Leadership Studies

Accelerated Graduate Pathway to Leadership Studies

BS in Leadership and Organizational Studies - Integrative Professional Studies

Certificate in Creative Leadership and Global Strategy

Certificate in Environmental Wellness & Outdoor Leadership

Certificate in Leadership Studies

Certificate in Lean Leadership

Concentration in Community Leadership & Civic Engagement

Minor in Leadership Studies

Minor in Military Leadership

Minor in Military Science

LOS Course Descriptions

Natural and Applied Sciences

Accelerated Graduate Pathway to Occupational Therapy

BA in Natural and Applied Sciences

BA in Natural and Applied Sciences - Elementary Teacher Education

BA in Natural and Applied Sciences - Secondary Teacher Education

NAS Course Descriptions

Social and Behavioral Sciences

BA in Social and Behavioral Sciences

Certificate in Public Health

Certificate in Regulatory Ethics

Concentration in Community Response and Mental Health - Social and Behavioral Sciences

Concentration in Counseling - Social and Behavioral Sciences

Concentration in Early Childhood Studies - Social and Behavioral Sciences

Concentration in Public Health

Minor in Early Childhood Studies

Minor in Public Health

Minor in Regulatory Ethics

SBS Course Descriptions

Course Descriptions

College of Management and Human Service

CMHS Overview

Business

Business Overview

Centers

Accelerated Graduate Pathway to MBA

BS in Business Administration - Accounting Major

BS in Business Administration - Finance Major

BS in Business Administration - General Management Major

BS in Business Administration - General Management Major with Entrepreneurship and Small Business Track

BS in Business Administration - General Management Major with General Management Track

BS in Business Administration - General Management Major with International Business Track

BS in Business Administration - General Management Major with Risk Management and Insurance Track

BS in Business Administration - General Management Major with Sustainable Business Track

BS in Business Administration - Marketing Major

BS in Business Administration - Sport Management Major

Certificate in Accounting

Certificate in Accounting
Education and Human Development

School of Education and Human Development Overview

Centers/Programs

Athletic Coaching
  Certificate in Athletic Coaching
  Minor in Athletic Coaching
  Course List

Extended Teacher Education Program (ETEP)
  Accelerated Pathway to M.S.Ed. in Teaching and Learning (ETEP)
  Course Descriptions

Montessori Early Childhood Education
  Course Descriptions

Teacher Education
  Elementary Teacher Education
  Secondary Teacher Education
  Minor in Educational Studies

SEHD Course Descriptions

Muskie School of Public Service

Muskie School Overview

Geography-Anthropology
  Geography-Anthropology Overview
  Accelerated Graduate Pathway - Geography-Anthropology to Policy, Planning, and Management (MPPM)
  BA in Geography-Anthropology - Elementary Teacher Education
  BA in Geography-Anthropology - Secondary Teacher Education
  BA in Geography-Anthropology, Specialization in Applied GIS and Geospatial Analysis
  BA in Geography-Anthropology, Specialization in Cultural and Natural Heritage Management
  BA in Geography-Anthropology, Specialization in Sustainable Cultures and Communities
  Certificate in Applied GIS
  Minor in Anthropology
  Minor in Archaeology
  Minor in Geography
  Minor in Planning and GIS
  Minor in Social Justice
  Minor in Tourism and Community Development
  Geography-Anthropology Course Descriptions
  Geography-Anthropology Course List

Tourism and Hospitality
  Tourism and Hospitality Overview
  BA in Tourism and Hospitality
  Certificate in Event Planning and Management
  Certificate in Tourism Development and Planning
  Minor in Event Planning and Management
  Minor in Tourism and Hospitality
  Course Descriptions
  Course Descriptions

Social Work
  Social Work Overview

USM Undergraduate Academic Catalog 2017-18
College of Science, Technology, and Health

CSTH Overview

Biological Sciences

CSTH Overview

BS in Biology - Secondary Teacher Education

BS in Biology: Biotechnology Concentration

BS in Biology: General Biology

BS in Biology: Human Biology Concentration

Certificate in Post-Baccalaureate Pre-Medical Studies

Certificate in Post-Baccalaureate Pre-Veterinary Studies

Minor in Biology

Minor in Ecology

Transfer Program in Pre-pharmacy: two-year, non-degree

Course Descriptions

Chemistry

Chemistry Overview

BA in Chemistry - Secondary Teacher Education

BA in Chemistry

BS in Biochemistry

BS in Chemistry

Minor in Biochemistry

Minor in Chemistry

Course Descriptions

Computer Science

Computer Science Overview

BS in Computer Science

Minor in Computer Science

Course Descriptions

Engineering

Engineering Overview

Accelerated Graduate Pathway - Engineering to Masters in Business Administration (MBA)

BS in Electrical Engineering

BS in Mechanical Engineering

Minor in Electrical Engineering

Minor in Mechanical Engineering

Transfer Program in Engineering

Course Descriptions

Environmental Science and Policy

Environmental Science and Policy Overview

Accelerated Graduate Pathway - Environmental Planning and Policy to MPPM

BA in Environmental Planning and Policy

BS in Environmental Science

BS in Environmental Science - Secondary Teacher Education

Certificate in Applied Energy

Certificate in Environmental Education

Certificate in Environmental Policy Analysis

Minor in Applied Energy

Minor in Environmental Policy

Minor in Environmental Science

Minor in Environmental Sustainability

Course Descriptions

Exercise, Health, and Sport Sciences

Exercise, Health, and Sports Sciences Overview

BS in Athletic Training

BS in Exercise Science

BS in Health Sciences

Course Descriptions

Certificate in Gerontology

Linguistics

Linguistics Overview

BA in Linguistics

BA in Social Work

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Welcome

Dear USM Student:

Welcome to the University of Southern Maine!

With over seventy undergraduate and graduate programs in the liberal arts and sciences, engineering and technology, health and social services, education, business, and more, you can be assured of finding an academic path that is right for you.

You can also be assured your experience at USM will be a journey filled with opportunity, excitement, and, yes, challenge. But know that our faculty and staff are here to maximize your opportunities and help address your challenges. Your journey is their journey, and your success is their top priority.

At USM, we are fundamentally committed to student success, providing a high-quality, accessible, supportive and affordable education that will prepare you to become a leader in your chosen field of study. You will be following in the footsteps of over 30,000 USM alumni who are already making an impact on our state, our region, and our nation.

I wish you the best of luck here at USM and look forward to seeing you on campus.

Glenn Cummings

President
The University

The University of Southern Maine, the state's only public comprehensive university, prepares students to play vital roles in the growth and improvement of the economic, civic, social, and cultural fabric of southern and central Maine, while providing engaged learning opportunities both inside and outside the classroom.

USM is a vital university dedicated to student success and the transformative power of public higher education. Serving the needs and aspirations of central and southern Maine communities, the University of Southern Maine prepares its students for personally and professionally fulfilling lives after graduation.

As a member of the University of Maine System, USM offers its nearly 8,000 students more than fifty undergraduate and twenty graduate programs in the College of Arts, Humanities, and Social Sciences; the College of Management and Human Service; the College of Science, Technology, and Health; Lewiston-Auburn College; and the University of Maine School of Law.

USM offers courses on its three campuses, online, via video conference, and at work sites across the state of Maine.

USM further addresses the broad range of student academic interests with its Winter term, Summer terms, as well as Early Studies program for high school students.

USM's faculty have a passion for communicating the excitement of learning and the joy of discovery. These women and men represent a wide range of knowledge and expertise; among them are Fulbright and Guggenheim Fellows, advisors to state and local governments, and authors of national note from a variety of academic disciplines.

USM's locations in central and southern Maine, viewed nationally as among the most livable regions in the country, offer a variety of educational, cultural, and recreational opportunities. The student body is the most diverse in Maine—approximately half are full-time students, sixty percent are women, and the average age of an undergraduate is twenty-seven years. This diversity of age, background, and purpose provides a lively, engaging environment for learning.

The University of Southern Maine is accredited by the New England Association of Schools and Colleges (NEASC). The nursing programs are accredited by the Commission on Collegiate Nursing Education (CCNE) and the Maine State Board of Nursing (MSBON). The athletic training education program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The exercise science program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The School of Education is accredited by CAEP, the Council for the Accreditation of Educator Preparation. The Masters of Rehabilitation Counseling is accredited by the Council on Rehabilitation Education (CORE), and the Masters in Clinical Mental Health Counseling as well as School Counseling are accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The School of Business is accredited by AACSB International—the Association to Advance Collegiate Schools of Business. The School of Social Work is accredited at the baccalaureate and masters level by the Council on Social Work Education. The Masters of Occupational Therapy program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE). Several departments are accredited through specialized agencies. The University of Maine School of Law is approved by the American Bar Association (ABA) and the Association of American Law Schools (AALS).

Expected Results of a University Education

Consistent with the educational mission of a comprehensive university, it is the aspiration of the faculty at the University of Southern Maine that students achieve the following results from their investments in higher education:

- They should possess the knowledge and skills necessary to enter the workforce or be admitted to graduate or professional school. Graduates of the University of Southern Maine should also possess the attributes and skills that lead to rich and fulfilling lives.
- They should be intelligent readers of their own culture and be able to use analysis and historical context to interpret cultural practices, artifacts, and documents of various kinds.
- They should appreciate the many ways of knowing, including the arts, the humanities, and the natural, applied, and social sciences; they should be aware of how these disciplines help define and shape the world; and they should understand the joy and wonder that can arise from rigorous inquiry leading to fresh discoveries and modes of expression in these fields.
- They should be able to appreciate basic ecological and physical processes, how their lives are affected by environmental trends and characteristics, and how each of us shares in the responsibility for sustaining the life forces, cycles, and processes upon which all life depends.
- They should understand the nature of at-risk behaviors and be able to make informed decisions about their own well-being.
- They should be able to communicate effectively, both orally and in writing, think critically and creatively, and use effectively both information technology and the skills of quantitative decision making.
- They should know how to work in teams, take responsibility, exercise leadership, and manage resources effectively.

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They should be aware of the world's complexities beyond their own set of experiences and assumptions, have an appreciation for other peoples' values and customs, and think effectively about ethical and social issues.

They should have the capacity for self-education so they can enjoy a lifetime of continuous learning.

They should be responsible citizens, committed to fostering the ideals of a democratic society: civic and social participation, free inquiry and informed decision making, and equal opportunity.
Disclaimers

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 does not discriminate on the grounds of race, color, religion, sex, sexual orientation (including transgender status and gender expression), national origin, citizenship status, age, disability, genetic information or veterans status in employment, education, and all other programs and activities. The following person has been designated to handle inquires regarding non-discrimination policies: Director of Equity & Compliance, Portland campus, voice—207-228-8304, TTY—711 (Maine Relay System).

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 class sizes, 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.
**Admissions**

Whether you're hoping to begin your undergraduate degree or you're embarking on graduate studies, the USM Office of Admissions can help you get started.

At USM, there are more than 100 areas of study among our majors, minors, and programs. Undergraduates can choose from over fifty majors, with many opportunities to learn through research, internships, and engagement with the community. For our graduate students, USM offers over twenty masters and three doctoral programs, along with more than twenty graduate certificates and certificates of advanced study.

With numerous programs offered completely or partially online, there are many ways to shape a brighter future through your studies at USM. As you begin that process, we're here to help.

**Undergraduate Admissions**

The University of Southern Maine (USM) is an academic community that welcomes applications for admission from qualified women and men with various backgrounds and interests regardless of race, color, religion, gender, sexual orientation, national origin or citizenship status, age, physical or mental disability, or veteran status. The University seeks candidates whose academic achievement and motivation indicate potential for success in an undergraduate program.

The Office of Admissions 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, process unofficial transfer credit evaluations, and arrange personal interviews and campus tours. Prospective students are encouraged to contact the Office of Admissions at 1 (800) 800-4USM, or (207) 780-5670, or admitUSM@maine.edu.

**Admission Requirements**

With the exception of early admission applicants, a high school transcript or GED/HiSET is required for admission to the University. Students who are home educated/home schooled should contact the Office of Admissions for information regarding the alternate documentation required for admission. Although secondary school preparation may vary, please find below the minimum college preparatory subjects required for regular admission to the University. In addition to these, further requirements may be imposed by individual University schools and colleges.

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Minimum Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 units</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3 units (Algebra I, Algebra II, and Geometry)</td>
</tr>
<tr>
<td>Science</td>
<td>2 units (with laboratory)</td>
</tr>
<tr>
<td>History/Social Science</td>
<td>2 units</td>
</tr>
</tbody>
</table>

**Highly Recommended College Preparatory Courses**

An optimal college preparatory course of study extends beyond the minimum requirements. Students who do best in college and graduate on time have the following high school course of study:

- Four years of English in courses that present a variety of readings (fiction, nonfiction, essays, memoirs, journalism) and emphasize expository and analytic writing about texts
- At least three years of laboratory science that include the study of biology, chemistry, and physics, offered as separate courses or as an integrated core. Science courses should include writing technical reports and quantitative representations and analyses of data as well as the traditional course content
- Four years of math that include Algebra I and II and Geometry; a college preparatory math course during the senior year
- Three years of history and social science that include reading primary as well as secondary texts, writing analytic and expository essays, and using quantitative social science data, in addition to the traditional course content
- Two years of study of one language other than English: foreign languages or American Sign Language (ASL)

**Additional requirements for majors in a particular college or program**

**College of Arts, Humanities, and Social Sciences:**

- School of Music
  - Successful completion of a music audition administered by USM
College of Management and Human Service:

School of Business

- Four units of mathematics, with one unit exceeding Algebra II

College of Science, Technology, and Health:

Engineering

- Laboratory chemistry and physics, and four units of mathematics, with one unit exceeding Algebra II

Mathematics

- Four units of mathematics, with one unit exceeding Algebra II

Sciences

- Three units of laboratory science.

Athletic Training, Exercise Science, and Health Science

- Laboratory biology and chemistry

Nursing

- Laboratory biology and chemistry. In addition, nursing candidates 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.

Admission Procedures, Policies

Application Requirements

- Completed application form, paper or online: University of Maine System application or the Common Application
- An application fee of $40, payable to the University of Southern Maine
- Official transcript sent directly from the high school, listing all courses and grades received to date or official GED/HiSET scores
- Official SAT/ACT scores, and sent directly from the testing agency or included on the official high school transcript. (If you have completed more than twelve college credits or are age twenty or older, these scores are not required.)
- Official Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) scores (may be required of those applicants whose primary language is not English)

First-Year Applicant Additional Requirements

- Completed school counselor statement and/or letter of recommendation from a teacher (not required if you are no longer in high school)

Homeschooled Students

Students who are satisfying any or all of their high school requirements in a homeschool setting should submit an official school transcript or an annual assessment of courses they have completed. A letter of recommendation may come from a family member, but must also come from someone outside the family.

Adult Students

Students who graduated from high school or earned a GED/HiSET more than three years ago are recommended to submit a current resume of life and work experiences. An electronic file of the resume can be sent to admitUSM@maine.edu.

Transfer Applicant Additional Requirements

- Official transcripts from all colleges attended, whether or not credit was earned, sent directly from each institution
- International college transcript evaluation: official evaluation of college-level transcripts from a USM-approved transcript analysis agency. For a list of approved agencies, go to http://usm.maine.edu/office-of-admissions/international-transcripts
- Nursing applicants only: supplemental application. Go to Nursing website for more information: usm.maine.edu/nursing

International Applicant Additional Requirements
• Official secondary school transcripts, exam certificates, and college-level transcripts including certified English translations; official transcripts from all colleges attended, whether or not credit was earned, sent from the institution
• International college transcript evaluation: official evaluation of college level transcripts from a USM-approved transcript analysis agency. For a list of approved agencies, go to http://usm.maine.edu/office-of-admissions/international-students
• Declaration of Finances accompanied by the appropriate financial documentation

Reactivating or Readmission Applicant Requirements

Students should only complete the Reactivation of Application/Readmission Application if one of the following two categories applies:

• Reactivation of Application: You applied to USM within the last year but did not enroll in classes as a degree (matriculated) student.
• Readmission: You received an undergraduate degree from USM and are pursuing a second undergraduate degree, OR you began your studies at USM as a degree (matriculated) student and stopped attending for five or more consecutive years.

Application Materials Should Be Sent To

University of Maine System Application Processing Center
PO Box 412
Bangor, ME 04402-0412

Colleges and universities that participate in electronic submission of transcripts can send official transcripts to edocs@maine.edu.

For a complete listing of application instructions, go to: usm.maine.edu/admit/application-instructions

Early Admission Applicants

Students who have completed their junior year of high school may apply for consideration of admission (as non-matriculated students) under the Early Admission Program. Admissions will consider high-achieving students who display both the intellectual ability and the social maturity to succeed in a university course of study.

To be eligible for admission, candidates must have completed a minimum of three years of college preparatory subjects in high school according to the general University admission requirements, and submit SAT or ACT test results.

Interested applicants will be required to submit the University of Maine System application in addition to an Early Admission Application. Early admission candidates may be required to have a personal interview with a member of the admission staff. High school students who enter the University of Southern Maine prior to graduation from high school are not eligible for federally funded financial aid and may not participate in intercollegiate athletics.

Early Admission applicants may apply for the fall semester only. Application forms must be submitted by April 15.

Priority Dates and Deadlines

Fall Semester
January 15  Transfer Nursing deadline
February 15  Priority filing application date
April 1  First-year Nursing deadline
May 1  Academic scholarship completed application deadline
July 1  Priority enrollment deposit date
International student application deadline

Spring Semester
November 15  International student application deadline
December 1  Priority filing application date
January 2  Priority enrollment deposit date

Summer Semester*
May 1  Priority filing application date
October 1  Accelerated Nursing deadline
January 15  Transfer Nursing deadline
February 15  First-year Nursing deadline

*For those who have earned a high school diploma or GED/HiSET by priority filing application date of May 1
Applications are reviewed throughout the year on a rolling admission basis. Although applications are reviewed on a rolling basis, 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 be made to enter the University in the fall, spring, or summer semester. Offers of admission may be revoked because of unsatisfactory performance in the final semester of high school or college.

Admission to the University is offered for a specific semester. Anyone choosing to defer their offer of admission may do so by submitting a written request to the Director of Admissions prior to the start of the semester and paying a $100 non-refundable enrollment deposit. Deferments are granted for up to one year. Students attending another college are not allowed to defer.

**Admission Decisions**

The University recognizes that its prospective students may come with differing academic backgrounds and/or with significant time having elapsed since completion of secondary school. The following categories of admission exist to accommodate this wide range of applicants.

**Regular Admission**

Applicants whose academic backgrounds demonstrate the ability to pursue regular, entry-level coursework may be granted regular acceptance to the University. This admission 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.

**Enrollment as an Undeclared Major**

Applicants who are undecided regarding their major field of study may request admission as an "Undeclared Major." Undeclared students are assigned an advisor in the Academic Advising Office to assist with appropriate course selection and academic planning while exploring 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.

**Admission to the Admissions Pathway Program**

Students applying to the University who meet regular admission requirements but whose TOEFL or IELTS scores fall below the required level may be eligible for admission to the University through the Admissions Pathway Program offered through the ESOL Department.

**Admission to the Intensive English Language Program with Conditions**

The Intensive English Language Program with Conditions is for students whose first language is not English and who are seeking admission to USM. Students are considered for this program if they are academically qualified, may or may not have taken the TOEFL or IELTS exam, and still need a semester or two of English language instruction. Students will be admitted with the condition that they successfully complete at least one semester of Intensive English courses prior to enrolling in other courses offered at USM.

**Enrollment as a Non-matriculated Student**

The University encourages members of the local community to take advantage of its diverse course offerings. Non-matriculated students (those not enrolled in a degree program of study) may take regular credit courses for self-interest and enrichment. Non-matriculated students are enrolled each semester on a space-available basis and are not eligible for student financial aid awards, guaranteed student loans, veteran's benefits, campus housing, or participation in intercollegiate athletics. Interested persons are invited to contact Office of Registration and Scheduling Services or the Academic Advising Office.

Non-matriculated students are required to meet the same academic progress standards as matriculated students. In order to apply degree credits earned at the University of Southern Maine, the student must be admitted into a degree program as a result of the application process.

**Transfer Admission**

Applicants who have attended a postsecondary institution beyond the secondary school level are considered transfer students and must submit official copies of collegiate and secondary school records. SAT or ACT test results are not required for students who have completed more than 12 college credits or are age 20 or older. Quality points and grade point average do not transfer.

Students applying for transfer from institutions of higher education must have a grade point average of at least a 2.0 (on a 4.0 scale) to be considered for admission. Some academic programs require higher grade point averages. Transfer credit may be awarded for coursework completed at a regionally accredited institution of higher education. Courses graded C- or higher are considered for transfer credit.

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 college for consideration of coursework earned from institutions that were candidates for accreditation.

From within the University of Maine System

USM Undergraduate Academic Catalog 2017-18
University of Maine System Transfer Policies and Practices

1. Transferring students must provide official transcripts reflecting all previous post-secondary coursework.
2. An evaluation of transfer credit will be prepared by the Transfer Officer for each accepted transfer student, and will be available in the student's MaineStreet Student Center. The transfer student should meet with an academic advisor at the receiving university to review how the transfer credit will be applied toward the student's degree program. Transfer evaluations will be prepared based on the following principles:
   1. Within the University of Maine System. Undergraduate courses completed with a C- or higher, including P grades, will transfer from one UMS university to another. Grades will be recorded on the student's transcript but not computed into the cumulative GPA.
   2. Outside the University of Maine System. Credit earned with a C- or higher in courses from regionally accredited colleges/universities outside the UMS will be considered for transfer. Pass-fail courses taken outside the UMS must have "pass" defined as a C- or higher in order to transfer.
   3. Generally, course grades do not transfer from one college/university to another. Semester and cumulative GPAs reflect only those courses taken at the home university. Students in cooperative degree programs should inquire about any exceptions that may apply.
   4. Coursework defined as developmental by the university to which the student is transferring will not be awarded degree credit. Developmental courses are considered preparatory to college-level work, and will not count toward a degree.
   5. Courses from colleges and universities outside the United States will be accepted for transfer consistent with established University policies and practices.
3. Credit may be awarded for high school Advanced Placement (AP) exams, College Level Examination Program (CLEP) exams, or college-level knowledge gained through life experience (e.g., prior learning, such as military or other training) when validated through the approved campus processes.
4. Students with coursework from non-regionally accredited schools may inquire into the possibility of validating some or all of their learning through testing and/or approved university credit for prior learning processes. Students interested in this option should contact the Transfer Officer for more information.
5. If a student has concerns about the transfer evaluation, the student should contact the Transfer Officer at the receiving university. After such conferral, the student may appeal through the academic appeals process at the receiving university.
6. Transfer students should consult the University's catalog and/or meet with an appropriate advisor to determine requirements regarding the number and distribution of credits that must be completed at the University to earn the desired degree.
7. Students must meet the established requirements of the academic program or college into which they are transferring. Transfer credits do not necessarily count toward these requirements.
8. Students may also confer with the Transfer Officer and/or an academic advisor regarding possible flexibility in the application of their credits to their program, through approved campus processes.
9. Current UMS students who plan to take courses at another university, inside or outside of the UMS, are strongly encouraged to seek prior approval of their plans from the UMS university where they are matriculated.

Transfer Credit Evaluation

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 at the time of attendance, grades achieved in previous coursework, and comparability of courses taken with courses at the University. 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 Office of Transfer Affairs 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 Office of Transfer Affairs within one year of the completion of the evaluation. At that time, the evaluation becomes permanent and will not be changed.

Maine Community College Articulation Agreements

The University of Southern Maine has formal articulation agreements in certain academic disciplines with the Maine Community College System. In addition, USM participates in AdvantageU and ConnectED Pathways which are guaranteed admission programs for qualified Maine Community College students who file participation forms with their Community College. These agreements facilitate transfer to USM for graduates from specific associate degree programs. For more information, students should contact the Transfer Coordinator at their Maine Community College, or the USM Office of Admissions.

Placement Exam

Placement Examination Program
SAT and ACT scores are used for course placement in mathematics. All newly admitted degree candidates whose SAT mathematics score is below 570 or ACT mathematics score is below 22 must take the math placement examination. Only SAT or ACT test results administered within the past five years are valid. TOEFL and IELTS scores are used for course placement in English. Only TOEFL and IELTS test results administered within the past three years are valid. Students who transfer credits from another institution may meet college readiness in mathematics as determined by the Office of Transfer Affairs. Non-matriculated students are encouraged to take the placement examination and should contact the Office of Academic Assessment for details. For more information on the Placement Examination Program, go to usm.maine.edu/assessment. Note: The placement exam results will not be used in place of SAT/ACT test results for admission purposes.

Prior Learning Assessment

The Office for Prior Learning Assessment (PLA) believes that students should be rewarded for knowledge acquired outside the traditional classroom if it fulfills the academic criteria set forth and evaluated by the USM faculty.

PLA is a process that builds a bridge between students' practical, applied learning experiences and their theoretical, college-level knowledge. There are several pathways across this bridge: testing options, credential reviews, military evaluations, and academic portfolio development, paving the way to academic credit where appropriate. Proof of competency rests with the student. Transcripts older than twenty years cannot be used for credit. For further details regarding credit options, students should contact the Office for Prior Learning Assessment at usm.maine.edu/pla.

Advanced Placement

The University participates in the Advanced Placement program (AP) of the College Board. AP exams are given in secondary schools. For credit consideration at USM, an official AP transcript and a minimum score of 3 are required.

International Baccalaureate

The University recognizes IB and is committed to considering credit for students who score 5 or better on the Higher Level exams. No credit is offered for Standard Level IB exams. An official score transcript must be sent from the IB Organization to the Office for Prior Learning Assessment for evaluation.

Standardized Examinations

College Level Examination Program (CLEP) and DANTES exams are used for either course-equivalency or elective credits. For credit consideration at USM, an official transcript must be submitted and cut-off scores must be achieved. Several Excelsior College exams are also recognized for credit. PLA also offers credit for 50 language exams through an external testing program. For more information on all these options, visit the PLA website at usm.maine.edu/pla.

Academic Portfolio Assessment Program

The academic portfolio is a formal collection of evidence in support of a person's claim for college credit. The process is reflective and challenging, yet rewarding. To earn course equivalency credit or elective credit with an academic department through portfolio assessment, the candidate's documentation must prove understanding and learning competency, subject to evaluation by appropriate faculty. Academic portfolio assessment may also be used to earn general elective credit, which can be earned regardless of one's academic major. Applicability of credits toward meeting graduation requirements varies by school and college within the University.

Credential Review

Credential review requires original and current documentation for individualized learning situations, submitted for college credit, reviewed by appropriate USM faculty or in consultation with national guidelines. All credentials are considered on a case-by-case basis. PLA reviews professional certifications, educational and training courses, and certain college-level experiential learning that may have earned selected licenses, certificates, and/or credentials for organizations outside the University. Credit is not awarded for attendance certificates.

Credit for Military Service

Students who have been active members of the armed services may qualify for credit. Official service documents are required for credit consideration.

Challenge Examination Program

Challenge exams may be developed individually by faculty members for USM students in coordination with the Office for Prior Learning Assessment. These exams are used selectively and may result in the student earning equivalency course credit.

Pre-professional 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.

- Students must be able to write clearly. They should take upper level, writing-intensive courses in English or other fields.
- Students must be able to think clearly and critically. Courses in philosophy, science, and language will be helpful.
- Students should understand the social and political context within which the law exists. Courses in sociology, history, and political science
  are appropriate.
- 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.

Students should meet with USM's pre-law advisor early in their undergraduate careers to discuss the legal profession and design a path to law
school admission. Students should also become active members of USM's Pre-Law Society. For more information, contact Ronald Schmidt,
associate professor, at (207) 780-4581 or email rschmidt@maine.edu.

Pre-Pharmacy Program

A two-year, non-degree program of study is offered to prepare students to apply to a four-year doctoral program in pharmacy (a 2 + 4 program).
Most schools and colleges of pharmacy require 60-75 credits in their two-year pre-pharmacy phase, depending on the number of general
education credits required. Individual programs vary in the general education courses they require, e.g., economics, social science, humanities,
and fine arts, so students should consult those programs accordingly. The pre-pharmacy concentration is a time-intensive program that students
will need to commit to upon entering the University. Students are encouraged to take summer courses to reduce the number of credits taken each
semester. If students choose not to take summer courses, they should consider extending the program to three years. If they do well in this
program of study, they will be competitive with students from other universities applying for entry into professional pharmacy programs. If
students decide not to transfer after two years, they will be well along the path toward earning a B.S. in biology degree. For further information
contact David Champlin, Associate Professor, 476A Science Building, "C" Wing, Portland, (207) 228-8349 or email champlin@maine.edu.

Pre-Medical, Pre-Dental, Pre-Veterinary

USM, like most universities, does not have a major in pre-medical, pre-veterinary, or pre-dental studies. USM offers a degree in biology with a
concentration in human biology. By completing the concentration in human biology a student will have completed all the required courses for
admission to professional school and many of the recommended courses. Pre-veterinary students should complete the general biology degree.
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, e.g., Emergency Medical Technician
training or volunteer work in an emergency room.

As minimum entrance requirements, most professional schools recommend:

- One year of college biology with labs (BIO 105, 106; BIO 107)
- One year of general chemistry with labs (CHY 113, 114; CHY 115, 116)
- One year of organic chemistry with labs (CHY 251, 252; CHY 253, 254)
- One year of physics with labs (PHY 111, 114 or PHY 121, 114)
- One semester of mathematics (statistics recommended)

Some recommended courses are:

- Psychology (PSY 101)
- Genetics (BIO 201)
- Microbiology and lab (BIO 311, 282)
- Comparative or Vertebrate Anatomy (BIO 205)
- General Physiology and lab (BIO 401/402)
- Human Physiology and lab (BIO 221, 112; BIO 223, 114)
For more information, please contact David Champlin, Associate Professor, 476A Science Building, "C" Wing, Portland, (207) 228-8349 or email champlin@maine.edu.

New England Regional Student Program (RSP)

In cooperation with the New England Board of Higher Education (NEBHE), the University offers undergraduate and graduate 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 (RSP) for 2016—17. Further information is available at nebhe.org/tuitionbreak.

Undergraduate Programs

<table>
<thead>
<tr>
<th>Program</th>
<th>States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Technical Leadership</td>
<td>CT, MA, NH, RI, VT</td>
</tr>
<tr>
<td>Athletic Training</td>
<td>RI</td>
</tr>
<tr>
<td>Criminology</td>
<td>NH, RI</td>
</tr>
<tr>
<td>Environmental Planning and Policy</td>
<td>VT</td>
</tr>
<tr>
<td>General Management (with concentration in Risk Management and Insurance)</td>
<td>CT, MA, NH, RI, VT</td>
</tr>
<tr>
<td>General Management (with concentration in Sustainable Business)</td>
<td>CT, MA, NH</td>
</tr>
<tr>
<td>Liberal Studies: Humanities</td>
<td>MA</td>
</tr>
<tr>
<td>Linguistics</td>
<td>RI</td>
</tr>
<tr>
<td>Linguistics (with concentration in American Sign Language)</td>
<td>CT, MA, VT</td>
</tr>
<tr>
<td>Musical Theatre</td>
<td>MA</td>
</tr>
<tr>
<td>Natural and Applied Science</td>
<td>CT, VT</td>
</tr>
<tr>
<td>Recreation and Leisure Studies (with concentration in Community Recreation)</td>
<td>RI, VT</td>
</tr>
<tr>
<td>Recreation and Leisure Studies (with concentration in Therapeutic Recreation)</td>
<td>MA, RI, VT</td>
</tr>
<tr>
<td>Technology Management</td>
<td>RI, VT</td>
</tr>
<tr>
<td>Technology Management (with concentration in Construction Management)</td>
<td>MA, NH</td>
</tr>
<tr>
<td>Tourism and Hospitality</td>
<td>CT, RI</td>
</tr>
</tbody>
</table>

Graduate Programs

See listing in Graduate Catalog at usm.maine.edu/catalogs.

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 twelve or more credits, to show proof of immunity against measles, mumps, rubella, diphtheria, and tetanus before registering for classes. Immunization Records should be sent to: Shared Processing Center, P.O. BOX 412, Bangor, ME 04402. Immunization records must be on file with the University before students will be allowed to register for classes. Specific information about immunization requirements can be found at usm.maine.edu/health.

Email Communication Policy

In order to meet the academic and administrative needs of the University community, the University has established email as an official and primary means of communication to its students, accepted and/or enrolled. In some cases, email may be the only form of communication. Official University assigned email accounts are created for all accepted and/or enrolled students usually in the form of FirstName.LastName@maine.edu. Students are responsible for reading all information sent to them via their University assigned email account. The University has the right to expect that such communications will be received and read in a timely fashion.

It is imperative that students understand that a majority of University information will be communicated to them via their assigned email account. Confidential information will not be sent via email. If the University needs to convey sensitive information to the student and the information cannot be conveyed using the password-protected student self-service venue, the University will send the information via United States Postal Service.

The University reserves the right to notify students via e-mail when any action on the student's part may be necessary. Some actions can be accomplished using the University's Student Information Systems, made available through special password-protected links. Students should activate their assigned email accounts at mail.maine.edu. For assistance in activating your University account, visit usm.maine.edu/computing/computing-help-desk or contact the HelpDesk at (207) 780-4029, or usm-helpdesk@maine.edu. The complete Email Communication Policy can be found at usm.maine.edu/computing/email-communication-policy.
Student Financial Services

Financial Aid

The Student Financial Services office administers, coordinates, and recommends a variety of programs of financial aid including grants and scholarships to enable students who lack adequate financial resources to attend USM. The U.S. Department of Education offers eligible students low interest student loans. Some employers offer assistance in the form of tuition reimbursement, flexible scheduling, or paid educational leaves. Scholarship assistance may also be available from organizations, clubs, or religious groups of which the student or his or her family is a member. The University is also approved by the Veterans Benefits Administration for payment of veterans' benefits. During the most recent academic year, approximately $75 million in financial aid was available to USM students.

Student Financial Services offices are located in Bailey Hall in Gorham, in Luther Bonney Hall in Portland, and at the Lewiston-Auburn Campus. For more detailed information about the application process, the funds available and the priority filing dates and deadlines, visit us on the Web at http://usm.maine.edu/student-financial-services.

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 6 credit hours for a semester. Aid can be granted only to U.S. citizens and eligible non-citizens. Students must also be registered with the Selective Service if you are a male, at least 18 years old, and born after December 31, 1959. If you believe you are not required to be registered, please call the Selective Service Office for information regarding exemption.

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 or her family are expected to contribute, when able, from income and assets to meet college costs.

The deciding factor in the establishment of a student's eligibility for most financial aid programs is that of documented financial "need"; that is, when an applicant has been determined to have insufficient family resources to meet the cost 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 required by the U.S. Department of Education.

Aid applicants must also meet standards of Satisfactory Academic Progress in their chosen course of study. These standards are set by the University in accordance with federal financial aid regulations and are in addition to the requirements established by the dean or director of an academic program. A full explanation of these standards may be found at the following website: http://usm.maine.edu/student-financial-services.

A student must not owe a refund on a federal grant or be in default on a federal educational loan. Students who are in default or owe a repayment are not eligible for assistance.

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

Satisfactory Academic Progress for Continued Financial Aid Eligibility

Every school participating in the federal student financial aid programs must monitor its financial aid recipients to ensure that they are meeting satisfactory progress standards. Federal regulations mandate that the school's satisfactory progress policy must include both a qualitative measure (such as the use of cumulative grade point average) and a quantitative measure (such as a maximum time frame for completion) of the student's progress. While the qualitative measure is determined and monitored by the academic standards of the institution, the quantitative measure administered by the Financial Aid office is used to determine the number of credit hours completed when compared to those attempted. To quantify academic progress, the school is required to set a maximum time frame in which a student is expected to finish a program. For undergraduate and graduate programs, the maximum time frame may not exceed 150 percent of the published length of the program, as measured in credits attempted.

To ensure that the student is making sufficient progress throughout the course of study, the school must divide the program into equal evaluation periods called increments. Once the school defines the length of each increment, the school must compare the number of credits the student attempted with the number of credits the student successfully completed. This calculation enables the school to determine whether the student is progressing at a rate that will allow him or her to finish the program within the maximum time frame. As is the case in USM's progress policy, a school is permitted to apply a more lenient completion standard in the student's first academic year and then gradually increase the completion standard for each subsequent academic semester. USM's satisfactory progress policy explains how withdrawals, grades of incomplete, courses
that are repeated, noncredit remedial coursework, and other attempted coursework that is not completed affect the satisfactory progress determination. Procedures have been established that enable a student to appeal a determination that finds him or her not to be making satisfactory progress. The quantitative and qualitative standards used to judge satisfactory progress must be cumulative and include all periods of the student's enrollment. Even periods in which the student did not receive financial aid funds must be counted. If the student does not meet the school's standards for satisfactory academic progress, he or she is not allowed to receive further funds from federal student aid programs. For specific details regarding satisfactory academic progress for financial aid, please refer to the USM Student Financial Services website at http://usm.maine.edu/student-financial-services.

**Additional Requirements for Graduate and Doctoral Students**

To be eligible for federal financial aid (including deferment of student loans) a matriculated graduate or Ph.D. student must meet one of the following conditions:

- Is enrolled in at least 6 academic graduate credits
- or
- Has obtained a certificate of adequate academic progress from the chair of the committee, indicating that the student is continuing to actively pursue studies leading to the master's or doctoral degree, and is registered for GRS 701. (Note: This applies to students taking anything less than six academic credits.)

GRS 701 is a 1-credit course that permits doctoral degree candidates registered for less than six credits to retain eligibility for financial aid, University-funded fellowships, scholarships, graduate assistantships, student health insurance, loan deferment, visa compliance, and access to University services, including USM computers, libraries, and recreational facilities. Prerequisites include passing qualifying exams, receiving certification of adequate academic progress from the program chair and dissertation/capstone chair, and obtaining approval from the Office of Graduate Studies.

**Application Procedures**

To apply for financial assistance from the University of Southern Maine, you should file your Free Application for Federal Student Aid (FAFSA) or your Renewal FAFSA on the Web at http://www.fafsa.gov.

Students are encouraged to apply for assistance as early as possible. To ensure a fair distribution of funds, a priority filing date is established. To meet USM's deadline, applicants must ensure that their FAFSA data is received at the institution by February 1. Students should submit the FAFSA online at http://www.fafsa.gov by January 15 to meet the USM February 1 deadline.

Applications are accepted after the priority filing dates, although the type and amount of aid offered may be reduced subject to funding limitations. Applicants who file after the priority filing date will probably receive delayed notification and may not have the funds available in time to pay semester bills.

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

**How Financial Aid is Allocated**

The University begins reviewing student aid applications in early spring. Once a student is accepted, all necessary financial aid application materials are received, and the University is told how much federal aid it will have for students, a notice of eligibility is sent. If a student receives outside scholarship funds, the amount of aid from the University may have to be reduced.

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

Students are offered aid in a package which may consist of grants and/or loans 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 office of Student Financial Services: a change in the number of credit hours attempted; changes in family circumstances; the receipt of financial aid from sources other than the Student Financial Services office.

**Types of Aid Available**

**For All Students**

- **Federal Work Study** This is a program funded by the University and the federal government. A student's financial need governs the amount that can be earned.
- **Federal Direct Unsubsidized Loans** This program provides access to borrowing for both students who do and do not qualify for need-
based assistance. The student is responsible for the interest as it accrues.

- **Alternative Loans** These are private, credit-based loans which provide long-term financing options for qualified students or families. Additional information about these programs may be obtained from the Student Financial Aid Office or online at [http://usm.maine.edu/student-financial-services](http://usm.maine.edu/student-financial-services).

- **North American Indian Programs** 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. For additional information, contact the Wabanaki Center at (207) 581-1417. Visit the Office's website at [http://www.naps.umaine.edu](http://www.naps.umaine.edu).

- **Veterans Educational Benefits** Students eligible for educational assistance from the Veterans Benefits Administration are encouraged to contact the Veterans Affairs Office thirty days before the start of each semester.

**For Undergraduate Students**

- **Federal Pell Grants** This is a federally funded program to help needy students. In 2017-2018 grants will vary between $606 and $5,920 per academic year.

- **Federal Supplemental Educational Opportunity Grants** This is a federally funded program to help needy students. Grants range from $100 to $4,000.

- **University and Miscellaneous Grants** These are funded by the University and private donors. Awards have ranged from $100 to $4,000 and are given on the basis of financial need.

- **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 or her education or drops to below 6 credit hours of enrollment. 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.

- **Federal Direct Subsidized Loans** This program, administered by the federal government, allows students to secure low-cost loans. Eligibility for subsidized Direct Loans is based on demonstrated financial need.

- **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 $400 to $3,300.

- **Federal Direct PLUS Loans** Parents of dependent undergraduate students may borrow a Direct PLUS loan to help cover the student's college costs. A student's dependency status and cost of education are determined using US Department of Education criteria. Additional information and the application process is available at [http://usm.maine.edu/student-financial-services/federal-direct-plus-loans](http://usm.maine.edu/student-financial-services/federal-direct-plus-loans).

- **Merit Scholarships** Merit awards are based on academic achievement and promise, special talents, potential to make unique contributions to the University community, and USM’s commitment to expanding the pluralistic character of its student body. Further information may be obtained from the Admissions Office.

**For additional information**

Contact the Student Financial Services office, University of Southern Maine, Bailey Hall, College Avenue, Gorham, Maine 04038 or telephone (207) 780-5250, or online at [http://usm.maine.edu/student-financial-services](http://usm.maine.edu/student-financial-services).

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

**Financial Information**

Each year in May, as part of the annual budget process, the Chancellor shall present recommended tuition, fee, and room and board rates to the Board of Trustees for approval. (Tuition and fee rates become effective after the end of the summer term.) The Board may alter any of these rates at its discretion. A student acknowledges this reservation by applying for admission or registering for courses.

Tuition charges are calculated by multiplying the number of credit hours attempted by a rate established by the Board of Trustees. Courses being audited are included in this calculation. The type of tuition is determined by a student's career/degree level. Undergraduate students taking graduate courses will be charged at the undergraduate rate; graduate students taking undergraduate courses will be charged at the graduate rate.

**Tuition**

Tuition rates for the 2017-2018 academic year:

**Undergraduate Tuition Charges Per Credit**
Hour

<table>
<thead>
<tr>
<th>Status</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maine Resident</td>
<td>$262</td>
</tr>
<tr>
<td>Non-Maine Resident</td>
<td>$689</td>
</tr>
<tr>
<td>New England Regional Student Program</td>
<td>$419</td>
</tr>
<tr>
<td>Canadian Resident</td>
<td>$419</td>
</tr>
<tr>
<td>E-tuition (for non-Maine residents in fully online programs only)</td>
<td>$327</td>
</tr>
</tbody>
</table>

Additional information about Law tuition and fees can be found at [http://mainelaw.maine.edu/admissions/financing-your-education/tuition-and-fees/](http://mainelaw.maine.edu/admissions/financing-your-education/tuition-and-fees/).

**New England Regional Student Program** In cooperation with the New England Board of Higher Education, the University offers certain programs of study at a reduced tuition rate for qualified candidates from the New England states. Because the listing of available programs can vary from year to year, candidates should consult the information provided at [http://www.nebhe.org/programs-overview/rsp-tuition-break/overview/](http://www.nebhe.org/programs-overview/rsp-tuition-break/overview/). Details are also available at University admissions offices.

**Fees**

Fees for the 2017-2018 academic year:

**For All Students**
- **Community Standards Fee** A $35 fee is charged to any student who is sanctioned under the Conduct Code.
- **Course Fees** To defray the costs associated with some courses, additional fees ranging from $5 to $360 are assessed. These fees are associated with courses requiring additional instructional resources.
- **Distance Learning Technology Fee** Students registered at University College Centers and sites are charged a $6 per credit hour technology fee.
- **Insufficient Funds Fee** A $25 fee is charged when a check is returned due to insufficient funds or when a credit card payment is declined.
- **Payment Plan Fee** A $30 fee is charged to students enrolling in a University three-, four-, or five-installment payment plan.
- **Late Payment Fee** A $50 fee (to a maximum of $200) is charged to student accounts not paid when bill is due.
- **Online Course Enrollment Fee** Students registering for online classes are charged a $25-per-credit-hour fee for all blended and online courses to help pay for additional student services including tutoring, advising, and library services. The fee also provides for faculty support services, technology infrastructure, maintenance and upgrades.
- **Student Health and Counseling Fee** A mandatory $80 health fee is charged to students registered for six or more credits of instructional activities emanating from the Portland and/or Gorham campus for fall and spring semesters. Such activities include independent study, internships, field experiences, etc. Credits for regular classes taken at off-campus locations are omitted when determining this fee. Optional coverage is available to students who register for fewer than six credits. For more information about the services covered by the student health and counseling fee and the cost of enrolling, contact University Health and Counseling Services.
- **Student Health Insurance** All undergraduate students enrolled in 9 or more credit hours and graduate students enrolled in 6 or more credit hours are required by the University of Maine System to maintain health insurance coverage. Additional information about the health insurance requirement is available from University Health and Counseling Services at 207-780-5411 or at [http://usm.maine.edu/uhcs](http://usm.maine.edu/uhcs).
- **Summer Session Administration Fee** Students registering for Summer Session classes are assessed a one-time $35.00 fee to support summer administrative costs.
- **Transportation Fee** A mandatory semester fee is assessed to all students registered for courses that are held on the Portland and/or Gorham campuses. It funds parking and other transportation-related projects, as well as busing between campuses. It eliminates the need to pay for a required parking permit.

<table>
<thead>
<tr>
<th>Credits Attempted</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1-5.9</td>
<td>$55</td>
</tr>
<tr>
<td>6-11.9</td>
<td>$83</td>
</tr>
<tr>
<td>12+</td>
<td>$110</td>
</tr>
</tbody>
</table>

- **Lewiston-Auburn College Parking Fee** A mandatory $3-per-credit-hour fee is assessed to students registered for courses held on the LAC campus.
- **Unified Fee** A mandatory $29-per-credit-hour fee is assessed to cover fixed costs of providing educational services not already supported by tuition charges.

Additional Undergraduate Fees

- **Activity Fee** Students taking undergraduate courses are assessed a mandatory student activity fee. The amount charged depends on the...
number of credit hours attempted. Students registering for undergraduate courses taught at Lewiston-Auburn College or University of Maine System Off-Campus Centers are charged $1.50 per credit hour.

<table>
<thead>
<tr>
<th>Credits Attempted</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5.9</td>
<td>$19</td>
</tr>
<tr>
<td>6-11.9</td>
<td>$37</td>
</tr>
<tr>
<td>12+</td>
<td>$55</td>
</tr>
</tbody>
</table>

- **Application Fee** A $40 fee is charged when a student applies for admission to an undergraduate program. (As of July 1, 2017, USM is no longer requiring an application fee for Maine Residents applying for undergraduate or graduate admission.)
- **Enrollment Fee** A mandatory $175 fee is charged to newly admitted undergraduate students. This fee is charged only once.
- **Prior Learning Assessment Fee** Charges for exams offered by the Office of Prior Learning Assessment can be found at [http://usm.maine.edu/prior-learning-assessment](http://usm.maine.edu/prior-learning-assessment).
- **Reactivation/Readmission Fee** A mandatory $20 fee is charged to students who have previously applied for admission but did not complete the admission process or who leave for several years and wish to become degree candidates again.
- **Specialty Accreditation Fee** A $26-per-credit-hour fee is charged to students enrolling in upper-level undergraduate courses (300-400 level) offered by the School of Business. Students enrolling in graduate level courses will be charged $67-per-credit-hour. A $17-per-credit-hour fee is charged to students enrolling in lower-level undergraduate (100-200 level) courses offered by the School of Business. The fee will support research and scholarship activities that help assure the school's continued accreditation by an international organization.

### Room and Board

**USM Meal Plans**

The University offers several different resident student meal plans. Information about resident meal plans is available from the Department of Residential Life. A description of meal plan choices and current rates can be found at [http://usm.maine.edu/residential-life](http://usm.maine.edu/residential-life).

**Commuter Meal Plans**

Commuter meal plans allow students to purchase food at a discount. Information about the plans is available from the Department of Residential Life, Dining Services, and Campus Card Services.

**Room**

University residence halls are located on the Gorham campus. Information about housing is available from the Department of Residential Life, 100 Upton Hall, Gorham (780-5240). While the student is billed by the semester, the housing contract is for the full academic year. A description of room types and current rates can be found at [http://usm.maine.edu/residential-life](http://usm.maine.edu/residential-life).

**Other Expenses**

**Books and Supplies** Students are responsible for the purchase of books and supplies. Payment is made at the time of purchase. A list of course materials can be found at [https://usm.maine.edu/bookstore](https://usm.maine.edu/bookstore).

**Deposits**

**For Undergraduate Applications**

When a student is notified of acceptance into a University undergraduate degree program, a $100 enrollment deposit is due by May 1 for the fall semester, January 2 for the spring semester, and April 1 for the summer term. If admitted after these dates for the corresponding semester or term, a deposit is due within fifteen days. The deposit will be applied to tuition charges.

The deposit will be forfeited if the student notifies the Office of Admissions of their intention to withdraw after May 1 (fall semester), January 2 (spring semester) or April 1 (summer term).

**For Students Living in Campus Housing**

Students who are approved for on-campus housing must pay a $75 room deposit. Usually the deposit is applied to the fall bill. If a student notifies Residential Life in writing that housing is not desired before June 1, the deposit will be refunded. If notification is received after June 1, the deposit is forfeited. Students applying for spring housing, should contact Residential Life for payment and refund deadlines.

**Payment Policies and Procedures for all students**

**Billing**
Students can access MaineStreet billing statements, specific semester due dates, and other important account information at https://usm.maine.edu/student-financial-services The University is not obligated to mail paper billing statements.

It is critical that official University email accounts are checked often by all students. In many cases, it will be the only means of receiving important information from Student Financial Services and other University departments.

It is the student's responsibility to ensure that all addresses recorded on MaineStreet are correct.

Payment options:

- **ACH (electronic check)** ACH payments are made online. A fee is not charged for this type of payment.
- **Cash** Cash payment may be made at the Student Financial Services Office or at an off-campus center. Cash should not be mailed.
- **Checks** Paper checks should be made payable to the University of Southern Maine. The student's name and student I.D. number should be shown on the check.
- **Credit Cards** USM uses an outside vendor to process credit card payments. The student is charged a convenience fee by the vendor. All credit card payments are made online.
- **Installment Payment** The University offers a variety of payment plans. Information about these plans is available from Student Financial Services.
- **Outside Scholarships** A student must notify Student Financial Services 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 Financial Services written authorization from the agency/employer prior to the payment due date. No conditional payment offers will be accepted. Please note: if, for any reason, the third party does not make payment, the student is liable for all charges.
- **Deferred Tuition Plan** If your employer offers tuition reimbursement benefits, USM now offers a deferred tuition plan that lets you take classes and remit payment within 30 days of the end of the term.

Each semester, the University establishes specific dates payment is due and notifies students of these dates on bills, through University publications, and at https://usm.maine.edu/student-financial-services

All charges posted to student accounts after the posted semester or term payment due date must be paid when incurred.

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 allowed. The University 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 and unpaid charges or fines owed to other University departments.

**Financial Adjustments for Tuition, Fees, Room and Board**

**Adding Courses** Adding courses at any time may result in additional charges to the student’s account.

**Dropping Some Courses** A student who remains registered is not charged for any dropped course that meets for twelve weeks or longer if the course is dropped prior to the end of the second week (fourteen days). All charges remain on a student account for a course dropped after the fourteen-day deadline.

For courses that meet for less than twelve weeks, the deadline to drop with a 100% reduction of charges is one day for each week the course is scheduled to meet (e.g. the deadline to drop a five-week course is prior to the end of the fifth day). All charges remain on a student account for a course dropped after the deadline.

**Withdrawing from All Courses** A student is not charged when withdrawing from all University of Maine System courses that meet for twelve weeks or longer if the withdrawal is submitted prior to the end of the second week (fourteen days). Tuition and mandatory fees are adjusted at a percentage for students withdrawing from all courses after fourteen days. The adjustment schedule is available at https://usm.maine.edu/student-financial-services

For courses that meet for less than twelve weeks, the deadline to withdraw with a 100% reduction of charges is one day for each week individual courses are scheduled to meet (e.g. the deadline to drop a five-week course is prior to the end of the fifth day). All charges remain on a student account when a student withdraws from all courses after the deadline.

**Determination of Attendance** For purposes of calculating financial adjustments for students dropping from some or withdrawing from all courses, attendance includes weekends and holidays and ends on the student’s last date of attendance as determined when she or he notifies the institution's designated official office that she or he has stopped attending. The length of a class is defined on the official class schedule. Changes in scheduled classes (beginning or ending) by the instructor are not considered when calculating adjustments.
Room and Board Adjustments  All adjustments to room charges are governed by the terms of the Residence Hall Contract. Students who withdraw from the University are charged for meals at an established prorated daily rate. Additional information is available from the Department of Residential Life or at http://usm.maine.edu/residential-life/.

Involuntary Withdrawals Consideration for financial adjustments of charges for involuntary withdrawals (e.g., extended illness or military service) will be considered on a case-by-case basis. The deadline for requesting an involuntary withdrawal is up to 90 days after the close of the term for which the student is requesting an exception to the withdrawal policy. The spring semester deadline is less than 90 days for students who have been awarded some types of financial aid. Charges will not be reduced for voluntary absence from classes. Contact Student Financial Services for additional information about this appeal process.

Administrative dismissals are not entitled to an adjustment of institutional charges.

Students registering at other University of Maine System campuses should contact billing offices at those institutions with questions regarding financial adjustments.

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

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 associate director of Student Financial Services, or other officials designated by the campus (this authority is granted to all Admission 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 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.

Current members of the United States Armed forces and veterans who have been honorably discharged who are enrolled at the University of Southern Maine are eligible for in-state tuition rates, regardless of the member's or veteran's state of residence. All dependents using a GI Bill are billed at the in-state tuition rate.

A student will be considered in-state for tuition purposes if they are the spouse or domestic partner of an individual who currently has continuous, permanent full-time employment in Maine and their employment began prior to the student registering or applying for degree status at the University. Students seeking in-state tuition based on a domestic partnership relationship must submit an approved Affidavit of Domestic Partnership.

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 resident of the United States, they cannot be a resident 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 must be followed:

A "Request for Change of Residence Status" must be filed with the associate director of Student Financial Services or designee on or before the campus's first day of classes for the summer session or fall or spring semester for which residency is requested. All applications shall be prospective.

If the associate director of Student Financial Services written decision, to be issued within thirty days of the first day of classes, is considered incorrect by the student, the student may appeal that decision in writing, within thirty days, to the vice president for enrollment management of the campus.

In the event that the associate director of Student Financial Services, 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 associate director of Student Financial
Services or other designated official as set forth in the preceding paragraph.

“Request for Change of Residence Status” applications are available at https://usm.maine.edu/student-financial-services or at the Student Financial Services Office, 101 Bailey Hall, Gorham, or the Student Financial Services Office, Luther Bonney, Portland. Completed applications should be returned to the Student Financial Services Office.
Overview

The Office of Registration & Scheduling Services supports the instructional mission of the University by providing key services to students, faculty, academic and administrative departments, and to the public. Services include record management; course, classroom, and final exam scheduling; student registrations; grade processing; transcript issuance; ensuring FERPA compliance; recording such critical functions as academic honors, sanctions, dismissals, and much more.

USM offers courses throughout the calendar year. Our robust, traditional fall and spring semesters are complemented by the shorter summer and winter terms. USM strives to provide plentiful course options year-round for students to make continued degree progress.

Summer Session
With nearly 500 course offerings, both on campus and online, in condensed formats ranging from one to seven weeks, Summer provides an opportunity for students to get the courses and credits they need to make continuous progress. In addition to traditional courses, a variety of innovative institutes and conferences are sponsored during the summer months, an opportunity to try something not offered during fall and spring. Contact us by email at registerusm@maine.edu or online at usm.maine.edu/reg/summer.

Winter Session
Winter courses are offered online during the four-week break between fall and spring semesters. This abbreviated term provides an opportunity for students to accelerate their degree progress. Contact us by email at registerusm@maine.edu or online at usm.maine.edu/reg/winter.

Academic Policies - Undergraduate

Office Policies

- Absence from a Final Examination
- Academic Forgiveness Policy
- Academic Record Changes
- Academic Suspension/Dismiss
- Add
- Drop
- Attendance Policy
- Auditing Courses
- Catalog Effective for Graduation Requirements
- Change of Major
- Class Membership
- Clinical Course Requirements
- Confidentiality Policy
- Course Numbering
- Coursework at Other Institutions
- Credit Hour Definition
- Dean's List
- Declaring a Major
- Enrollment Status
- Examination Policy
- Grading System
- Grade Point Averages GPA
- Graduation Requirements
- Graduation Honors Policy
- Independent Study
- Matriculation Status (Leave of Absence)
- Minimum Grade and Academic Suspension
- Non-Matriculated Students
- Disability Services Center
- Pass-Fail Option
- Permanent Academic Record
- Post-Baccalaureate Study for Second Degree
- Professional Licensure and Certification Notice
- Re-enrollment after Academic Suspension
- Registrar
- Registration
- Repeated Courses
- Residence Requirement
- Semester Withdrawal from the University
- Student Academic Integrity Policy
- Student Academic Appeals Policy
- Student Administrative Appeals Policy
- Student Complaints
- Syllabi Distribution
- University Degree Requirements
- Unsatisfactory Progress
- Vacation
To be eligible for a baccalaureate degree from the University, a student must meet the following:

- College readiness requirements
- Core curriculum requirements
- 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 Credits and the USM Core."

**College Readiness Requirements**

The University has defined measures of college readiness in writing and math. All students must demonstrate college readiness in these subjects. Some courses at other institutions may be used to meet the college readiness requirements in math or writing; please consult the Transfer Affairs office for specifics. These requirements can also be met through CLEP scores; consult the office of Prior Learning Assessment for an evaluation.

In math, students can demonstrate college readiness by any ONE of the following measures:

- An SAT Quantitative score of 570 or above
- An ACT Math score of 22 or above
- A passing score on the mathematics placement examination
- A grade of C- or better in MAT 101 (4 credits)

Students whose first language is not English can demonstrate college readiness by any ONE of the following measures:

- An SAT Writing score of 500 or above
- A TOEFL score of 79 or above

Non-native speakers of English whose writing falls below these measures must complete ESL 104 Reading, Writing & Vocabulary, with a grade of C or better (and any prerequisite courses based on the ESOL Program's placement test). To complete their Core writing requirement, these students must then move on to ESL 100 College Writing.

**Course Numbering**

<table>
<thead>
<tr>
<th>Course Numbering</th>
<th>Developmental/No Degree Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>001-099</td>
<td>Introductory Level</td>
</tr>
<tr>
<td>100-199</td>
<td>Intermediate Level</td>
</tr>
<tr>
<td>200-399</td>
<td>Senior Level others by permission</td>
</tr>
<tr>
<td>400-499</td>
<td>Graduate and Professional Students Only</td>
</tr>
<tr>
<td>500-599</td>
<td></td>
</tr>
<tr>
<td>600-799</td>
<td></td>
</tr>
</tbody>
</table>

Note:

- All courses with number 100 or greater carry credit and quality points toward a baccalaureate degree.
- Matriculated baccalaureate students should not register for courses with numbers less than 100 unless meeting minimum proficiency requirements.

**Registrar**

The Registrar, in the Office of Registration and Scheduling Services, 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 recording such critical functions as academic honors, sanctions, and dismissals. The Office of Registration and Scheduling Services is located in Bailey Hall on the Gorham campus, (207) 780-5230. Registration services are also available in Luther Bonney Hall on the Portland campus and at Lewiston-Auburn College, (207) 753-6500.

**Registration**

The registration process is conducted by Registration and Scheduling Services, Advising, and many academic departments. It includes
acknowledgement of financial responsibility, selection of courses, completion of any necessary forms, and payment of University charges. Newly admitted students are notified by Orientation and Transitional Programs of their appointment for academic orientation, advising, and registration. Advising coordinates the new student academic advising process and initiates the registration procedure by approving course schedules.

- Continuing degree students may advance register in priority order, based on credits earned and class level. Advance registration is conducted in early November for the Spring term; early March for the Summer term; and early April for the Fall term. Degree students may need to 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.

- Non-matriculated (non-degree-seeking) students may register only during the open registration period which follows the advance registration period.

### Enrollment Status

Undergraduate students are considered to be full-time if they are enrolled for 12 or more credits; three-quarter time requires at least 9 credits; and half-time requires 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 (with the exception of A+), 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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Superior</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory, successful meeting of the course objectives</td>
</tr>
<tr>
<td>D</td>
<td>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.</td>
</tr>
<tr>
<td>F</td>
<td>Failure to meet the course objectives</td>
</tr>
<tr>
<td>P</td>
<td>Pass; pass with a grade of C- or better in a pass/fail course</td>
</tr>
<tr>
<td>H</td>
<td>High performance in a pass/fail course</td>
</tr>
<tr>
<td>LP</td>
<td>Low Pass; pass with a grade of D-, D, or D+ in a pass/fail course</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete; a temporary grade given, agreed upon by instructor and student, in extraordinary circumstances when the student has failed to complete the course requirements. Incomplete grades must be resolved by the end of each subsequent (fall or spring) semester. If the incomplete is not resolved by the end of the subsequent semester, it will be converted to an F.</td>
</tr>
<tr>
<td>INC</td>
<td>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 wherein the faculty member is no longer available, the dean may exercise this function. The grade of INC has no impact on GPA; no credits awarded.</td>
</tr>
<tr>
<td>L</td>
<td>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.</td>
</tr>
<tr>
<td>MG</td>
<td>Missing Grade; Faculty may fail to submit a grade for a particular student in a course. In these cases, the Registrar will note this act by designating a missing grade, or MG. Missing Grades must be resolved by the end of each semester. If the missing grade is not resolved, it will be converted to an F.</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal after the end of the drop period through 60% of a course. If a student has not officially withdrawn before 60% of the course has been completed, an F will be assigned. The W notation may be obtained after...</td>
</tr>
</tbody>
</table>
grade

DG
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.

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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Grade Points per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>A–</td>
<td>3.67 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.33 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3.00 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>B–</td>
<td>2.67 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.33 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.00 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>C–</td>
<td>1.67 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.33 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.00 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>D–</td>
<td>0.67 grade points per credit hour</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0.00 grade points per credit hour</td>
<td></td>
</tr>
</tbody>
</table>

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 (exclude classes where grades are P, H, LP, I and W). 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.

Credit Hour Definition

A credit hour is defined as one hour of classroom or direct faculty instruction and no less than two hours of out-of-class student work each week for approximately fifteen weeks for one semester or the equivalent amount of work over a different amount of time.

Dean's List

At the end of the fall and spring semesters, full-time, undergraduate degree students (12 credit hours or more, with a minimum of 12 letter graded credits A-F), and excluding developmental credits with course numbers less than 100, with grade point average of 3.6 or above will be placed on the Dean's List. Students with incomplete or missing grades (I or MG) at the point when the Dean's List is produced (approximately 35 days after the end of a fall or spring semester) will not be eligible for the Dean's List. A notation will be made on the transcript of those who earn the Dean's List distinction. Those students on the Dean's List whose names appear in the public directory of the University will have their names released to the news media.

Students who attend both the fall and the spring semesters as part-time degree students and who meet the above full-time Dean's List criteria when the fall and spring semesters are combined are eligible for the academic year Dean's List at the end of the spring semester. A notation will be made on the transcript of those who earn the academic year Dean's List distinction.

Minimum Grade and Academic Suspension

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

Re-enrollment after Academic Suspension

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.

Unsatisfactory Progress

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.

Academic Dismissal

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

Professional Licensure and Certification Notice

Students who are pursuing degrees leading to application for professional licensure or certification, and/or who will be participating in clinical placements, internships, or practica through their USM program should be aware that their host facility may require a criminal background check, fingerprinting, or drug screening. In such situations, each student is responsible for obtaining and paying for the background check or other screening process and for delivering required documentation to the facility. Although the University will make reasonable efforts to place admitted students in field experiences and internships, it will be up to the host facility to determine whether a student will be allowed to work at that facility. Students should further be aware that a criminal record may jeopardize licensure by the state certification body. Students may consult the certification body corresponding to their intended occupation for more details. Successful completion of a program of study at USM does not guarantee licensure, certification, or employment in the relevant occupation.

Non-Degree Students

A non-degree student is any student who is not admitted and enrolled in a USM undergraduate degree program. Non-degree students may register on a space-available basis for courses providing the student meets the prerequisites for the course. Undergraduate students may take up to 60 credit hours in non-degree status. Before earning 60 credit hours, any non-degree student who intends to earn a degree will need to apply for admission and be admitted to a degree program at USM.

Non-degree students are not eligible for financial aid.
Class Membership

A minimum of 120 credit hours is required for graduation in most baccalaureate-level programs. To progress through the University in the traditional four years, full-time students should earn at least 30 credits each year, carrying at least 15 credit hours each semester or utilizing winter or summer sessions to supplement a fewer-than-15-credit-hour term. Permission must be obtained from the advisor and the appropriate dean to carry more than 18 credit hours in a semester.

For standing as a sophomore, a student shall have completed at least 24 credit hours; for junior standing, 54 credit hours; and for senior standing, 84 credit hours.

Add

Students may self-add courses of twelve or more weeks in length through the end of the first week of the semester, provided that there is space available and the student has satisfied any prerequisites for the class. An instructor's signature, or departmental permission, is required in all situations where the student is unable to self-register. For courses that are less than twelve weeks in length, the add period will be 7% of the class length (one day for each two weeks of the class length).

Students who find that their names are not on the instructor's official list or that a course is not listed on their official schedule in Mainestreet should check immediately with the Office of Registration and Scheduling Services to make necessary corrections to the registration records.

Drop

Students may self-drop from a course at any time before the end of the course.

- A drop during the first two weeks of a course that is twelve weeks or more in length (or during the first 14% of the class for classes less than twelve weeks in length) will not be noted on the transcript.
- A drop after the first two weeks of a course that is twelve weeks or more in length through 60% of the course will receive the grade notation of W.
- A drop of a course after the 60% period will receive the grade notation of F.

The W notation may be assigned after 60% of the course has been completed 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 according to any one of the procedures described above will be graded F or an L in that course and must assume all financial obligations associated with the course.

*****Please check your MaineStreet Schedule in the Student Center and click on the icon (Academic Calendar Deadlines) before each class for the exact deadline dates. *****

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 instructor will assign pass grades of H (high performance) or P (pass) when a letter grade of C- or better would have been assigned, a grade of LP (low pass) when the letter grade would have been D+, D, or D-. Note that F and L grades earned in pass/fail classes will be included in the grade point average calculation.

Unless otherwise specifically stated in this catalog, courses taken to satisfy Core curriculum, University Honors Program, or major or minor requirements may not be taken on a pass/fail basis. Undergraduate degree candidates may register for a maximum of six hours of pass/fail credits in any one semester, up to a maximum of eighteen hours of the total credit hours required for graduation.

Students may exercise the pass/fail option for a course through the add/drop period (corresponding to no notation on the transcript). Requests after this period must be made through the Dean's office of the school/college offering the course. In general, requests for reversal of the pass/fail option will only be granted if a grade is necessary to meet the student's particular degree requirements. Prior to exercising this option, students are encouraged to contact the instructor of the course.
Repeated Courses

When a student repeats a course and earns a grade of A, B, C, D, F, H, P, or LP, the initial grade notation remains on the transcript; the later grade is the one used and counted for GPA calculations, credit, and requirements. No course 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 be taken at other institutions; such courses will be accepted in accordance with the University's transfer policy. The transferred course accepted as a USM equivalent will receive USM credit but will not be calculated in the GPA; the original USM course that was repeated will remain on the student's transcript but will be removed from both the credit and GPA calculations.

Academic Forgiveness Policy

Occasionally, a student's academic performance early in his or her career or due to extenuating life circumstances may not be reflective of academic ability. The Academic Forgiveness Policy allows an undergraduate student the right to request to eliminate up to 15 credit hours that may be negatively impacting overall GPA.

If a request is approved by the Academic Review Committee, the grades and credits for the forgiven courses/semester will remain on the transcript; however, the credits will not accumulate toward graduation nor impact the student’s GPA. Once academic forgiveness is granted, it is not reversible.

In order to be considered, the following criteria must be met:

1) The course(s) or semester of coursework to be forgiven must have been completed at least two (2) years prior to the request for forgiveness and any earned credits to be forgiven must not have been applied to a previously awarded degree.

2) The student has earned at least 30 credits with a minimum GPA of 2.0 at USM since completion of the coursework for which forgiveness is sought.

3) The student is a matriculated undergraduate degree candidate in good standing at the time of the request for forgiveness.

4) Forgiveness can only be provided for credits and grades earned at USM.

5) Academic forgiveness can be granted only once and for no more than 15 credit hours.

   No tuition or fee refunds shall be made.

Substitutions - Disability Services

If a documented disability precludes successful completion of a particular course required by a degree program or successful completion of Core curriculum requirements, a request for substitution of either the degree program, or most Core curriculum requirements can be initiated by a student. A student may not request that Core area A (writing proficiency) or Core area C (writing competence) be modified. Written communication is considered to be an integral part of the classroom experience and substitution of this requirement would substantially change the nature of the educational preparation and experience at USM. In all requests, the student has the responsibility to provide information supporting the need for a degree program or Core curriculum substitution based upon disability. A copy of the complete policy and procedures statement may be obtained from the Disability Services Center, 242 Luther Bonney, Portland campus, (207) 780-4706; TTY (207) 780-4395 or dsc-usm@maine.edu.

Auditing Courses

Students who register to audit a course receive no academic credit for the course but will have an audit grade (AU) recorded on their transcripts. Audit courses must be declared by the end of the add/drop period. Questions about this policy should be directed to the Office of Registration and Scheduling Services.

Independent Study
Independent study is intended to encourage supervised undergraduate research. With permission of the instructor, junior and senior students may elect independent study related to their major or minor. Normally, no more than 4 credits may be earned in a semester. No more than 12 credits of completed independent study shall be counted toward an undergraduate degree. The student submits an independent study application to the department chair, which includes a detailed description of his or her proposed program of study. The independent study form must be filed with the Registrar before registration will be allowed.

Permanent Academic Record

The permanent academic record, including transfer credit evaluation, is maintained by 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 Student Financials. Other types of transcripts are: Unofficial—issued Directly to Student, available after grades are posted for that semester; Placement Transcript, provided for the student's placement folder.

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 immediately. Records are assumed to be correct if a student does not report to the Registrar 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 toward 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.

Residence Requirement

For all baccalaureate degrees at the University, a minimum of 30 credits hours of the last 45 hours completed, including at least 9 hours in the major field, must be completed while matriculated in the school or college from which the degree is sought. A student may earn no more than 6 of these 30 credit hours at another campus of the University of Maine System. Under extraordinary circumstances and with supporting documentation, students may request a waiver of this requirement from the dean of the school or college from which the degree is sought. Waivers are not automatically granted, and shall not be granted until at least 30 credits hours, including at least 9 hours in the major field, have been completed while matriculated in the school or college from which the degree is sought.

Graduation Requirements

In addition to the minimum requirements of 120 credits for a baccalaureate 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 grade point average of not less than 2.00 (some majors require a higher GPA for graduation); 
(d) meet the requirements of the major department; and 
(e) complete an Application for Degree on MaineStreet or with the Office of the Registration and Scheduling Services at the beginning of the semester of graduation.

Responsibility for successfully completing the requirements of the program resides with the student.

Graduation Honors Policy

Graduation with Latin Honors distinction is based on the student's final GPA at the University of Southern Maine. Students must complete at least 60 credit hours (with a minimum of 45 credit hours graded A through F) at USM in order to qualify. Graduation with distinction categories are (a)
at least 3.90 for summa cum laude; (b) at least 3.75 and less than 3.90 for magna cum laude; and (c) at least 3.60 and less than 3.75 for cum laude.

In the event a student meets the graduation with distinction GPA requirement at USM, but fails to meet the 60-credit-hour requirement, distinction will be determined by a calculation of the student's GPA for the last 60 credit hours, wherever they were completed, after all grades are in and it is determined that all requirements have been satisfied.

Honor Cords at Commencement

For purposes of wearing honor cords designating Latin Honors at Commencement (gold cords, summa cum laude; blue cords, magna cum laude; white cords, cum laude), a student must meet the GPA requirements listed above, and be registered for enough credits in the Spring semester to meet the 60 credit hours at USM requirement. Honors status at the time of the May Commencement ceremony is based on the cumulative GPA obtained after the last full term of attendance (fall or winter) as grades for the spring term are typically not in.

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 from an accredited institution and are undertaking work for a second baccalaureate degree are not required to satisfy Core curriculum requirements.

Semester Withdrawal from the University

To withdraw from the University, a student must notify the Registrar in writing. Official withdrawal forms are available from the Registration and Scheduling Services office, the Advising Office, and online, 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.

Grades will be assigned based on rules explained in the Drop section above.

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 will lose their matriculation status after five years of non-enrollment. In such cases, the student can still register for classes in accordance with current registration procedures as a non-matriculated student. If, however, a student wishes to resume studies as a degree candidate after losing matriculative status, he or she needs to apply for readmission. Readmission applicants should contact the Office of Admissions for the proper forms.

Catalog Effective for Graduation Requirements

First-year 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; 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. Students must meet the requirements of a catalog issued within eight years of matriculation. A student may use different catalogs to satisfy general education (core) requirements, major requirements, and any minor requirements.
The University is not bound by its previous catalogs and maintains the right to control its course offerings. Where program/degree requirement changes have occurred that have resulted in changes to course offerings and/or availability, reasonable substitutions will be made to facilitate degree/program completion.

**Declaring a Major**

Undergraduate students must declare a major before earning 60 credits at USM. Transfer students who enter USM with more than 60 credits must declare a major before the end of their first semester at USM.

**Changing/Adding Majors, Minors or Concentration**

Students should obtain the proper form from the Registration and Scheduling Services office or website and seek proper departmental approval. When approved, the new major, minor, or concentration will be updated by Registration and Scheduling Services. Note that some programs require a minimum grade point average (GPA) for a major or minor change. See the appropriate department's section for specific details.

**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.

**Syllabi Distribution Policy**

Effective September 11, 2017: All courses must have a syllabi. However, provided that the University is compliant with ADA accessibility standards, paper syllabi are no longer required. A paper syllabi must be provided to any student in the class who requests one.

**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. A copy of the complete policy may be obtained from the Dean of Students Office, online at [www.usm.maine.edu/deanofstudents](http://www.usm.maine.edu/deanofstudents) or by calling and requesting a copy at (207) 780-5242.

**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 courses 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 an Incomplete, for the semester grade.

**Confidentiality Policy**
The University complies with the Family Rights and Privacy Act of 1974 (the Buckley Amendment). For the complete University Confidentiality Policy, consult the [Confidentiality of Student Records Policy](#).

### Clinical Course Requirements

Many programs 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 Complaints

The Dean of Students Office provides guidance to students to assist in identifying whether the nature of their concern is an academic appeal or an administrative appeal, and the appropriate University policy or procedure that can be used to resolve it. The academic appeals and administrative appeals policies do not apply to student complaints about unlawful discrimination or sexual harassment. The Dean of Students Office and the Deputy Title IX Coordinator can advise the student about other University policies and procedures used to address student complaints about unlawful discrimination and sexual harassment.

### Student Academic Appeals Policy

Public institutions of higher education function for the common good, not to further the interest of either the individual faculty member or the institution as a whole. The common good depends upon the free search for truth and its free expression. Academic freedom is essential for protection of the rights of the teacher in teaching, and the rights of the student to freedom in learning. Teachers must be accorded freedom of speech under the First Amendment of the U.S. Constitution, and are entitled to freedom in the classroom in discussing their subjects. Controversy lies at the heart of free academic inquiry, and provocative teaching techniques are often effective. Rights carry corresponding duties; both faculty and students should exercise this freedom in a responsible manner.

A fundamental premise of academic freedom is that decisions concerning the quality of faculty scholarship, teaching, and service are best made by reference to standards of the academic profession, as interpreted and applied by the community of scholars who are qualified by academic expertise and professional training to establish them. Possible violations of professional standards are most appropriately remedied through supervision of faculty peers. This occurs during regular performance appraisals of faculty, in which adequate consideration of student teaching evaluations is required.

Academic appeals generally involve such matters as appeal of grades granted by individual members of the faculty or instances of perceived unfair treatment which a student believes may have negatively impacted his or her grade. To be considered, an appeal of a grade must be initiated within thirty days after a final grade is posted.

In order to guarantee fair and equitable consideration of student academic appeals, a student must first reduce an appeal to writing and discuss it with the faculty member whose actions gave rise to the appeal, in a good faith attempt to resolve any misunderstanding. If, after such discussion, the student is not satisfied with the result, he or she may appeal to the department chair.

After receiving an academic appeal of a grade, the department chair shall interview the student, the faculty member, and any witnesses; review the course syllabus and all graded assignments; and ascertain the facts of each case. Because the faculty member who issued the grade is in the best position to evaluate the performance of students enrolled in a course, the academic judgment used to determine the merits of the grade awarded shall not be reviewable. A department chair may request that a faculty member reconsider a student's grade. A faculty member may decline to reconsider a student's grade; reconsider a grade and change it; or reconsider a grade and decide not to change it. There must be compelling evidence of unfair treatment for a department chair to change a grade, and this may be done only after a vote supporting that decision by faculty peers within the department.

The department chair shall issue a decision in writing to the student and the faculty member within a reasonable period of time, normally not to exceed fourteen days. Either the student or the faculty member may appeal that decision to the dean of the school or college and, if not satisfied with the result, to the provost. Responses to these appeals shall be made in writing to the student and the faculty member within a reasonable period of time, normally not to exceed fourteen days.

The individual receiving an academic appeal of a grade shall review the record compiled by the department chair and evaluate the manner in which the appeal was decided. Because faculty peers within the department are in the best position to evaluate teaching within their scholarly expertise, there must be compelling evidence of unfair treatment or violation of the academic appeals procedure for a grade to be changed. The individual receiving an academic appeal shall issue a decision in writing to the student, with copies to the faculty member and the department
chair. A decision by the office of the provost shall be final and not subject to further review.

**Student Administrative Appeals Policy**

Appeals of administrative decisions generally involve all matters affecting a student while at USM other than matters affecting grades. An administrative decision is any final decision made in an official capacity by any employee or group of employees of the University, including academic matters other than those affecting grades governed by the Student Academic Appeals Policy and violations of the Student Conduct Code. Decisions by a departmental, college or University faculty group making or changing policies are not final administrative decisions. Grading matters are appealed through the Student Academic Appeals Policy described above. To be considered, an administrative appeal must be initiated within 30 days after the decision is made.

In order to guarantee fair and equitable consideration of student administrative appeals, a student must first reduce an appeal to writing and meet and discuss it with the University employee whose actions gave rise to the appeal, in a good faith attempt to resolve any misunderstanding. If, after such a meeting, the student is not satisfied with the result, he or she may appeal to the head of the academic department or administrative supervisor of the employee.

The head of the academic department or administrative supervisor of the University employee receiving an administrative appeal shall interview the student, the employee, and any witnesses; review relevant written materials; and ascertain the facts of each case. For the individual receiving an administrative appeal to change a decision there must be compelling evidence the University employee exceeded his or her authority or engaged in an arbitrary and capricious abuse of discretion unsupported by the record.

The individual deciding an administrative appeal shall issue a decision in writing to the student and the University employee within a reasonable period of time, normally not to exceed fourteen days. Either the student or the University employee may appeal that decision to the head of the appropriate administrative division and, if not satisfied with the result, to the vice president for Academic Affairs or the appropriate vice president for the area involved. A decision by the vice president for Academic Affairs or the appropriate vice president for the area involved shall be final and not subject to further review.

No person shall present to any individual receiving a student academic appeal or student administrative appeal any oral or written communication not on the record relevant to the appeal. The substance of any prohibited communication shall be disregarded by the person receiving an appeal when making any official decision on that appeal.

**Vacation Periods - Class Start**

Vacation periods of one week in length are defined to start on a Monday and end on the following Sunday. Any scheduled weekend class (Saturday/Sunday) prior to the start of the vacation week will be held as scheduled.
Campus Life

Academic Support Services

- Academic Assessment
- Advising
- Community Engagement and Career Development
- Computing Services
- Disability Services
- Instructional Technology and Media Services
- Learning Assistance and Tutoring: Learning Commons
- Prior Learning Assessment
- Veterans' Services
- University Libraries

Advising

Advising offers USM students an integrated approach to academic advising and career development. Advisors provide academic advising and early career planning assistance to support the development and achievement of students' educational and career goals. During their first semester at the University following orientation and initial registration, students are assigned a professional advisor and a faculty academic advisor within their respective academic departments. Professional and faculty academic advisors work in partnership to support and encourage a student's success throughout their academic career. Students are encouraged to maintain close contact with both advisors.

Students who have not declared a major are provided with a professional advisor from Advising. Advisors assist students in the development of educational and early career goals as well as the selection of an appropriate major. Students should be ready to declare a major before completing sophomore status at the University. Once students declare their major they will also be assigned a faculty academic advisor.

Students admitted conditionally are also provided with a professional advisor from Advising. Our focus is academic success and support for all participants and we offer several key elements to help students succeed. These include a developmental approach to advising, courses to strengthen academic performance, and carefully selected course schedules. Students admitted conditionally will have a personalized Academic Plan. Upon completion of the requirements of the academic support plan, students are transitioned from conditional status and are also assigned a faculty advisor in their major department.

Professional advisors are assigned to students who have not been admitted to the institution and are taking courses on a space-available basis.

The USM Early Study–Aspirations Program offers opportunities for high school students to take college courses to enrich their high school experience. The program is designed to help students supplement, not supplant, the academic program of the high school. Academic requirements must be met, and permission from high school and parent(s) is expected. Financial assistance is available. For more information call (207) 780-4040.

Students who have questions regarding general academic policies and procedures, as well as about other aspects of University programs, are encouraged to contact Advising in 137 Luther Bonney Hall on the Portland campus (780-4040), 119 Bailey Hall on the Gorham campus (780-5652), and 119 Lewiston-Auburn College in Lewiston (753-6500).

Community Engagement And Career Development

The Office of Community Engagement and Career Development (CECD) helps prepare students for life, work and citizenship through career development, service learning, internship, and other community-based learning opportunities. CECD serves as a catalyst for university and community partnerships that enhance student learning and benefit our communities. The office also serves as the portal for community organizations and businesses interested in collaborating with USM by hosting internships and service opportunities and helping students prepare for employment.

Career Services:
CECD offers career services through individual appointments, regularly scheduled workshops, and courses for credit. We maintain a comprehensive electronic recruiting system available to all USM students seeking employment. Students receive career assistance ranging from resume review to managing public profiles on job search sites to preparing for job interviews.

Internships:
Students receive assistance finding both academic, for-credit and paid internships. Most academic programs at USM offer internships for academic credit. CECD maintains a current list of these and other academic internship opportunities, assists students on request with placements for their academic internships, manages authorizations for out-of-state internships, and provides general support to academic programs which offer course-based internships. We assist students with securing paid internships through our career development services and our electronic recruiting system.

Service Learning:
Community service is an opportunity for students to gain valuable experience, pursue passions and interests, and give back to the community. USM offers a wide range of service-learning courses in which students receive academic credit as they work with faculty and community organizations to address community-identified needs. Most majors offer service-learning courses, but service learning courses may also be completed as part of a student’s elective courses. CECD assists students with selecting appropriate service learning courses, assists with service learning placements on request, and provides general support to faculty and programs which offer service learning courses.

Volunteerism:
CECD maintains an active list of volunteer opportunities for students who want to contribute to their communities but who wish to do so outside of the context of an academic course. USM students provide hundreds of hours of such service each year. CECD assists students with finding appropriate volunteer opportunities based on the student’s interests and priorities.

For more information on career services, internships, service learning or volunteerism, visit the Community Engagement and Career Development website.

Prior Learning Assessment (PLA)

We respect the learning you bring to USM. With Prior Learning Assessment (PLA), we can potentially reward you for it with college credit - saving you time and money as you work toward your degree.

PLA allows us to build a bridge between your practical/life knowledge and the academic learning we provide on campus and online. This can include knowledge gained from the workforce, a profession, and the military. Our pathways to academic credit might include: testing options, credential reviews, and academic portfolio development. These assessments are available to the general public as well as USM students.

Military Credits - Served in the military? Our Veterans Services coordinator can review your military transcript to see if college credit is available based on your knowledge and experience.

Standardized Testing

We may offer credit that can be posted to your transcript free of charge for some high school testing.

- Advanced Placement (AP) classes if you passed the exams with a 3 or better.
- International Baccalaureate (IB) courses if you passed a Higher Level exam with a 5 or better.

Already knowledgeable in a subject area? We offer three kinds of computerized tests where you can demonstrate your basic knowledge. Bypass a foundational course in favor of one that puts you closer to your degree.

- CLEP - 35 exams approved for credit (offered on-site at USM)
- DSST - 34 exams approved for credit (offered on-site)
- Excelsior - 6 exams approved for credit

Course Challenge Exams - Hoping to place out of a course in an area not covered by available CLEP, DSST, or Excelsior exams? In certain cases, a faculty member might develop an individual test to assess your knowledge of course material. You can earn credit for the course if you pass the exam.

Language Examinations - You can earn up to 6 general elective credits for any of 66 languages through the NYU and BYU language exams. You can take one of the language tests in roughly 2.5 hours at the Portland Campus Testing Center.

Credential Review - You may be able to earn course credit for some licenses, certificates and other credentials from organizations outside the University. We can review your license or certificate to determine whether credit is applicable.
Academic Portfolio Assessment - If there's no available exam to help you demonstrate what you've learned, we can work with faculty members to help you create an academic portfolio to reflect your knowledge. Your portfolio will include a letter of intent, resume, a narrative, and any supporting materials you may have (certificates, awards, letters of recommendation, etc.) to document your mastery of course learning objectives. Portfolio credit options include general electives, subject specific electives, and individual course equivalencies.

Veterans' Services

USM's Veterans Services is an on-campus resource for veterans, servicemembers, and their families. Transitioning from combat to the classroom can be challenging and so can navigating the U.S. government benefits known as the GI Bill®. USM Veterans Services is here to help. Contact us at (207) 780-5232 or usm.veterans@maine.edu. Find out more at https://usm.maine.edu/veterans.

University Libraries: Centers of Learning, Research, Writing and Technology

The University Libraries provide a full range of resources and services in person and virtually. The Libraries are open long hours and conveniently located on each of USM's three campuses (Gorham, Portland, Lewiston-Auburn). The Libraries offer a range of comfortable spaces for studying, group work and assistance. Find out more at http://usm.maine.edu/library.

Learning Commons at Glickman Library (2nd Floor) and Gorham Library offer research and writing help, learning assistance, group study rooms and computers and technology support. Similar services are offered at the Lewiston-Auburn Library Information Commons. Find out more at http://usm.maine.edu/library/learning-commons.

Selected Services

- Circulation (Laptop and Kindle check out)
- Interlibrary Loan (ILLiad)
- Information and research instruction and assistance
- Ask-a-Librarian email and chat assistance
- Student Computers, full wireless access, printing and scanning
- Research and instruction guides and tutorials
- Tutoring in math, writing, ESOL
- Tutoring in technology assistance
- Recording Vault (Glickman Library)
- Course Reserves
- Group Study Rooms
- Center for Technology-Enhanced Learning (CTEL)

Collections and Resources

- Over 240 library databases, most full text
- Access to over 35,000 electronic journals via our databases with most articles available in full text
- URSUS Catalog access to 375,000 books supplemented by more than 1.5 million print titles held in the libraries of the other campuses of the University of Maine System, the Maine State Library and the Bangor Public Library with two or three day intercampus delivery
- E-Books, audio books and DVDs

Find out more at http://usm.maine.edu/library/collections.

The University Libraries also include two special collections:

Osher Map Library and Smith Center for Cartographic Education is the only separately established history of cartography library in northern New England. The cartographic collections contain fine examples of original maps, atlases, geographies, and globes spanning the years 1475 to the present augmented by a 4,000-volume reference collection of related works. Find out more at http://usm.maine.edu/maps/.

Special Collections consists of a rare books and manuscripts collection, the University Archives and the Jean Byers Sampson Center for Diversity in Maine. Find out more about the various special collections at http://usm.maine.edu/library/specialcollections.

Center for Technology Enhanced Learning (CTEL)

The Center for Technology-Enhanced Learning (CTEL) offers resources to USM faculty and staff, including learning and instructional design support and faculty development. With the goal of expanding higher education opportunities for the people of Maine and beyond, CTEL focuses its efforts on supporting courses and academic programs that attract new audiences to USM, such as, place-bound or working adults. CTEL works
closely with other USM units including the Glickman Library, ITMS, Learning Commons, and the Center for Collaboration and Development. CTEL delivers year-round programming using various workshop formats. CTEL also offers the following grant programs: CTEL Community of Practice grants, CTEL Technology-Enhanced Learning grants, and CTEL Learning Innovation Grants. Contact CTEL by phone: (207) 780-4540, email: ctelhelp@maine.edu or online: usm.maine.edu/ctel.

Computing Services

The Computing Services departments provide a variety of technology support services to students, faculty, and staff at the University.

Computer labs for general student use are located on the Gorham, Lewiston-Auburn, and Portland campuses and in the University Libraries. The computer labs have Microsoft Windows and Apple Macintosh computer systems, and academic software applications. Black and white or color printing is available for a nominal fee using the USM Card. Computer classrooms are available on all three campuses for class activity periods.

Resident students are provided an Internet connection in each room as part of their room package. The ResNet program, located in Upton Hall, Gorham, assists with setup and maintenance of the resident student computers on a walk-in and appointment basis. A walk-in and call-in Helpdesk, located in Luther Bonney Hall, Portland, assists all faculty, staff, and students with computer problems, including some common University login, e-mail, and Internet problems. Assistance can be requested by phone at 780-4029, by e-mail at helpdesk@usm.maine.edu, or on the Web at http://usm.maine.edu/computing. The Campus Computer Store, located in Luther Bonney Hall, Portland, sells computers and accessories at educational discount rates to faculty, staff, and students. In addition, discounted high-speed Internet service from Time Warner is available to faculty, staff, and students.

More information about any of the services offered by Computing Services can be found at usm-helpdesk@maine.edu.

Instructional Technology and Media Services

The Instructional Technology and Media Services (ITMS) Department provides classroom and instructional technology support for the academic programs of the University. This support includes group or individual sessions on instructional applications of technology in Portland, Gorham, or Lewiston-Auburn.

Other services include the delivery and maintenance of classroom equipment on all three campuses. The Department maintains a collection of non-print materials, with electronic listings available on the USM Web site (http://usm.maine.edu/itms). ITMS staff are available to help with the rental of materials for classroom use.

Offices are located at 232 Luther Bonney Hall in Portland, (207) 780-4280, 3 Bailey Hall in Gorham, (207) 780-5356, and LAC Library Commons in Lewiston-Auburn, (207) 753-6540.

Academic Assessment

The Office of Academic Assessment coordinates the administration of various testing programs, such as USM’s Mathematics Placement Program (e.g., Accuplacer Math Tests) for incoming and transfer students, in addition to certification and national tests for graduating students (e.g., Miller Analogies Test, GRE Subject Tests, LSAT, PRAXIS, and others). Students are encouraged to contact the office for further information at 628 Law, Portland campus and visit our Web site at http://usm.maine.edu/assessment.

The Office also conducts student assessment studies and student surveys, assists departments in evaluating courses and programs, develops tests and assessment instruments, and provides technical support to the faculty.

Disability Services

The Disability Services Center (DSC) provides a wide range of services to qualified students with physical, psychological, and learning disabilities enrolled in USM credit- and non-credit-bearing courses and programs. Contact DSC for information regarding particular needs. Documentation may be required. The office is located in 242 Luther Bonney Hall, Portland; 207-780-4706 or TTY 207-780-4395 or visit our Web site: http://usm.maine.edu/dsc.

Learning Assistance and Tutoring: The Learning Commons

The Learning Commons at University Libraries supports students in achieving their academic goals at USM. Designed as a collaborative learning environment, it is an ideal place to meet with other students, consult with a librarian or tutor, or work with a faculty member. The Learning Commons is open to all students, faculty, and staff at the University.
Commons offers guidance with the research and writing process, ranging from the navigation of hundreds of available articles and databases to the review of the final draft of a paper. Students can access free tutoring in multiple subject areas, with an emphasis in writing and math. The Learning Commons also provides students opportunities to discover and practice learning strategies in order to maximize academic time on task.

At The Learning Commons, students can:

- Work with a Reference Librarian
- Participate in individual and group tutoring sessions
- Attend weekly workshops
- Receive assistance with technology needs
- Work alone or with other students in a relaxed, appealing environment

Our spaces include movable tables and chairs, semi-private study pods, small group study rooms, and comfortable seating options. Students can use one of the many available computers or bring their own laptop, with wireless printing on site. The Portland location includes a small recording studio with a video camera, lighting, sound-proofed walls, and a computer for editing audio and video files.

The Learning Commons is located on the first floor of the Library in Bailey Hall on the Gorham campus, as well as on the second floor of the Glickman Library on the Portland campus.

Phone: (207)780-4228

http://usm.maine.edu/learningcommons

Dean of Students Office and Community Standards

Dean of Students Office

The Dean of Students Office within the unit of Campus Life has primary responsibility for student advocacy and support. In addition, the office is responsible for administering the Student Conduct Code. Through the Student Code of Conduct, the office maintains community standards of behavior that support the University's educational mission, promote students' academic achievement, and protect the rights of University community members. Violations of state or federal law and/or a University policy or regulation will be addressed through student conduct action and/or action through the appropriate criminal/civil process.

For more information (including a copy of the Student Conduct Code): (207) 780-5242, usm.maine.edu/deanofstudents, or visit 113 Upton Hall on the Gorham Campus.

For additional information about student policies or a copy of any policy, please visit the University Policies Page or contact the Dean of Students at (207) 780-5242 or by email at usmdeanofstudents@maine.edu.

Diversity and Inclusion

Take advantage of opportunities to celebrate our community and to explore the broad diversity of background, traditions, and points of view that make the USM campuses so vibrant. The work of the Centers and programs below are grounded in an understanding and celebration of our diverse community which includes people of all abilities, ages, ethnicities, genders, nationalities, races, religions & spiritual traditions, socioeconomic classes, and sexual orientations.

The Center for Sexualities & Gender Diversity

132 Woodbury Campus Center, Portland Campus, (207) 780-5767

The Center for Sexualities and Gender Diversity seeks to ensure a University environment that is more positive, safer, and supportive for members of all sexual orientations and gender identities of gender expressions. Most specifically, our attention is turned to those identities that fall under the LGBTQ+ umbrella (some examples of these identities: lesbian, gay, bisexual, pansexual, asexual, agender, transgender, gender queer, questioning, and more). The Center oversees the USM Safe Zone Project, a program that conveys an inclusive message to the University community. Safe Zone Project volunteers attend a short orientation program and then display a rainbow-striped sticker with the words "safe zone USM." This shows that they are committed to be identified as safe and supportive contacts for LGBTQ+ students, faculty, and staff members.
Religious & Spiritual Life

Woodbury Campus Center, Portland Campus, (207) 228-8091

The Religious and Spiritual Life Council is an interfaith body made up of ordained Chaplains and lay-people Advisors who volunteer their time to the USM campus community. The Council and its members offer programs and services to support religious and spiritual life in all its expressions. Chaplains and Advisors, sponsored by their respective faith communities, offer services to students and student groups in a wide variety of religious or spiritual traditions and work together to offer programs encouraging spiritual life and interfaith dialogue.

Office of Multicultural Student Affairs

Woodbury Campus Center, Portland Campus, (207) 780-4006

Multicultural Student Affairs is the home of the Multicultural Center and diversity and inclusion work that focuses on race, ethnicity, nationality, and culture. The Center helps create community for underrepresented students, it is where cultural activities and celebrations occur, and where many affiliated student organizations meet. Through its programming, Multicultural Student Affairs explores critical issues about race, class, ethnicity, nationality, and culture. The Center is open to the entire USM community; however, the Center has a unique role with regard to the support of students from marginalized communities and cultures.

Veterans' Services

230 Luther Bonney Hall, Portland Campus, (207) 780-5232

The Veterans' Resource Center serves veterans, servicemembers, and their families, who are accessing U.S. Department of Veterans Affairs educational benefits, often referred to as the GI Bill.

Safety and Wellness

Health & Counseling Services

Each semester, students who are enrolled in six or more credits are automatically assessed a Health Fee. This fee entitles students to unlimited office visits in the USM Health Center and twelve counseling sessions in Counseling Services. The health fee is not health insurance.

The University of Maine System's seven campuses require proof of health insurance as a condition of enrollment for all students fitting the criteria outlined below.

All USM students will be required to show proof of health insurance as a condition of course enrollment if they meet the following eligibility criteria:

- Undergraduate students taking 9 credits or more
- Graduate or Law students taking 6 credits or more
- All USM students enrolled in the School of Nursing
- All USM students enrolled in the Athletic Training Program
- All USM students enrolled in the Occupational Therapy Program

For more information: (207) 780-5411, or TTY (207) 780-5646 or visit usm.maine.edu/uhcs, 125 Upton Hall.

Strict standards of confidentiality are observed in the Health and Counseling Center. Staffing includes mental health clinicians, professional nurses, certified nurse practitioners, and physicians who understand college health issues and the diversity of the USM community. Please utilize the contact information below for more information and/or a referral to off-campus health and counseling services if needed.

Health Services

Call (207) 780-5411, or TTY (207) 780-5646. Immunization hotline, (207) 780-4504, usm.maine.edu/uhcs, First floor Upton Hall in Gorham.

Counseling Services

Call (207) 780-4050, usm.maine.edu/uhcs, 105 Payson-Smith Hall, Portland campus and 110 Upton Hall, Gorham campus. At Lewiston-Auburn College, call (207) 753-6500.
The Well is a resource center dedicated to helping USM students develop and increase their awareness of every aspect of wellness including healthy relationships and substance abuse prevention. The Wells are located on the first floor of Upton Hall in Gorham and in Woodbury Campus Center in Portland.

Campus Safety Project

The Campus Safety Project is a University-wide effort to promote healthy relationships that provides prevention education and response training on sexual assault, stalking, and relationship abuse for students, faculty, and staff and coordinates campus and community-based programs and services.

For more information, please visit the Campus Safety Project Page, including details regarding on-campus sexual assault and relationship-violence advocacy support.

Recreation and Fitness

Gorham Recreation and Fitness

The Gorham Recreation and Fitness Center offers many recreational activities regardless of skill level or previous experience. The fitness facility includes universal machines, free weights, and cardiovascular machines. Group exercise classes, personal fitness consultations, and a variety of other workshops are offered as well.

For more information call (207) 780-5649 or visit 102 Hill Gym on the Gorham campus.

Sullivan Recreation and Fitness Complex

The Sullivan Recreation and Fitness Complex has three courts lined for basketball, indoor tennis, badminton, volleyball, and indoor jogging. There are squash, wallyball, and racquetball courts, and two multi-purpose rooms for aerobics, dance, yoga, martial arts, and more. The Fitness Center offer Selectorized Power circuit stations, free weight equipment, treadmills, exercise bikes, steppers, climbers, elliptical fitness cross trainers, rowers, and stability balls. Equipment for wallyball is available for sign-out. A range of programs designed for busy commuters is available: aerobics, yoga, martial arts, racquetball, introductory dance classes, personal fitness consultations, and relaxation workshops. Outdoor recreation clinics and trips include camping, canoeing, cross-country skiing, sea kayaking, and more.

For more information: visit our website, call us at (207) 780-4939, or stop by 104 Sullivan Complex on the Portland campus.

Public Safety and Parking and Intercampus Transportation

USM Public Safety is responsible for keeping the peace, preventing crime, and delivering a variety of public safety related services including: Emergency Response, security and crowd control, crime investigation, 24-hour campus safety coverage, management of Public Safety Services (including parking and transportation), escort services, and educational programs.

The University provides a shuttle bus that runs between the Portland and Gorham campuses during the fall and spring semesters (Monday-Saturday). View our bus schedule here.

Parking permits are available at the Parking and Transportation Offices, with multiple locations across campus. University motor vehicle rules and instructions to appeal violations are available online.

EMERGENCY: call 911 from a campus phone or (207) 780-5211.
Non-emergency business: call (207) 780-5211.

To register for USMALERT emergency messages, go to usm.maine.edu/usmalert.

Student Involvement

Athletics
Athletics is an exciting part of the overall student experience at the University of Southern Maine. Few institutions can match the success of the Huskies' nationally recognized non-scholarship athletic program. The Huskies compete in the Little East Conference, an eight-member conference composed of public institutions in New England and recognized as one of the most competitive Division III conferences in the nation. The Huskies sponsor 22 intercollegiate sports, 11 for men and 11 for women. Annually, the Huskies qualify several team sports and countless individual performers for national championship competitions. Several USM teams achieve a national ranking each year and qualify for postseason play sponsored by the NCAA and the Little East Conference.

USM student-athletes are supported in their efforts to excel with a strong system of academic support services which includes mandatory study table hours for first year students, developmental advising, and progress checks with University faculty members. The Department of Athletics also offers an 18-credit hour minor and certificate program in coaching education that prepares students of all ages to lead and coach at any level.


Student Centers

Brooks Student Center

The Brooks Student Center (BSC) serves as the "hub" for student life in Gorham. Whether you want to relax and study, grab a snack, or attend an event, the BSC has something for you. BSC amenities include 24/7 access to a University Credit Union ("UCU") ATM; a staffed UCU branch; pool, ping pong, and air hockey tables; a flat screen TV; lounge space, bulletin boards; and two campus dining locations: the Residential Restaurant and the Husky Hideaway and Convenience Store. The BSC is also home to the Office of Campus Life and Student Activities.

Woodbury Campus Center

The Woodbury Campus Center serves as the "living room" of the Portland campus, with campus dining, the USM bookstore, a UCU ATM, and many other services available. Also located in the Woodbury Campus Center is the Campus Life Office, Area Gallery, the Center for Sexualities and Gender Diversity, Student Government Offices, the Veterans' Resource Center, the Well, Religious and Spiritual Life, and the Multicultural Student Center. Support services for commuter students, parking and transportation information, and more are also available.

Student Organizations and Student Government

Student Organizations
Undergraduate Student Government Association
USM/LAC Student Government Association
Greek Life

USM Dining and On-Campus Housing

USM Dining

Dining facilities are located on all three campuses. In Gorham, options include the Residential Restaurant and the Husky Hideaway Snack Bar in the Brooks Student Center, the Ice Arena Kiosk, and the Bailey Hall Cafe. In Portland, options include the Food Court in the Woodbury Campus Center, the University of Maine School of Law Cafe, and the Luther Bonney P.O.D. and Mini-Mart. The Lewiston-Auburn campus features Café-LA.

For more information (including hours, menus, and how to purchase a residential or commuter meal plan) please stop by one of the dining locations listed above.

Residential Life

The Department of Residential Life provides clean, safe, and attractive living and learning environments for approximately 1,100 students in five residential facilities on the Gorham campus. Accommodations are coeducational and offer convenient access to classes and campus events. Students living on campus may choose to apply to live in one of our special interest housing areas or living-learning communities.

For more information: call (207) 780-5240, email usmreslife@maine.edu, or visit usm.maine.edu/residential-life, 100 Upton Hall, Gorham campus.
The USM Core Curriculum

- **Vision and Goals**
- **Meeting USM Core Requirements**
- **USM Core Requirements and Sequencing**
- **USM Core Curriculum Regulations**
- **Transfer Credits and the USM Core**
- **Students with Catalog Year Prior to 2011**

**Vision and Goals**

The USM Core Curriculum is a coherent, integrative, and rigorous liberal education that enables our graduates to be world-minded, intentional, life-long learners. The USM Core engages the academic community in learning experiences that both illuminate and transcend the perspectives of various disciplines. It systematically fosters the values and dispositions, knowledge, and skills that prepare students for successful citizenship in a complex and dynamic world.

Students will

- Demonstrate informed understanding of interrelationships between human cultures and the natural world
- Engage in analytical, contextual and integrative thinking about complex issues
- Demonstrate effective communication using multiple forms of expression
- Engage in critical reflection upon and informed action in their roles as participants in multiple communities
- Engage in ethical action and contribute to the social and environmental welfare of local and global communities

The USM Core enables students to achieve these goals through active learning that occurs both in and outside of the classroom. It provides opportunities and incentives to connect learning in the Core with the major, and build knowledge and skills throughout the academic career.

**Meeting USM Core Requirements**

Core requirements are met by passing (with a grade of D minus or better) courses that satisfy specific Core requirements. Lists of courses that satisfy the requirements appear at the end of this section of the catalog and in Maine Street Class Search. Students in the University Honors Program or the Russell Scholars Program should refer to the corresponding section of this catalog for information on how Honors and Russell Scholars courses satisfy USM Core requirements. Some majors require students to complete specific courses for Core requirements. Consult the appropriate section of this catalog for information on such degree-program requirements.

**USM Core Requirements and Sequencing**

USM Core requirements are sequenced. Students should pay careful attention to the associated course pre- and co-requisites in planning their course of study.

- **Entry Year Experience**
  - All new, entering students with fewer than 24-transfer credit hours (AP and test credits not included) must complete an EYE course in their first semester. Students who have completed an EYE equivalent at another institution are not required to complete the EYE requirement. Pre- or co-requisite: College Writing.

- **College Writing**
  - All students must complete a College Writing course, either at USM or in transfer. College writing is a pre- or co-requisite for the Entry Year Experience requirement. The College Writing requirement can be met in any one of three ways:
    - Successfully complete ENG 100, ENG 101, ESL 100, HON 100, LCC 110, or RSP 100
    - Score 50 or above on the CLEP General English Composition Test (See Prior Learning Assessment for details) 3 credits
    - Earn credit for the requirement through AP or transfer or by receiving a score of B or better on the Excelsior English Composition examination (see Prior Learning Assessment or Transfer Admissions for details).
  - Non-native English speakers whose SATs fall below 500 or whose TOEFL score is below 79 must take the ESOL program’s placement test before registering for an English class. See the Academic Policies section of the catalog for more information.

- **Quantitative Reasoning**
Students must meet USM’s mathematics readiness requirement before registering for a Quantitative Reasoning course. See University Degree Requirements in this catalog for information on readiness. The Quantitative Reasoning requirement can be met in one of three ways:

- Pass a locally administered examination (no credit)
- Successfully complete an approved quantitative reasoning course
- Pass a CLEP examination in mathematics (see Office of Prior Learning Assessment for details). Students whose majors require a specific mathematics course should consult their advisor for guidance in selecting a course in this area.

**Creative Expression, Cultural Interpretation, Science Exploration, Sociocultural Analysis**

These requirements may be completed in any order. Some majors may require completion of particular courses or a particular sequencing of these requirements. Students who transfer in 24 or more credit hours (excluding AP and test credits) are not required to take EYE prior to registering for these courses.

- **Creative Expression**: pre- or co-requisite: EYE
- **Cultural Interpretation**: pre- or co-requisite: EYE
- **Science Exploration** (lecture and corresponding lab): pre- or co-requisite: EYE and Quantitative Reasoning
- **Socio-cultural Analysis**: pre or co-requisite: EYE

**Ethical Inquiry, Social Responsibility, and Citizenship**

Prerequisites: Any three of the four requirements of Creative Expression, Cultural Interpretation, Science Exploration, Sociocultural Analysis. Individual courses in this area may include additional prerequisites. Some majors may require students to complete specific courses to satisfy this requirement. See the relevant program section of the catalog for more information.

**Advanced Studies (Thematic Cluster, Cluster Alternative, Minor, Second Major, Academic Certificate)**

The advanced studies requirement in the Core may be met in any of the ways listed below. Prerequisites for courses in these areas vary; see MaineStreet course search for course-specific prerequisites.

**Thematic Cluster**: Satisfying the thematic cluster requirement involves successfully completing any three courses in an approved cluster, from at least two different prefixes; one of the three courses may have the same prefix as the student's major.

**Cluster Alternative**: Students complete three courses from any subject area or areas outside the declared major, at the 200-level or above. Courses may not have the same prefix as the student's major. Overlaps are allowed between these courses and 200-level or higher courses satisfying Ethical Inquiry, Diversity, and/or International. Overlaps are not allowed between these courses and any courses satisfying creative expression, cultural interpretation, sociocultural analysis, science exploration, or quantitative reasoning.

**Minor, second major, or academic certificate**: Students may complete any minor, second major, or academic certificate to satisfy their advanced-studies requirement.

**Diversity**

Prerequisites for courses that satisfy the Diversity requirement vary by course. Please check the individual course listings in Maine Street for course-specific prerequisites. Some courses that satisfy the Diversity requirement may also satisfy other Core or major requirements. Students must complete two distinct courses to satisfy the Diversity and International requirements.

**International**

Prerequisites for courses that satisfy the International requirement vary by course. Please check the individual course listings in Maine Street for course-specific prerequisites. Courses that satisfy the International requirement may also satisfy other Core or major requirements. Students must complete two distinct courses to satisfy the Diversity and International requirements. Study abroad involving an academic experience may be used to satisfy the International requirement. Prior approval form required.

**Capstone**

Prerequisites for Capstone courses are determined by the offering program. Students should check the section of the catalog associated with their major for information on this requirement.

USM Core Curriculum Regulations (back to top)

- The student has primary responsibility for ensuring that she or he completes the minimum college readiness requirements and the USM Core curriculum requirements. Students should consult with an academic advisor for any questions regarding Core requirements.
- Courses taken to satisfy the Core curriculum requirements may not be taken on a pass/fail basis or audited.
- Satisfying a core curriculum requirement involves passing (with a grade of D minus or better) an approved USM course in that requirement area, transferring an equivalent course, or demonstrating other prior learning through approved prior learning assessment.
Returning/reactivating USM students who completed the Core requirements associated with their previous Core requirement term may have their Core requirement term (career term in MaineStreet) prior to 2011. Students whose Core requirement term is prior to 2011 should consult the undergraduate catalog associated with their career year. Students whose Core requirement term is fall 2011 or after must complete the USM Core requirements as outlined in the Undergraduate Catalog for their major.

Transfer Credits and the USM Core (back to top)

Students receive appropriate transfer credit for their Core curriculum requirements through USM’s transfer admission and evaluation process. Transfer credits may be applied to all Core requirements with the exception of the Capstone, which is normally completed within the major and as a part of major requirements.

Inquiries regarding receiving transfer credit for Core requirements should be directed to the Office of Transfer Admission at (207) 780-5340 or transferusm@maine.edu.

Students with 24 or more transfer credit hours or who transfer an EYE equivalent are exempt from the Entry Year Experience (EYE) requirement. AP and other test credits are not counted toward the 24 transfer credit cut off.

Transfer credit for the Ethical Inquiry and the Thematic Cluster requirements must be at the intermediate to advanced level (normally 200-level or above).

Prior Baccalaureate Degree: Students who have completed one baccalaureate degree from a regionally accredited institution and are undertaking work for a second baccalaureate degree are not required to satisfy Core curriculum requirements.

Prior Associate of Arts Degree in Liberal Studies/Liberal Arts: With the exception of the capstone and any other specific courses required by their major, USM Core requirements are waived for students who have completed an associate of arts in liberal studies or liberal arts from a regionally accredited community or other college. This policy does not apply to any other associate degrees.

General Education Transfer Block for Students Transferring from the Maine Community College System

To facilitate transfer from the MCCS to USM, a general education transfer block is in effect beginning fall 2016. Students complete with a grade of C minus or better a block of at least 34 credit hours of specified general education requirements at any Maine Community College and satisfy a corresponding block at USM. For students with a completed block verified by a Maine Community College, USM requires no additional general education credits, except the capstone and any specific courses required by the student’s USM major. Students should contact the registrar at their Maine Community College for information on verification of block completion.

General Education Transfer Block for Students Transferring within the University of Maine System

To facilitate transfer within the University of Maine System, a general education transfer block is in effect beginning fall 2015. Students complete with a grade of C minus or better a block of at least 35 credit hours of specified general education requirements on any University of Maine System campus, and satisfy a corresponding block on any other UMS campus. Up to 10 additional credits may be required by the receiving campus. For students with a verified completed block, USM requires no additional credits, except the capstone and any specific courses required by the student’s USM major. Students should contact the registrar at their UMS campus for information on verification of block completion.

Students with Catalog Year Prior To 2011 (back to top)

Students whose Core requirement term (career term in MaineStreet) is prior to 2011 should consult the undergraduate catalog associated with their career year. Students whose Core requirement term (career term) is fall 2011 or after must complete the USM Core requirements as outlined here.

Returning/reactivating USM students who completed the Core requirements associated with their previous Core requirement term may have their Core requirement term (career term) prior to 2011. Students whose Core requirement term is prior to 2011 should consult the undergraduate catalog associated with their career year. Students whose Core requirement term is fall 2011 or after must complete the USM Core requirements as outlined here.

Students returning/reactivating USM students who completed their core curriculum requirements may have their core curriculum requirements treated as completed with appropriate credit.

Students with Catalog Year Prior To 2011: Students with a Catalog Year Prior To 2011 must complete the core curriculum requirements as outlined in the Undergraduate Catalog for their major.

Waivers of and substitutions for USM Core curriculum requirements may be sought from the Assistant Provost for Core Curriculum at susan.mcwilliams@maine.edu.
Core requirement (career) term set to a pre-fall 2011 date. Contact the Assistant Provost for Core Curriculum at susan.mcwilliams@maine.edu for additional information.

CoursesApproved to Satisfy USM Core Requirements

Lists of courses that satisfy the requirements appear below by requirement area. Please consult with your advisor or use Class Search in Maine Street to determine the availability of Core courses in any given semester.

- **Entry Year Experience**
- **College Writing**
- **Quantitative Reasoning**
- **Creative Expression**
- **Cultural Interpretation**
- **Science Exploration**
- **Socio-cultural Analysis**
- **Ethical Inquiry, Social Responsibility, and Citizenship**
- **Thematic Clusters**
- **Diversity**
- **International**
- **Capstone**

### Entry Year Experience

Entry Year Experience courses engage students in exploration of significant questions about human culture and the natural world. The courses facilitate the students’ transition to college by engaging them in active and collaborative learning that enhances their inclination and ability to view complex issues from multiple perspectives.

- EYE 102 Sustainability, Culture, and the Environment
- EYE 103 Shopping: American Consumerism
- EYE 105 Life is a Matrix
- EYE 108 Culture, Identity and Education
- EYE 109 Gender, Representation, and Resistance
- EYE 110 Literature and Medicine
- EYE 111 A World of Words
- EYE 112 The Built Environment: Energy
- EYE 113 The Pleasure of Eating/Animals
- EYE 115 What Is Sex?
- EYE 116 Nature-Nurture
- EYE 117 Nature, Society, and Self
- EYE 118 Musician’s Health: A Path to Peak Performance
- EYE 120 An EYE for the Arts
- EYE 123 Our Brains at Play
- EYE 125 Getting Down to More Sustainable Business
- EYE 126 What Is Race?
- EYE 127 Friendship
- EYE 129 The Chicken Course
- EYE 130 Discovering The Business of Sport
- EYE 131 Northern Forest Canoe Trail
- EYE 180 Create; Innovation Engineering I
- EYE 199 Topics
- HON 101 Honors Entry Year Experience
- RSP 103 Culture, Community, and the Environment
- LAC 123 College and Community

### College Writing

College Writing introduces students to practices and conventions of expository academic writing. Students read expository writing and use the ideas they encounter to develop and refine their own arguments and perspectives. Students learn how thinking and writing change through the processes of reading, drafting, rereading, revision, editing, and proofreading. At the end of the semester, students in College Writing demonstrate an understanding of sentence structure and syntax as central to meaning. Students can compose, in coherent and correct written English, essays...
that reflect a point of view, engage with readings, and focus on a central thesis or project.

ENG 100 College Writing
ENG 101 Independent Writing
ESL 100 College Writing
HON 100 Thinking and Writing in Honors
LAC 110 Language and Literacies in a 21st Century World
RSP 100 Russell Scholars Writing I

These college writing courses are considered equivalents and may not be repeated for credit. These courses will follow the USM repeat policy as outlined in the Academic Policies section; repeated courses will replace the credits associated with the previously completed course and the previously completed course will be eliminated from GPA calculations.

Quantitative Reasoning (back to top)

Students in quantitative reasoning courses will acquire introductory mathematical concepts and skills that are necessary for everyday life and to successfully complete their chosen field of study. In quantitative reasoning courses, students will gain an awareness of the utility of mathematics in life and an appreciation of the scope and nature of its decision-making potential. These skills include critical thinking, mathematical reasoning, the use of technological tools, computation, interpretation, inquiry, and the application of mathematical concepts to issues and problems in the contemporary world.

ECO 120 Lying with Graphs
GYA 202 Research Methods
HON 105 An Interdisciplinary Introduction to Logic and Mathematics
LAC 120 Statistics for Informed Decision-Making
MAT 105 Mathematics for Quantitative Decision-Making
MAT 120 Introduction to Statistics
MAT 140 Pre-Calculus Mathematics
MAT 148 Applied Calculus
MAT 152 Calculus A
MAT 210 Business Statistics
PSY 105 Statistics in Psychology
SOC 307 Quantitative Research Methods

Creative Expression (back to top)

Creative Expression courses engage students in learning the value of the creative process, using it for developing talents and interests in the arts, and learning a set of skills that will enable them to engage in creative thinking in non-arts aspects of their lives.

ART 141 2-D Design
ART 142 Surface, Space, Time (3D)
ART 151 Drawing I
CMS 150 The Writing Process
CMS 203/204 Introduction to Video Production
CMS 205 Illuminated Autobiography
ENG 201 Creative Writing
ENG 202 Memoir and Autobiography
ENG 301 Poetry Writing
ENG 302 Fiction Workshop I
ENG 303 Fiction Workshop II
HON 207 Illuminated Autobiography
HUM 105 Basic Photography
LAC 250 Thinking about Art
MUS 101 University Chorale (3 cr)
MUS 110 Music Fundamentals
MUT 201 Music Theory and Aural Skills
RSP 101 Russell Scholars Creative Writing
RSP 105 Acting and Performance
THE 102 Acting for Non-Majors
THE 103 Contemporary Dance I
THE 134 Production Management
THE 135 Stagecraft
THE 139 Theatrical Makeup
THE 170 Public Speaking
Cultural Interpretation courses engage students in the close analysis and interpretation of cultural representations to learn how people make sense of themselves and their world. Students critically evaluate and develop arguments about cultural representations or the contexts that produce them or give them meaning.

ANT 280 Prehistoric Art
ARH 111 Art History: Prehistoric through Medieval
ARH 112 Art History: Renaissance to the Present
ASL 102 Beginning American Sign Language II
ASL 201 Intermediate Sign Language I
ASL 202 Intermediate Sign Language II
ECO 105 A Novel Approach to Economics
ENG 140 Reading Literature
ENG 145 Literature and History
ENG 244 Introduction to Cultural Studies
ENG 262 Poetry
FRE 102 Beginning French II
FRE 107 Intensive Beginning French
FRE 201 Intermediate French I
FRE 202 Intermediate French II
FRE 207 Intensive Intermediate French
HON 102 Confrontation and Cross-Fertilization among Medieval Cultures
HON 202 Progress, Process, or Permanence: All that is Solid Melts into Air
ITA 101 Beginning Italian I
ITA 102 Beginning Italian II
LAC 210 Creative Critical Inquiry into Modern Life
LAC 385 Global Past and Present
MUH 105 Multicultural Perspectives of American Popular Music and Jazz
MUH 222 Music until 1900
MUS 100 Music Appreciation and History
MUS 102 Music of the Portland Symphony
MUS 103 Introduction to Jazz
MUS 204 Rock and Roll: Subversive or Submissive
PHI 101 Free Will and Determinism
PHI 102 Introduction to Philosophy: Quest for Certainty
PHI 103 Introduction to Philosophy: Human Alienation
PHI 105 Introduction to Philosophy: Philosophy through Its History
PHI 106 Introduction to Philosophy: Why Philosophize?
PHI 107 Introduction to Philosophy: World Philosophy
PHI 109 Introduction to Philosophy: Law, Politics, and Society
PHI 110 Introduction to Philosophy: Sex, Gender, and Society
PHI 111 Introduction to Philosophy: Philosophical Reading (and Writing)
PHI 112 Introduction to Philosophy: Feminist Perspectives
PHI 310 History of Ancient Philosophy
PHI 320 History of Medieval Philosophy
PHI 330 History of Early Modern Philosophy
PHI 360 Existentialism
PHI 370 Analytic Philosophy
PHI 390 Hermeneutics
RSP 250 Russell Scholars Seminar: Songs and Society
RUS 102 Beginning Russian II
RUS 201 Intermediate Russian I
RUS 202 Intermediate Russian II
SPA 102 Beginning Spanish II
SPA 107 Intensive Beginning Spanish and Laboratory
SPA 201 Intermediate Spanish I
SPA 202 Intermediate Spanish II
To think like a scientist, students must know how science knowledge is created and interpreted. In a Science Exploration course, content should serve as a vehicle to illustrate how experiment, observation, and critical evaluation drive scientific understanding and progress. Science literacy and quantitative reasoning skills will be developed as tools to interpret and apply to natural processes. The Science Exploration course should give the student an appreciation of the applications and limitations of a science that investigates natural processes. To satisfy the Science Exploration requirement, the student must successfully complete the lecture and corresponding lab.

ANT 102 Biological Anthropology (with ANT 102 Lab)
AST 100 Astronomy
AST 103 Astronomy: Activities and Experiments
BIO 101 Biological Foundations
BIO 102 Biological Experiences
BIO 103 Introduction to Marine Biology
BIO 104 Marine Biology Laboratory
BIO 107 Biological Principles II: Evolution, Biodiversity, Ecology
CHY 101 Introduction to Chemistry
CHY 102 Introduction to Laboratory Measurement
CHY 110 Chemistry, Life, and the Environment
CHY 113 Principles of Chemistry I
CHY 114 Laboratory Techniques I
ESP 101 Fundamentals of Environmental Science
ESP 102 Fundamentals of Environmental Science Laboratory
ESP 125 Introduction to Environmental Ecology
ESP 126 Introduction to Environmental Ecology Lab
GEO 102 Physical Geography
GEY 100 Volcanoes, Earthquakes, and Moving Plates
GEY 101 Lab Experiences in Geology
HON 200/201 Interdisciplinary Inquiry in the Sciences of the Human Body/lab
LAC 230 Environmental Science, Policy, and Sustainability with Lab
LIN 185/186 Introduction to Linguistics and Lab
PHY 101 Introduction to Physics
PHY 102 Introduction to Physics Laboratory
PHY 111 Elements of Physics I
PHY 114 Introductory Physics Laboratory I
PHY 121 General Physics I
SCI 130 The Biology of Human Health with Lab
SCI 170/171 Human Anatomy and Lab
SCI 250 Applied Physics

Socio-cultural Analysis courses engage students in the examination of sociocultural systems and phenomena over time and across cultures. Students learn to use conceptual frameworks that shed light on human behavior in social contexts. This includes examination of influences on and effects of behavior associated with public and private roles students may experience.

ANT 101 Anthropology: The Cultural View
ANT 201 Human Origins
ANT 202 Origins of Civilization
ANT 220 North American Indians
ANT 230 Hunters and Gatherers
ANT 232 The Anthropology of Sex and Gender
ANT 233 Food and Culture
CMS 102 Introduction to Communication
CRM 100 Introduction to Criminology
ECO 100 Introduction to Economics
ECO 101 Introduction to Macroeconomics
ECO 102 Introduction to Microeconomics
ECO 103 Critical Thinking about Economic Issues
ECO 104 U.S. in the World Economy
ECO 106 Economic, Social, and Cultural Change
ECO 108 Economic Journalism
ENG 334 Literacy Studies
GEO 101 Human Geography
GEO 103 Human-Environmental Geography
GEO 104 World Regional Geography
GEO 120 Geography of Maine
GEO 203 Urban and Regional Development
GEO 207 Maps: Knowledge, Technology, Society, Culture
GER 102 Beginning German II
GER 107 Intensive Beginning German
GER 201 Intermediate German I
GER 202 Intermediate German II
HON 103 Religious and Scientific Perspectives on Human Origins and the Human Body
HRD 200 Multicultural Human Development
HTY 101 Western Civilization I
HTY 102 Western Civilization II
HTY 121 U.S. History to 1800
HTY 122 U.S. History to 1900
HTY 123 U.S. History since 1900
HTY 141 African-American History to 1865
HTY 142 African-American History from 1865
HTY 152 The Islamic Near East
HTY 171 Traditional East Asia
HTY 172 Modern East Asia
HTY 181 Latin America I
HTY 182 Latin America II
HUM 325 Issues in World History and Geography I
HUM 326 Issues in World History and Geography II
LAC 220 US Democracy: Origins and Development
LAC/SBS 340 Language Acquisition & Literacy Development
LOS 310 Science, Technology, and Society
LIN 112 Analyzing Language
LIN 185 Language, Mind, and Society
LIN 201 Child Language
LIN 203 Introduction to the Deaf World
POS 101 Introduction to American Government
POS 102 People and Politics
POS 104 Introduction to International Relations
POS 205 Introduction to Comparative Politics
RSP 102 Russell Scholars Seminar: Self and Communication
RUS 102 Beginning Russian II
RUS 201 Intermediate Russian I
RUS 202 Intermediate Russian II
RUS 291 Russian and Soviet Culture and Civilization
SBS 200 Multicultural Human Development
SCI 153 AIDS: Biology, Social Policy, and the Law
SOC 100 Introduction to Sociology
SOC 210 Critical Thinking about Social Issues
SPA 270 The Culture and Civilization of Spain
SWO 250 Introduction to Social Welfare
TAH 101 Introduction to Tourism and Hospitality
THE 201 Cultural History of Theatre
WGS 101 Introduction to Women and Gender Studies

Ethical Inquiry, Social Responsibility, and Citizenship courses focus on a theme that engages students in critical reflection on their responsibilities for informed decision-making and action in their public and private roles. They require students to frame, analyze, and evaluate ethical issues, as well as to articulate and evaluate their own viewpoints and actions in relation to the ethical frameworks introduced. Examples of
Ethical Inquiry, Social Responsibility, and Citizenship courses are listed below. Full information on courses that satisfy the Ethical Inquiry, Social Responsibility, and Citizenship requirement may be found online in MaineStreet by using the general education dropdown menu in Class Search. Some majors may require students to complete specific courses to satisfy this requirement. See the relevant department’s section of the catalog for more information.

ADS 300 Ethics and Youth with Exceptionalities
ANT 301 Global Issues in Travel and Tourism
ARH 312 Art as Social Action
BUS 347 Triple Bottom Line Business
CMS 323 Understanding Technology
CMS 360 Ethical Dilemmas in the Digital Age
COR 301 Thoughtful Giving: Philanthropy and American Culture
COS 398 Professional Ethics and Social Impact of Computing
EDU 310 What is the Purpose of Education in a Democracy?
ENG 348 Empire, Ethics and Globalization
ESP 200 Environmental Planning
ESP 212 Environmental Ethics
ESP 308 Global Environmental Problems and Sustainability
GEO 209 Introduction to Land Use Planning
GEO 210 Planning Maine Communities
HON 310 Honors Global Ethical Inquiry
HTY 346 The Civil Rights Movement
LAC 370 Toward a Global Ethics
LIN 410 Ethical Decision Making in ASL/English Interpreting
MUE 310 Proseminar 5 Internship
MUH 329 Devils, Dwarfs, and Dragons
PHI 211 Media Ethics
PHI 212 Environmental Ethics
PHI 221 Philosophy of Film
PHI 235 Philosophy of Social Media
PHI 240 Political Philosophy
PHI 241 Work, Society, and Subjectivity
PHI 245 Africa, Social Justice, and Exile
PHI 275 Compassion
PHI 285 Genetics and Society
PHI 291 Death and Dying
PHI 295 Medicine, Madness, and Disease
PHI 312 Morality in African Literature and Film
POS 280 Issues Before the United Nations
TAH 301 Global Issues in Travel and Tourism
THE 375 Performance Art
WGS 380 Politics of Difference

Thematic Clusters (back to top)

Thematic clusters provide students with opportunities to explore an issue, theme, or topic from a variety of perspectives. The clusters encourage students to integrate their learning by juxtaposing competing and complementary ways of framing complex issues and problems at a more advanced level. To satisfy the Thematic Cluster requirement, students complete three courses in the cluster of their choice. Only one of these three courses may overlap with the student's major requirements. See Class Search in MaineStreet or the USM Core website for details on cluster courses and prerequisites. Students may complete a minor, a second major, an academic certificate, or the cluster alternative in lieu of a cluster.

Aging Well
American Society and Culture
Applied Science and Technology
Casco Bay Region
Early Childhood Education
Education in a Democratic Society
Environment and Society
Film and Society
Geospatial Technologies
Health and Wellness
Humans and Animals
Law
Leadership
Courses that satisfy the diversity requirement engage students in critical examination of and self-reflection on issues of difference and diversity. In the context of the course topic, the diversity requirement will enhance students’ analytic sophistication about issues related to difference and diversity and will foster the interpersonal skills necessary for engaging with diverse populations within the U.S. or in other parts of the world.

ANT 101 Anthropology: The Cultural View
ANT 103 Introduction to Archaeology
ANT 232 Sex and Gender
ARH 310 Art History: Cross Cultural Perspectives
ARH 311 Gender Identity and Modern Art
ANT 450 African American Historical Archeology
EDU 305 Foundations of Cultural and Linguistic Diversity
ENG 383 Harlem Renaissance
EYE 109 Gender, Representation and Resistance
GEO 202 Making a Living
GEO 402 Urban Geography
HON 102 Confrontation and Cross-Fertilization among Medieval Cultures
HON 103 Cultural and Historical Perspectives on Poverty
HON 351 Virtual Sunset vs. Real Sunset
LAC 123 College and Community
LIN 185 Language, Mind, and Society
LIN 203 Introduction to the Deaf World
MUH 105 Multicultural Perspectives on American Popular Music and Jazz
MUH 325 History of Musical Theatre in America
NUR 326 Dominican Republic Community Nursing
NUR 327 Dominican Republic Community Nursing
NUR 339 Community Nursing Partnerships I
NUR 341 Community Nursing Partnerships II
NUR 419 Community Nursing Partnership
NUR 436 Community Nursing Partnership I
NUR 437 Community Nursing Partnership II
PHI 220 Philosophy of Art
PHI 245 Africa, Social Justice, and Exile
PHI 312 Gender in African Film and Literature
POS 104 Introduction to International Relations
POS 280 Issues Before the United Nations
POS 334 Race and Ethnicity in U.S. Politics
SBS 345 Race, Class, Gender: Diversity
SED 335 Students with Exceptionalities in General Education
SOC 150 Social Networks
SOC 371 Sociology of Race and Ethnicity
SWO 365 Examining Oppression and Valuing Diversity
THE 201 Cultural History of Theatre
THE 360 Butches, Bitches, and Buggers
WGS 101 Introduction to Women Studies
WGS 201 Women, Knowledge and Power
WGS 380 Politics of Difference
WGS 390 Contemporary Feminist Theories
Courses that satisfy the international requirement help students become world-minded learners who are knowledgeable about and have a comparative understanding of international social, political, economic or cultural issues in context. Courses that satisfy this requirement develop students’ knowledge and skills in relation to international issues of relevance to the course topic and focus. Study abroad involving an academic experience may be used to satisfy the International requirement. Advanced submission or syllabi or other documentation sent to the Office of International Programs is required to confirm that the program in question satisfies this requirement.

ANT 103 Introduction to Archaeology
ANT 105 Society, Environment, and Change
ANT 232 Sex and Gender
ANT 255 Cultures of Africa
ANT 262 Women, Arts, and Global Tourism
ANT 280 Prehistoric Art
ARH 111 Art History: Prehistoric through Medieval
ARH 112 Art History: Renaissance to the Present
BUS 335 International Business
BUS 361 International Marketing
CMS 286 History of International Cinema to 1945
EDU 310 What Is The Purpose of Education in a Democracy?
ENG 326 Women and Islam
ENG 397 Irish Film
ESP 275 Energy Use and Societal Adaptation
ESP 308 Global Environmental Problems and Sustainability
FRE 202 Intermediate French II
GEO 101 Human Geography
GEO 103 Human-Environment Geography
GEO 104 World Regional Geography
GEO 105 Society, Environment, and Change
GEO 170 Global History
GEO 202 Making a Living
GEO 203 Urban and Regional Development
GEO 285 Global Environmental Issues and Sustainability
GEO 481 Megacities and Global Planning
HON 310 Honors Global Ethical Inquiry
HTY 171 Traditional East Asia
HTY 172 Modern East Asia
HTY 181 Latin America I
HTY 182 Latin America II
HTY 377 Chinese Thought
HTY 388 Revolutions of Modern China
HTY 390 Traditional Japan: Court and Warriors
HTY 394 Japan's Rise and Fall as a World Power
ITP 230 Project Management
LAC 370 Toward a Global Ethics
LIN 112 Birth of a Language in Nicaragua
LOS 470 Leadership and Culture in the UK
MUH 222 Music History Survey I
PHI 220 Philosophy of Art
PHI 312 Gender in African Film and Literature
POS 104 Introduction to International Relations
POS 245 French Politics and Government
POS 280 Issues Before the United Nations
REC 373 Belize
REC 374 New Foundland
SBS 470 Study Abroad: China's Orphans
SWO 322 Culture and Community Services in Belize
SWO 344 Costa Rica
TAH 301 Global Issues in Travel and Tourism
TAH 307 Bermuda Cruise: The Tourism Industry and You
THE 201 Cultural History of Theatre

The capstone experience engages students with a significant theme, issue, topic, or problem. The capstone requires the development of a
Entry Year Experience Course Descriptions

EYE 105: Life is a Matrix

Contrary to our assumptions, we do use mathematics in everyday life: we calculate personal benefits when deciding who to vote for; we consider proportions when drawing, cooking, and calculating drug dosage, to name a few examples. Mathematics is integral to our lives. This introductory seminar will use first hand examples from the social sciences, the arts, humanities and natural sciences to demonstrate how pervasive mathematics is in our lives. This course is a great opportunity for students to see the applications of mathematics in their daily lives.

EYE 108 Culture, Identity and Education

This course focuses on the interrelationships among group affiliation, a quest for inquiry and learning, one’s role in society, and one’s personal identity. The course explores the basic questions of Who are you? and What/who has influenced who you are and whom you wish to become? Students will engage in a personal examination of culture and education as components of personal identity. Drawing from concepts borrowed from sociology and educational psychology, students will be asked to analyze educational materials, settings, aims, and procedures, compare these to their own successes or challenges with institutional learning, and frame their future learning goals.

EYE 109: Gender, Representation and Resistance

Femininity and masculinity mean different things to different people. Why? This course will examine the fundamental impact of gender on human activity—artistic, scientific, religious, economic, political, legal, and linguistic. Drawing on many disciplines we will explore constructions of gender in many cultures and throughout history. Some of the questions on which we’ll focus include: What is gender? How is gender practiced and represented historically and cross-culturally? How have people redefined and altered its representations and meanings? How do social institutions distribute power, resources, and status based on gender? How do the mass media, education, and political discourse shape gender constructions? How have gender resistance and transgression changed accepted gender practices and representations?

EYE 110: Literature and Medicine

How can literature and medicine relate to each other? This course explores the similarities and differences among the sciences and humanities and uses literature as the basis for examining concerns of health, illness, and healing. Topics include the moral and ethical issues of the health care worker-patient relationship, historical approaches to healing, and their implications for modern medical practices, and the cultural, racial, and gendered aspects of these issues.

EYE 112: The Built Environment: Energy

A substantial component of the world we live in is the built environment - the world that people have invented, designed, built and used. People have seen the natural environment to be sacred, to be a part of, to be enjoyed, to be used, and to be dominated. In recent times it has become recognized that human activities can seriously affect the natural environment. This semester we focus on a particular part of the natural environment - energy. You will learn what energy is, where various forms of energy come from and how they are transformed and used. Forms of energy studied include, for example, fossil, solar, wind, hydro, biomass, and nuclear. You will study the social, economic, political and environmental issues related to the acquisition, processing and use of energy. Integral to the course are lectures, reading, writing, group activities, laboratory exercises and experiments, and a team project. Students should have very basic algebra skills. This course is not required for transfer students with more than 24 credits applied toward one of our engineering degree programs. ($150.00 course fee)

EYE 116: Nature-Nurture

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The completion of the human genome project has reawakened a tendency for people to account for mental functioning, behavior, health and disease as the product of biology. But how much of our personality, intelligence, behavior is the product of our biological makeup? To what degree are we shaped by natural, social and cultural influences in the world? What do various answers to these questions suggest about our ability to change? How do these answers influence decisions we might make about utilizing genetic screening and genetic engineering?

EYE 117: Nature, Self, and Society

How do I relate to the natural world? How do I relate to society? How do I act resolutely, self-reliantly, ethically, and in concert with nature? In this course students explore answers to these questions by studying the work of Henry David Thoreau, an activist, a scientist, a writer, and explorer from the 1800’s. In addition to traditional classroom learning, EYE117 involves outdoor and other non-classroom-based learning experiences.

EYE 118: Musician’s Health: A Path to Peak Performance

A practical course aimed at musicians in developing strategies for preparing themselves physically and psychologically to achieve their maximal performance potential. Students will learn the principles and practices of injury prevention, healthy lifestyle and practicing habits, performance psychology, and the interrelationship of physiology and psychology for the performing musician. Co-requisite: FOR NON MUSIC MAJORS: MUP 101, 102; FOR MUSIC MAJORS: MUP 201, 202, or 203.

EYE 120 An EYE for the Arts

This course will engage students in arts on campus and in the community. Students will visit art museums and galleries, music and theater events and they will attend visiting artist lectures and music and theater productions on the USM campus. Students will consider how artists present differing responses to the natural world and about the impact of a world viewed through the eyes of diversely creative people. Students will maintain a journal of their visual and written responses to these visits and events. They will also write a substantial research paper focused on an artist or performer whose work they have viewed during the semester.

EYE 123 Our Brains at Play

This course will explore how play and interpersonal experiences forge key connections in the brain. By examining "our brains at play" students devote equal time to the fields of interpersonal neurobiology and play studies. The course will build communicative competence through experiential and cooperative learning, community engagement opportunities, class discussions on topics of ethical and social importance, and oral and written assignments. Several times throughout the course, students will utilize a modification of the Lego Serious Play method, a kinesthetic and storytelling methodology, for understanding how and why the interpersonal neurobiology of play contributes to the well-being of individuals, relationships, and society.

EYE 127 Friendship

This course is an interdisciplinary examination of friendship that brings resources of philosophy, sociology, and literature to bear on our experience and understanding of this relationship. It addresses the following questions: What is meant by “friendship”? In what ways does the experience and understanding of friendship change over time and across cultures? What is the impact of modern technology on friendship? What are impediments to and pitfalls in this form of human affection? Can friendship be a problem? What conditions help establish friendship and allow it to flourish? Is friendship thinning in modern society and, if so, for what reasons?

EYE 199 Topics

Each instructor uses a theme to engage students in exploration of significant questions about human culture and the natural world. The course facilitates student transition to college by engaging students in active and collaborative learning that enhances their inclination and ability to view complex issues from multiple perspectives. Topics vary, but may include: professional nursing, utopia, creative intelligence, acting, sexuality, cancer and society, book arts, self-expression).
HON 101/EYE

Topics vary. Each instructor uses a theme to engage students in exploration of significant questions about human culture and the natural world. The course facilitates student transition to college by engaging students in active and collaborative learning that enhances their inclination and ability to view complex issues from multiple perspectives. Co-requisites: College Writing. 1st year student, honors student (or permission).

LAC 123 College and Community

Open to all students, this entry phase course introduces students to the promise and possibilities of USM LAC's interdisciplinary, writing-intensive, and student-centered culture. Students will consider the relevance the four themes of the Lewiston Common Core (justice, sustainability, democracy and difference) have to their future lives. Students link their own "stories" -- what has brought them to this point in their personal, academic, and professional lives -- with the habits of mind needed for success in college, career, and global citizenship.

RSP 103 Culture, Community, and the Environment

This seminar explores the inter-relationships between culture, community, and the environment from an educational, theoretical, and practical framework. It focuses on development as a person, as a learner, and as a member of a community. The course explores contemporary global issues from a dialectical perspective. It considers the values and approaches of different cultures in order to better understand the current problems facing any community which will include environmental damage and pollution, population growth, lifestyle impacts on the ecology, ethnic conflict, and other threats to cultural survival and ecological balance.
Honors Program

Program Overview

Director: Rebecca Nisetich, Ph.D.

The Honors program offers small, dynamic courses that meet USM Core requirements. Students in any major participate in honors by completing a specified set of courses to graduate with the Honors Minor.

Our seminar format enables close interaction with peers, individualized attention from excellent faculty, and strengthened communication skills. Students develop thoughts and positions on complex, multi-faceted issues by considering diverse perspectives and conflicting-yet-plausible ideas. Students achieve the confidence that comes from honing ideas through questioning, dialogue, writing, and research. Our interdisciplinary approach taps student curiosity and creativity while complementing any major.

Seniors can maximize their honors experience by writing a thesis that expands upon their major, explores a personal passion, or solves a community challenge. Honors education, especially thesis work, is prized by employers and graduate schools.

Honors is more than a set of stimulating courses; the honors community is a home for engaged learners. The Honors Center is a collegial space for study and relaxation. Students can partake in honors student activities, travel, and community service. Honors is meant to be a satisfying journey in which students rise to their potential as individuals and citizens – becoming the persons they want to be.

Honors courses are offered on the Portland and Gorham campuses. Residential students can choose to reside in the Honors Living-Learning Community in Hastings and Phillip Halls. The Honors dorms include a seminar classroom and lounge space. The Honors Center on the Portland campus offers seminar rooms, lounge space, student study space, and faculty/staff offices.

Please contact the Honors office to inquire about competitive Honors scholarships awarded to continuing students for thesis work and leadership activities. Also ask about program flexibility for students with demanding major requirements or study abroad plans. For additional information, visit http://usm.maine.edu/honors.

Admission to Honors Courses

The Honors Program accepts motivated, intellectually curious students who value individual challenge and enjoy working closely with faculty and peers. Honors student status — and thus the ability to enroll in honors courses — may be requested any time between admission to USM and graduation. Traditional students, transfers, adult learners, and part-time students are all welcome. When students request honors student status, we consider academic credentials (such as GPA) and motivation for honors study (which could be evident from prior academic performance, life experience, faculty recommendation, or an interview). As part of the general USM admissions process, honors status is automatically granted to students with a record of strong performance.

To enroll in your first honors course, visit the Honors Center (253 Luther Bonney Hall) or contact (207) 780-4321 or honors@maine.edu.

Minor in Honors

Description

The Honors Minor is an interdisciplinary pathway through the USM Core Curriculum. In the first two years, students fulfill Core Curriculum requirements with Honors versions of these courses (e.g. EYE, CI, SCA, CE, QR, SE, etc.). In the second or third year of study, students take HON 215: Thinking in Honors, a required interdisciplinary course that prepares students for upper-division signature work (including Honors Thesis, Capstone, independent research and creative projects). To complete the Minor, students may choose from a menu of discipline-specific Honors course offerings including Honors internships, Honors independent studies, Honors study abroad, Honors thesis, and Honors capstone.

Total credit requirements: 15-18 Core Curriculum credits, 6-12 Minor-specific requirements (may be credits towards the major or "elective" credits).

Program Requirements
Lower Division Course Requirements: Flexible; generally students take 1 Honors course per semester. During the first semester, students may choose to take Honors EYE and Honors College Writing concurrently.

- HON 101 (EYE) + 1-credit experiential learning lab
- HON 100 (CW) (optional)
- Choice of 2-3 Honors Core Courses (e.g. CE, CI, SCA, QR, etc.)
- HON 195 Honors Study Abroad (optional, counts for International)
- HON 215 Thinking in Honors (required)

Upper Division Course Requirements: 1 course per semester, with the following options tailored to fit the student's interests, major requirements, etc. Options include:

- HON 310 (EISRC)
- HON 311 Honors Community-based Learning
- HON 321 Honors Internship
- HON 331 Honors Directed Research
- Honors Signature Work: upper-division work in the major counts towards Honors, with permission
- UROP Research Project
- HON 410 Thesis Writing Workshop (3 credits)
- HON 411, 412: Honors Thesis course sequence (6 credits total)
- HON 415 Honors Capstone (1-credit add-on to capstone in the major)

Recommended Course Sequence

NOTE: The following is only one example of many possible pathways. The Honors Minor is designed to fulfill the USM Core Curriculum requirements and to complement any USM major. Students receive individual advising to create a pathway through Honors that works for their degree plan. The Honors Director coordinates with academic departments to establish upper-division Honors coursework done in the major.

First Year

- Fall: HON 101 (required) & HON 100 (optional)
- Spring: 1 lower division Honors course (e.g. HON 107)

Second Year

- Fall: 1 lower division Honors course (e.g. HON 200/201)
- Spring: HON 215 (required)

Third Year

- Fall: 1 upper division Honors course (e.g. HON 310)
- Spring: 1 upper division Honors course or begin Thesis track (e.g. HON 311 or HON 410 Thesis Workshop)

Fourth Year

- Fall: 1 upper division Honors course or continue Thesis track (e.g. HON 321 or HON 411: Thesis I)
- Spring: HON 412 Thesis II or HON 415 Honors Capstone

Transfer and "Late Entry" Students:

The Honors Program welcomes transfer and late entry students. Students entering with 54+ academic credits are required to take a minimum of 10 Honors credits to earn the Honors Minor:

- Required Courses: HON 215, HON 415
- Options for additional 6 credits include: HON 310, HON 321, HON 331, HON 311, HON 410 Honors Thesis Workshop, HON 411 Honors Thesis I

Admission Information
First-year students with a high school GPA of 3.5 and combined SAT scores of 1150 are admitted into the Honors Program, where they take 1 course per semester in coordination with their academic major(s).

Transfer/Late Entry Honors Students with a GPA of 3.5 are eligible to join the Honors Program at the third year, and take 1 course per semester at the 300- and 400-level in coordination with their academic major(s). Transfer/Late Entry students must take a minimum of 10 credits in Honors to earn the Minor. Required courses for the late-entry Minor option are HON 215 and HON 415.

Honors Course Descriptions

USM Core requirements met by Honors courses:

- Entry-Year Experience (EYE): HON 101
- Quantitative Reasoning (QR): HON 105
- Creative Expression (CE): HON 107, HON 207
- Cultural Interpretation (CI): HON 102, HON 202
- Scientific Exploration (SE): HON 200/201
- Socio-Cultural Analysis (SCA): HON 103, HON 203
- Ethical Inquiry, Social Responsibility, and Citizenship (EISRC): HON 310
- Diversity (D): HON 102, HON 103, some HON 101, some HON 299
- International (I): HON 195, HON 310, some HON 299
- Capstone: HON 410/411/412

Course Descriptions

HON 100 - Honors College Writing: This course combines the basic mechanics of a college writing course with the development of skills fundamental to all other work in Honors. The course is recommended for all entering Honors students. Prerequisite: Honors student (or permission). Cr. 3

HON 101 - Honors Entry-Year Experience [EYE]: Each instructor uses a theme (see examples on the Honors website) to engage students in exploration of significant questions about human culture and the natural world. The course facilitates student transition to college by engaging students in active and collaborative learning that enhances their inclination and ability to view complex issues from multiple perspectives. Corequisites: College Writing, first year student, Honors student (or permission). Cr. 3

HON 102/HON 202 - Honors Cultural Interpretation: Cultural Interpretation courses engage students in the close analysis and interpretation of cultural representations to learn how people make sense of themselves and their world. Students critically evaluate and develop arguments about cultural representations or the contexts that produce them or give them meaning. Cr. 3

HON 103/HON 203 - Honors Socio-Cultural Analysis: Socio-cultural Analysis courses engage students in the examination of sociocultural systems and phenomena over time and across cultures. Students learn to use conceptual frameworks that shed light on human behavior in social contexts. This includes examination of influences on and effects of behavior associated with public and private roles students may experience. Cr. 3

HON 107/HON 207 - Honors Creative Expression: Creative Expression courses engage students in learning the value of the creative process, using it for developing talents and interests in the arts, and learning a set of skills that will enable them to engage in creative thinking in non-arts aspects of their lives. Cr. 3

HON 200/201: Honors Science Exploration (+Lab): To think like a scientist, students must know how science knowledge is created and interpreted. In a Science Exploration course, content serves as a vehicle to illustrate how experiment, observation, and critical evaluation drive scientific understanding and progress. Science literacy and quantitative reasoning skills will be developed as tools to interpret and apply to natural processes. The Science Exploration course gives the student an appreciation of the applications and limitations of a science that investigates natural processes. It combines concepts and methods of inquiry from multiple disciplines such as biology, chemistry, psychology, anthropology, ecology, history, or public policy. These explorations are synthesized by students in an independent project. To satisfy the Science Exploration requirement, the student must successfully complete the lecture and corresponding lab. Cr. 4

HON 215 - Thinking in Honors: This course has 2 major goals: first, to engage students in planning their intellectual path through USM and beyond; second, to gain the necessary skills for success in upper level Honors courses and to develop their own signature works. Students will be introduced to the interdisciplinary nature of knowledge. By the end of the semester, students will be able to critically review literature, understand
intellectual property rights, and navigate research participant safety issues. Students will be introduced to a variety of research methods and learn the processes for funding, presenting, and publishing intellectual inquiry. We will explore ethics and values in research and scholarship. In short, this course offers an extended exploration of how we learn what we need know. Our hope is that students in this course will develop a supportive group of intellectual peers and to chart an academic path from themselves in the USM Honors Program and beyond. Cr. 3

HON 299 - Honors Topics: [Core designations vary by topic] Honors program electives include departmental courses that embody the Honors experience. Honors students typically share the course with students majoring in course-related disciplines. The course may be repeated for credit when topics differ. Prerequisites vary by course topic, but include Honors student (or permission). Cr. 3

HON 310 - Honors Ethical Inquiry, Social Responsibility, and Citizenship: Ethical Inquiry, Social Responsibility, and Citizenship courses focus on a theme that engages students in critical reflection on their responsibilities for informed decision-making and action in their public and private roles. They require students to frame, analyze, and evaluate ethical issues, as well as to articulate and evaluate their own viewpoints and actions in relation to the ethical frameworks introduced. Cr. 3

HON 311 - Honors Community-Based Learning: Students, working individually or in a group, receive permission from the honors director, recruit a faculty sponsor, locate a placement in the Casco Bay region, and develop a learning contract. Prerequisite: sophomore standing (ideally 2nd semester sophomore) and honors student (or permission). Cr. 3

HON 321 - Honors Internship: Students receive permission from the honors director, locate an internship placement with support from Career Development, and develop a learning contract. Prerequisite: junior standing (ideally 2nd semester junior) and honors student (or permission). Cr. 3

HON 331 - Honors Directed Research: This optional course allows an Honors student with interests in a particular subject area to research that area under the direction of a faculty supervisor. The research may be carried out in any subject area. Prerequisites: Honors student and permission. Cr. 1-3

HON 415 - Honors Capstone: This one-credit add-on augments any regular three-credit Capstone course by allowing students to reflect on their learning in previous Honors and other Core Curriculum courses. Students will assess how skills and perspectives first developed in general education are informing their Capstone projects as well as project forward how they will use their undergraduate education as participants in future academic, professional, and political communities. Students will meet as a support and discussion group as well as write reflections and present their Capstone work to an outside audience. Cr. 1

Thesis Sequence

HON 410 - Honors Thesis Writing Workshop: To graduate with General University Honors, a student has the option to complete a multiple-semester thesis project in lieu of an Honors Capstone. In the first-semester workshop, each student develops research skills, shapes a preliminary idea into a formal thesis proposal, and organizes a faculty committee to advise the student in HON 411/412. Course may be taken for credit twice. Prerequisites: three credits of honors coursework, junior standing, and Honors student (or permission). Cr. 3

HON 411 - Honors Thesis I: In the second semester, students independently execute the plan developed in HON 410, under the guidance of the thesis committee. The emphasis is on in depth reading, field work as applicable, and completion of the introductory thesis chapter and literature review. Note: it is possible to complete the thesis in HON 411, without proceeding to HON 412. Prerequisites: HON 311 (B- or higher grade) and Honors student (or permission). Cr. 3

HON 412 - Honors Thesis II: In the third and final semester, still working with their thesis committee, students write their remaining chapters; submit a completed draft; substantially revise that work based on feedback; and present their work in an oral, public defense. Prerequisites: HON 411 and Honors student (or permission). Cr. 3
Russell Scholars Program

Russell Scholars Program

Director: TBD, 103 Woodward, Gorham
Associate Director: Elizabeth K. Dodge (Basic Studies)
Russell Scholars Faculty: Dodge (Basic Studies), Wooten (Basic Studies)
website: http://usm.maine.edu/rscholar

The Russell Scholars Program (RSP) is a residential, undergraduate learning community of highly motivated students and faculty dedicated to the achievement of educational goals through collaborative learning, out-of-class activities, and community service. The Russell Scholars Program is designed for average-to-excellent students who wish to pursue their studies in a small learning community, and who wish to receive regular coaching in the mastery of critical thinking. Russell Scholars will develop a commitment to learning and community service, an ability to transfer competence, an intercultural knowledge, a personal and ethical integrity, and an ability to work as part of a team. Approximately fifty first- and second-year students from all majors are admitted to the Russell Scholars each year and work with their individual RSP faculty mentors.

Extensive co-curricular and social activities enrich the learning community experience. All Russell Scholars are encouraged to have optional out-of-state or out-of-country learning experiences for which they receive full academic credit. First-year Russell Scholars are required to reside at Woodward Hall, a remodeled residence hall located on the Gorham campus. Here students can study; socialize; meet with mentors; and attend seminars, concerts, and readings. There are frequent opportunities for Russell Scholars, their faculty members, and guests to discuss ideas and issues in a relaxed social setting. Special events in the arts, sciences, and humanities are produced by Russell Scholars and are made available to the entire community.

To graduate as a Russell Scholar, a student must successfully complete two writing courses or equivalents, three RSP seminars, and six credits of Learning Community Labs, the final lab to be taken during the senior's spring semester. Students who are not taking an RSP Lab who wish to earn service-learning credit must register for RSP 400 Independent Study with the instructor's permission. Students planning to graduate as Russell Scholars are required to take RSP 110, RSP 111, RSP 210 or 211, RSP 310 or 311, and RSP 411.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RSP 100 College Writing</td>
<td>3</td>
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<tr>
<td>RSP 101 Russell Scholars Creative Writing</td>
<td>3</td>
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<tr>
<td>RSP 103 (EYE) Seminar: Culture, Comm., and Environment</td>
<td>3</td>
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<tr>
<td>RSP 110 Learning Community Laboratory</td>
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<td>RSP 111 Learning Community Laboratory</td>
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<td>RSP 210 Learning Community Laboratory</td>
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<td>RSP 211 Learning Community Laboratory</td>
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<tr>
<td>RSP 250 Seminar: Songs and Society</td>
<td>3</td>
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<tr>
<td>RSP 340 Global Campus</td>
<td>Variable</td>
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<tr>
<td>RSP 310 Learning Community Laboratory</td>
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<td>RSP 311 Learning Community Laboratory</td>
<td>1-2</td>
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<td>RSP 400 RSP Independent Study</td>
<td>1-3</td>
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<td>RSP 401 Community Service Internship</td>
<td>Variable</td>
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<tr>
<td>RSP 402 Russell Scholars Capstone Seminar</td>
<td>3</td>
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<tr>
<td>RSP 410 Learning Community Laboratory</td>
<td>1-2</td>
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<tr>
<td>RSP 411 Learning Community Laboratory</td>
<td>1-2</td>
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</tbody>
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Core Curriculum Requirements

Many Russell Scholars courses will satisfy the USM Core/General Education requirements. Students should consult with their mentors concerning the use of additional Russell Scholars courses to satisfy additional Core curriculum requirements.

Departmental Major

Russell Scholars courses are not intended to be counted toward the number of credits that departments require for graduation as a major. Students enrolled in the Russell Scholars Program should consult with their departmental advisors concerning the use of Russell Scholars courses to satisfy departmental major requirements.

Admission to the Russell Scholars Program
Any full-time, residential student in good academic standing is eligible to apply to be a Russell Scholar. Criteria for admission include completion of application to the program and an interview with a member of the Russell Scholars faculty.

Students interested in the Russell Scholars Program must complete an application separate from the application to the University. Those with questions about the Russell Scholars Program may call or write The Russell Scholars Program, University of Southern Maine, Woodward Hall, 37 College Avenue, Gorham, ME 04038, (207) 780-5752 or 5751. Application materials will be forwarded upon request. Once the completed application is received, students will be contacted for an interview, which may take place in person or by telephone. Applications are acted upon as they are received; hence, they should be submitted as early as possible.

To remain in the Russell Scholars Program, a student must remain in good standing with the University and demonstrate a genuine desire to remain in the program.

For more information, visit http://usm.maine.edu/rscholar/russell-scholars-application.

**Course Descriptions**

**RSP 100 College Writing**
This course introduces students to the style and standard of writing expected of them in college. Students read expository writings grouped around a theme and use the ideas they encounter to develop and refine analytical essays in response. Emphasis is placed on building the skills of critical analysis and the writing process, specifically reading, drafting, rereading, revision, editing, and proofreading. Students are encouraged to integrate ideas from RSP Seminar into class discussions and individual essays, when appropriate. At the end of the semester, an RSP 100 student will be able to engage with complex readings and compose analytical essays that focus on a central theme using language that is relatively free of sentence-level error. Prerequisite: college readiness in writing. Fall semester. Cr 3.

**RSP 101 Russell Scholars Creative Writing**
This course is offered as a continuation of RSP 100 to help students define and meet their writing goals. Classes meet once a week, and include individual conferences. Creative Writing emphasizes style, organization, and development, with some emphasis on mechanics. Students must exercise the self-discipline necessary to work independently. Cr 3.

**RSP 103 (EYE) Russell Scholars Seminar: Culture, Community, and the Environment**
All first-year Russell Scholars and transfer students are required to take this course. This course will utilize scientific and humanistic anthropological theories and understandings to explore contemporary issues and dilemmas concerning the environment. It will consider values and approaches of different cultures in order to better understand the current problems of environmental damage and pollution, population growth, lifestyle impacts on ecology, ethnic conflict, and other threats to cultural survival and ecological balance. The seminar will attempt to analyze contemporary problems locally and globally, and to explore possible resolutions to these problems. An example of cultural types will be examined, including forager, agriculturalists, and industrial nation-states, in terms of their relationship with and values about the environment. Cr 3.

**RSP 110 Russell Scholars Learning Community Laboratory**
This forum for all Russell Scholars convenes bi-weekly in an informal environment to address topics such as campus issues, current events, and student interests. Russell Scholars Lab also takes students out of the classroom atmosphere by integrating field trips to enhance the learning experience. Cr 1.

**RSP 111 Russell Scholars Learning Community Laboratory**
RSP 111 is a continuation of RSP 110. Cr 1.

**RSP 210 Russell Scholars Learning Community Laboratory**
RSP 210 is a continuation of RSP 111. Cr 1.

**RSP 211 Russell Scholars Learning Community Laboratory**
RSP 211 is a continuation of RSP 210. Cr 1.

**RSP 250 Russell Scholars Seminar: Songs and Society**
This is an interdisciplinary, literature-based course focusing on the role of songs in world cultures. It is designed to introduce students to the influence that songs have upon societies, and likewise, the influence of societies upon the creation and use of songs. Like most art forms, songs are reflections of the prevailing values of a given society at any given time in history. The course examines songs as vehicles to motivate and mobilize people, to help them escape from drudgery, to worship, to express political sentiment, to approve or to protest, to celebrate, and to entertain. Students identify and analyze the range of song genres from martial songs and anthems to love songs, lullabies, and protest songs. The course traces the evolution of the traditional story-song from the epic ballads to its present incarnation as both high and pop culture. Students will
also explore songwriting as both an art form and as a business driven by societies' unquenchable appetite for songs, both old and new. Prerequisite: 24 credits or permission of instructor. Cr 3.

**RSP 300 Russell Scholars Seminar: England and the Humanities**

Specifically designed for Americans studying in England, this course is designed to explore the interrelationships between the arts and humanities of the British Isles. The humanities comprise those areas of study that are literally the creation of human beings, as distinguished from science and its systematic revelation of the patterns of nature. Subsequently, this course will include, but will not be limited to, the roles played by literature, history, ethics, social science, religion, the fine arts, and folk arts in shaping British culture. Cr 3. For more information, see: [http://usm.maine.edu/rscholar/study-abroad](http://usm.maine.edu/rscholar/study-abroad).

**RSP 305 Britain: The Interactions of Politics and Culture**

This course is specifically designed for Americans studying in England and introduces students to the economic, political, and psychological environment and cultural lifestyle of contemporary Britain. Common use of "English" language in both the United States and Britain often conceals essential differences that exist in culture and in attitudes. These differences will be identified and explored through the study of a variety of topics both in the classroom setting and outside. Students will be encouraged to focus their own observations in order to deepen and broaden their understanding of Britain, its inhabitants, its politics, and its culture, and to do so in a way that will enable them to reflect more fully upon their own country, politics, culture, and way of life. Cr 3. For more information, see: [http://usm.maine.edu/rscholar/study-abroad](http://usm.maine.edu/rscholar/study-abroad).

**RSP 310 Russell Scholars Learning Community Laboratory**

RSP 310 is a continuation of RSP 211. Cr 1.

**RSP 311 Russell Scholars Learning Community Laboratory**

RSP 311 is a continuation of RSP 310. Cr 1.

**RSP 340 Cultural Landscape of Greece**

Students will be introduced to the multifaceted nature of this intriguing country. Greece, the birthplace of our western civilization, is a modern, emerging European nation and is already a major tourist destination. Students will travel to the bustling capital of Athens for three days, but spend most of their time on the quieter island of Lesvos. Here they will live in the small city of Mytilene (now a Sister City with Portland, Maine); gather to share meals in a seaside or city café; take field trips to villages, ancient sites, museums, and beaches; learn about the physical and societal framework of the culture; attend lectures on human geography, geological, cultural traditions, current forces of change, impact of tourism, environmental issues, and regional politics. Cr 3. For more information, see: [http://usm.maine.edu/rscholar/study-abroad](http://usm.maine.edu/rscholar/study-abroad).

**RSP 345 Russell Scholars Global Campus**

This course takes place at any one of several international sites. It offers Russell Scholars students an opportunity to travel while experiencing the rich cultural differences of our diverse world. An example of a course is one held at Wroxton College in England during Winter Session. It examines British culture, government, economy, and literature. Students attend a performance by the Royal Shakespeare Company in Stratfordin-Avon, spend a weekend in London, and take several other side trips. Another example of this course takes students to Greece. Students will be introduced to the multifaceted nature of this intriguing country. Although ancient Greece is the birthplace of our western civilization, Greece today is also a modern, emerging European nation. Students will travel to the bustling capital of Athens for a few days, but spend most of their time on the quieter island of Lesvos. Here they will live in the small city of Mytilene (now a sister city with Portland, Maine) where they will be near markets, shops, and cafes. Daily they will gather to share meals in their pensione, or in seaside or city cafes; and take field trips to villages, ancient sites, archeological and art museums, and beaches. Cr 6. For more information, see: [http://usm.maine.edu/rscholar/study-abroad](http://usm.maine.edu/rscholar/study-abroad).

**RSP 400 Russell Scholars Independent Study**

Cr. Var.

**RSP 402 Russell Scholars Capstone Seminar: Community and Commitment**

This capstone seminar will bring together the framework, principles, and experiences of four years in the Russell Scholars Program to prepare graduating seniors to become lifelong learners with a commitment to the common good. Drawing upon the lessons of identity and community, and other themes of the program, this classroom and field-based seminar will explore such questions as: What is the common good? How can we be at home in the world? How can we live within and beyond the tribe? What is our responsibility in the world? What does citizenship in the twenty-first century mean? How do we develop critical habits of mind? This seminar will include a significant service-learning field experience in a community setting. Cr 3.

**RSP 410 Russell Scholars Learning Community Lab**

RSP 410 is a continuation of RSP 311. Cr 1.

**RSP 411 Russell Scholars Learning Community Lab**

RSP 411 is a continuation of RSP 410. Cr 1.
Women and Gender Studies Program

WGS Studies Overview

Director: Lisa Walker, 94 Bedford St., Portland

The Women and Gender Studies Program offers students an opportunity to examine the lives, words, and ideas of women too often hidden from history, and to explore ways of thinking about gender. Our interdisciplinary program focuses on such issues as the gendered construction of science, women's cultural creativity, histories of gender inequality and social transformation, visual representation and popular culture, queer and transgender politics, gendered inequities in work and pay, eco-feminism and the natural environment, and critical intersections of race, ethnicity, nationality, religion, class, sexuality, and gender.

As they develop skills in feminist analysis, critical thinking, and writing, Women and Gender Studies students investigate and challenge long-standing assumptions about gender and society. Students also encounter new ways of research, analysis, and communication, from community-based learning, to archival research and digital history projects. Our students often apply their theoretical knowledge through internships with local organizations and agencies. Women and Gender Studies majors are prepared for graduate and professional schools in a variety of disciplines, as well as for careers in business, in public service, and in nonprofit organizations.

Committed to an international/global perspective, the program has hosted visiting scholars from many countries, including Russia, Croatia, Zimbabwe, Nigeria, Scotland, Pakistan, Egypt, Israel, Iraq, and Sweden. In addition, Women and Gender Studies received a federal grant to encourage cooperation between USM and women faculty in the United Arab Emirates.

Each semester, co-curricular presentations by nationally and internationally acclaimed scholars, activists, and performers enrich our classroom experiences. Recent programs include “Feminist Perspectives on Sports and Fitness,” (panel with Courtney Marshall, Erica Rand, and Alex Poulis); "Witches and Witch Hunts across the Ages” (lecture, Michele Tarter); “New Mainers’ stories of survival and arrival by Mainers from Africa, Europe, and Asia); "Damned Dreams and Dangerous Desires” (performance, Kate Bornstein); "Globalization, Social Justice, and the Environment” (lecture, Nawal El Saadawi); and poetry readings by Sonia Sanchez and Jackie Kay.

Our annual celebration of women’s history month reminds the university and the wider community of the past as well as present lives of women. Speakers have included “Building a World Where Black Lives Matter,” (lecture, Alicia Garza); “Gender Equality in a Global Economy,” (lecture, Sarita Gupta); "Labor Feminism and the Future of Women's Rights" (lecture, Dorothy Sue Cobble); and "Is God Love” (lecture, bell hooks).

Prerequisites and Grade Policy

There are prerequisites for many of the women and gender studies courses. See departmental course listings for specific information. A minimum grade of C or better is required in major/minor courses. Courses taken pass/fail must be approved by the Director.

Curriculum Summary and Guide

The Women and Gender 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 and gender studies as a discipline, 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 and Gender Studies (WGS 101 or EYE 109) and College Writing (ENG 100). In the second year, students should take Women, Knowledge, and Power (WGS 201), followed by Contemporary Feminist Theories (WGS 390) and Politics of Difference (WGS 380). Students who minor in another discipline should also begin the suggested sequence in that year. Third-year schedules should include at least two women and gender-studies-sponsored topics courses, drawn from two of our four subject areas. Thus a student might take WGS 335 Topics in Gender and Science, Technology, and Health I, in the fall, and WGS 465 Topics in Women, Gender, and Institutions III, in the spring. Fourth-year students are required to take the Capstone Experience in Women and Gender Studies (WGS 490) and select 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 should be aware that while any course offered under these "topics" will address the general goal outlined in the catalog, the specific content of the topics courses will change from semester to semester. Course descriptions will therefore be published and distributed during the preregistration period.

To graduate from this program, the student must have:
completed 36 hours of required coursework, as described above;
attained a cumulative GPA of B- (2.67) in all required WGS courses.

Students who wish to graduate with honors in this major must:

- maintain a cumulative GPA in WGS coursework of 3.50;
- maintain a cumulative institutional GPA of 3.00;
- have demonstrated superior work in the thesis or internship;
- be recommended by a faculty member who teaches courses within the program; and
- be approved by the Women and Gender Studies Council.

**BA in Women and Gender Studies**

**Description**

See Program Requirements

**Program Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

The women and gender studies major consists of 24 hours of required courses and 12 hours of women and gender studies related courses as follows:

**Required Courses (18 hours)**

Either of the following (3 hours)
- WGS 101 Introduction to Women and Gender Studies
- EYE 109 Gender, Representation, and Resistance

All of the following
- WGS 201 Women, Knowledge, and Power
- WGS 380 Politics of Difference
- WGS 390 Contemporary Feminist Theories
- WGS 490 Capstone Experience in Women and Gender Studies

One Topics Course from TWO of the following subject areas (6 hours)
- WGS 235/335/435 Topics in Science, Technology, and Health I/II/III
- WGS 245/345/445 Topics in Culture, and the Arts I/II/III
- WGS 255/355/455 Topics in History and Resistance I/II/III
- WGS 265/365/465 Topics in Gender and Institutions I/II/III

Either of the following (4-6 hours)
- WGS 485 Internship
- WGS 486 Thesis

Women and Gender Studies Related Courses: (at least 12 hours)

- Students must take one course dealing with cultures not in the Western mainstream. Students may take no more than three electives from one department or program. Any WGS course may be used for elective credit; courses eligible for elective credit are listed under Course Descriptions.

**Minor in Women and Gender Studies**
Description

See Program Requirements

Program Requirements

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

The women and gender studies minor consists of a minimum of 9 hours of required courses and 9 hours of related courses as follows:

Required Courses

Either of the following (3 hours)
- WGS 101 Introduction to Women and Gender Studies
- EYE 109 Gender, Representation, and Resistance

And the following (3 hours)
- WGS 201 Women, Knowledge, and Power

Either of the following (3 hours)
- WGS 380 Politics of Difference
- WGS 390 Contemporary Feminist Theories

Women and Gender Studies Related Courses (at least 9 hours)
Two of the courses must be at the 300-level or above. Students may take no more than two electives from one department or program.

Course Descriptions

WGS 101 Introduction to Women and Gender Studies
From a variety of perspectives, this course explores the following inter-related themes and topics: the economic, political, and social status of women/men as a group and in discrete cultural contexts; the politics of representation, or how ideas about femininity/masculinity and feminism are promoted throughout the media and other vehicles of culture; the construction of "consciousness," both through the media and through feminist tactics; collective action in the past, present, and future. This course is writing-intensive. Students are expected to practice their writing skills through formal essays. Prerequisites: English 100 or concurrent. Offered every semester. Cr 3.

WGS 201 Women, Knowledge, and Power
This course examines the ways in which the politics of knowledge production shape culture and gender relations. It explores the ways women and men have historically resisted, subverted, appropriated and reformed traditional bodies of thought. Prerequisites: WGS 101, EYE 109 or permission of instructor. Offered every semester. Cr 3.

WGS 220 Topics in Women and Gender Studies
Topic areas not already covered by regular course offerings will be offered. May be repeated for credit when topics vary. Cr 1-3.

WGS 235, 335, 435 Topics in Science, Technology, and Health I, II, III
Courses in this category will include a critique of traditional science, technology, and medicine, as well as offering feminist perspectives on knowledge, health, and power. Each of these courses will ask similar questions about how scientific thinking and gendered technologies affect bodily experience; how science's view of the female/male, feminine/masculine and gender-queer is problematized by reading works of fiction; how science creates racialized and sexualized subjects; and how science can be used to "talk race and fight racism." (bell hooks) May be repeated for credit when topics vary. Prerequisite: WGS 435 requires permission of the instructor. Cr 3.

WGS 245, 345, 445 Topics in Culture and the Arts I, II, III
Courses in this category will examine vehicles of culture from the perspectives of gender including feminine, masculine, and trans. These perspectives will be used to interpret the plastic, literary, and performing arts. Course readings may focus on gender and the production of culture; on how gender has been represented in written, visual, or oral texts; or on gender and aesthetic theory. Possible subjects may include feminist philosophy, feminism and film theory, gender and the history of music, and gender in popular culture. May be repeated for credit when topics vary. Prerequisite: WGS 445 requires permission of the instructor. Cr 3.

WGS 255, 355, 455 Topics in History and Resistance I, II, III

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These courses explore the history of forms of gender and women's activism located not only in governments, political parties, and unions but also in collaborative activities and grassroots organizations. Emphasis is on the relationship between gender activism and social, economic, and cultural change. Topics include the way struggles for national liberation have deployed concepts of gender; working class women in contemporary and historical movements; struggles for equal rights including gay rights and trans rights; the 19th-century women's movement; women in peasant revolts; everyday forms of gender resistance; union organizing; the politics of identity as practiced by women, men, gays and queers. May be repeated for credit when topics vary. Prerequisite: WGS 455 requires permission of the instructor. Cr 3.

WGS 265, 365, 465 Topics in Gender and Institutions I, II, III
Courses in this category will focus on gender relations and the social and institutional construction of the category "women." Social structures and institutions create and reinforce assumptions about sex and gender, women and men, and masculinity and femininity, thus ultimately shaping the gender experiences available in society. The emphasis may be on industrial or non-industrial societies and institutions, law and legal institutions, economic institutions, subsistence strategies in non-industrial societies, systems of stratification, conceptual systems, or education. May be repeated for credit when topics vary. Prerequisite: WGS 465 requires permission of the instructor. Cr 3.

WGS 320 Advanced Topics in Women and Gender Studies
Advanced topic areas not already covered by regular course offerings will be offered. May be repeated for credit when topics vary. Cr 3.

WGS 380 The Politics of Difference
Central to the course are the ways that "differences" are embedded and enacted in the context of power relations. While the specific content of this course is flexible, it will analyze the advantages and disadvantages of using race, ethnicity, nationality, class, age, and sexuality as categories of analysis. Prerequisites: WGS 101 or EYE 109, WGS 201 or permission of the instructor. Offered fall semester. Cr 3.

WGS 390 Contemporary Feminist Theories
This course will introduce students to such feminist theoretical approaches as post-structuralism, Marxism, psychoanalysis, critical race theory, and post-colonialism. The focus of the course is the intimate relationships between feminist theories and feminist practices, locally and globally. Prerequisites: WGS 101 or EYE 109, WGS 201 or permission of the instructor. Offered spring semester. Cr 3.

WGS 420 Advanced Topics in Women and Gender Studies
Advanced topic areas not already covered by regular course offerings will be offered. May be repeated for credit when topics vary. Cr 3.

WGS 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 instructor. Cr 1-6.

WGS 485 Internship
The internship requires students to work closely with a group, business, or organization for one semester. Students will write a research paper on a topic related to their internship experience and will present that research in the spring semester. Prerequisites: senior standing and women and gender studies major or minor. Offered spring semester. Cr 4-6.

WGS 486 Thesis
The thesis allows students to pursue guided research on a topic of their choosing. Students writing a thesis should plan a two-semester sequence; WGS 486 should be preceded either by an independent study in the student’s area of interest, or in HON 311, a thesis workshop class. Thesis students should choose three readers, including an advisor whose interests and scholarship are in line with their own. The minimum length for a thesis is 30 pages, and should include a substantial bibliography. Students will present their research in the spring semester. Prerequisites: senior standing and women and gender studies major or minor. Cr 4.

WGS 490 Capstone Experience in Women and Gender Studies
All majors are required to select a capstone experience, with the guidance of their advisor, from the following two options: WGS 485 or WGS 486. Students enrolled in either option are required to participate in a weekly seminar. Students are expected to co-enroll in WGS 490 and WGS 485 or 486. Offered in the spring semester only. Cr 2.

Related Courses
ANT 232 Anthropology of Sex and Gender
ARH 321 Classical Art
ARH 311 Gender Identity and Modern Art
CMS 310 Cinema and Women
CMS 486 Women in Film
CMS 484 Activism and Film
CRM 317 Gender and Crime
ECO 322 Economics of Women and Work
ENG 342 Recent Theories on Gender & Sexuality
CAHS Overview

Dean: Adam Tuchinsky; Associate Dean: Julien Murphy; Financial Manager: Keva Wright Berry; Administrative Specialists: Penny Glover, Elaine Lohrman, Stephanie McLeod

The College of Arts, Humanities, and Social Sciences is dedicated to the ideal of a liberal arts education and serves as the intellectual core of the University by offering general education courses to all undergraduate students. The College houses two graduate programs and eight undergraduate academic units in the areas of fine and performing arts, humanities, and social sciences. The faculty of the College is committed to the preservation and dissemination of fundamental knowledge and dedicated to enhancing this knowledge through creative expression, scholarly interpretation, and research. By demanding teaching excellence, the College instills in all students the attributes of creative critical thinking, effective oral and written communication skills, and social values that embrace diversity and multiculturalism. Through the various disciplines, the College contributes to the formation of responsible citizens by providing an educational foundation upon which students build their lives and professions.

The College of Arts, Humanities, and Social 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, Humanities, and Social Sciences has the following undergraduate schools and departments:

- Art
- Communication and Media Studies
- Criminology, Economics, and Sociology
- English
- History and Political Science
- Music
- Philosophy and Liberal Studies-Humanities
- Theatre

Baccalaureate Degree Programs

Programs of study leading to a bachelor of arts (BA) degree are available in the areas listed below. In addition, bachelor of fine arts (BFA) is offered by the Art Department, bachelor of science (BS) is offered by the Department of Economics, and bachelor of music (BM) in performance and a bachelor in music education are offered by the School of Music.

Teacher education tracks are also available in Art, English, History, Liberal Studies-Humanities and Music.

- Art
- Communication
- Criminology
- Economics
- English
- History
- Liberal Studies-Humanities
- Media Studies
- Music
- Musical Theatre
- Philosophy
- Political Science
- Sociology
- Theatre

Requirements for all Baccalaureate Degree Candidates

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

- Departmental or program requirements
- Minimum of 120 credits of accepted courses
- Minimum of 2.0 cumulative grade point average

Core Curriculum Requirements

Every baccalaureate degree student who is admitted to the University is required to meet the Core curriculum requirements, including college readiness courses if necessary. These are listed 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 as noted in the catalog section devoted to each department's majors. These requirements may be greater than the college minimum requirements.

Declaration or Change of Major

Students normally declare a major program prior to completing 53 credits. Students who wish to declare or change their major within the College must obtain a Change of Major form from the Registration & Scheduling Services Office. Students must have a USM GPA in good standing prior to declaring or changing a major within the College of Arts, Humanities, and Social Sciences.

Fine arts students, especially in the Department of Art and the School of Music, usually must begin their program earlier, owing to portfolio and audition requirements.

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. It is recommended that students meet with a faculty member in the Department to request admission to the major and/or to ask questions about the appropriateness of the new major to their long-term goals. Students may also benefit from consulting Academic Advising for information.

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.

Other Educational Opportunities

Independent Study

Students who have an academic project that 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 Registration & Scheduling Services Office.

College of Arts, Humanities, and Social Sciences Minors

Students interested in one or more minors should consult the appropriate departments and obtain a Declaration of Minor form from the Registration & Scheduling Services Office.

- Art History
- Audio and Video Production
- Book Arts
- Cinema Studies
- Communication and Media Studies
- Criminology
- Dance
- Economics
- English
- Food Studies
- Game Design
- History
- Labor Studies
Teacher Certification

The College of Arts, Humanities, and Social Sciences offers an undergraduate pathway to teacher education.

Students who wish to prepare for a career in teaching at the elementary, middle, and secondary levels work with both the College of Arts, Humanities, and Social Sciences and the School of Education and Human development in approved pathways that offer coursework and experiences at the undergraduate and post-baccalaureate levels.

Undergraduates who seek teacher certification in English, History, or Liberal Studies-Humanities follow these steps:

1. Undergraduate Level
   1. College of Arts, Humanities, and Social Sciences students complete a major in approved pathway programs (English, History, Liberal Studies-Humanities).
   2. In addition to a major in one of the above programs, students complete course work through the core requirements (including an educational themed cluster) and complete a professional year experience which includes methods courses, seminar, and internship.

2. Post-Baccalaureate Level
   School of Education and Human Development students must
   1. Complete the one-year certification program (approximately 33 graduate credits), and
   2. 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 School of Education and Human Development section of this catalog.

Graduate Programs in the College of Arts, Humanities, and Social Sciences

The College of Arts, Humanities, and Social Sciences offers two graduate programs leading to the master's degree and two graduate certificate programs. These are the master of fine arts (MFA) in creative writing, the master of music (MM), and a certificate of graduate study in Composing Together. Consult the University's graduate catalog for further information.

Majors, Minors and Certificates

Following is a list of the Majors, Minors, and Certificates offered by the College of Arts, Humanities, and Social Sciences. For complete information on individual programs, contact the relevant departmental office.

Majors

Arts

- BA in Studio Art
- BFA in Studio Art
- BA in Art—Concentration in Art & Entrepreneurial Studies
• BA in Art—Concentration in Art History
• BFA in Art—Concentration in Art Education
• BA in Music
• BM in Composition
• BM in Music Education
• BM in Music Performance
• BM in Performance
• BM in Performance—Jazz Studies
• BM in Performance—Musical Theatre
• BM in Performance—Piano Pedagogy
• MM in Composition
• MM in Conducting
• MM in Jazz Studies
• MM in Music Education
• MM in Pedagogy
• MM in Performance
• BA in Theatre

Humanities

• BA in English
• BA in English - Elementary Teacher Education
• BA in English - Secondary Teacher Education
• BA in History
• BA in History - Elementary Teacher Education
• BA in History - Secondary Teacher Education
• BA in Liberal Studies-Humanities
• BA in Liberal Studies-Humanities - Elementary Teacher Education
• BA in Philosophy

Social Sciences

• BA in Communication
• BA in Media Studies
• BA in Criminology
• BA in Economics
• BS in Economics
• BA in Sociology
• BA in Political Science

Minors

• Art History
• Audio and Video Production
• Book Arts
• Cinema Studies
• Communication and Media Studies
• Criminology
• Dance
• Economics
• English
• Food Studies
• Game Design
• History
• Labor Studies
• Music
• Philosophy
• Political Science
• Public and Professional Writing
• Public Relations
• Race and Ethnic Studies
• Social Media Activism
• Sociology
Minor in Labor Studies

Description

Director: Michael Hillard (Economics)

Committee: Savage (Geography-Anthropology)

Emerita: Eagan (History)

The minor in labor studies examines many aspects of work and workers but focuses especially on the relationships among individual lives, work, class processes and dynamics, and capitalist development. The minor in labor studies addresses the practical problems of work, workers, and their organizations as well as broad conceptual and theoretical issues including, but not limited to, the relationships among labor, work, and class; a critical examination of class processes and dynamics; a critical examination of capitalist development; the intersections of class with race, ethnicity, gender, and generation; and historical perspectives on all of these topics.

The minor is an interdisciplinary program drawing on faculty and courses from economics, geography, history, arts and humanities, and sociology. Courses provide substantive knowledge of these disciplines and will help to develop critical thinking and analysis skills, writing and oral communication skills, and social science and historical research methods.

Because nearly every individual and organization deal with employees and work, there is constant demand for graduates with understanding and abilities in this area. Students will be prepared for careers in the private sector, labor unions, social services, and all levels of government.

Program Requirements

The minor in labor studies is available to students in any major within the University. Students wishing to pursue the minor must be in good standing with the University and submit a Declaration of Minor form to the USM Registrar's Office.

Select five of the following courses (15 credits):
- ECO 220 U.S. Economic and Labor History
- ECO 321 Understanding Contemporary Capitalism
- ECO 323 U.S. Labor and Employment Relations
- GEO 202 Making a Living
- GEO 302 Gender, Work, and Space
- GEO 303 Economic Geography
- HTY 123 United States History Since 1900
- HTY 357 The Gilded Age in America, 1869-1898
- HTY 358 Early Twentieth-Century United States, 1898-1938
- HTY 359 The United States Since 1939
- SOC 327 Social Movements
- SOC 348 Sociology of Work
- SOC 358 Sociology of Women's Work

Of the five courses, one must be "history-centered" (chosen from among the following: ECO 220, ECO 323, HTY 132, HTY 341, HTY 357, HTY 358, HTY 359); one must be "contemporary" (chosen from among the following: ECO 321, ECO 322, GEO 302, GEO 303, SOC 327, SOC 348, SOC 358); and one must be "international" (chosen from among the following: GEO 202, GEO 302, GEO 303, SOC 327, SOC 348).

Finally, students can apply no more than 6 credits from their major toward the minor in labor studies.
The Ci2 CRL is an Undergraduate Concept Research Lab. Its mission is to "turn ideas into action and action into things." The Ci2 is a hands-on experiential learning environment that promotes student innovation, individual and group creativity in an open concept lab. Through project driven experiences, students develop creative problem solving, critical thinking and marketable skills that foster innovation and community engagement. At the Ci2 students work on real world projects that range from creating augmented and virtual reality experiences to development of prosthetic limbs and new systems for the Internet of Things (IoT).

The Ci2 provides support through a working studio for USM's new minor in Game Design Studies. Ci2 students have the opportunity to develop and publish games both independently and through the minor using all the resources of the lab.

From art to entrepreneurial innovation, the Ci2 is the place for you.

Learn more about the Ci2 Lab
Art

Art Overview

Chair of the Department: Piribeck, 109 Robie-Andrews, Gorham

Professors: Cassidy, Piribeck, Shaughnessy; Associate Professors: DiLuzio, Grant, Hrenko; Lecturers: Flahaven, Porobic

Director of Exhibitions and Programs: Eyler; Environmental Safety and Technology Technician: Walsh

Adjunct Faculty: Colburn-Motta, Goodale, Goodlett, Kagan, Ledue-Bell, McDermott, Schneider, Sulzer

The Department of Art offers four-year degree programs in studio art, art history, and art education. Students may select a Bachelor of Fine Arts (BFA) with concentrations in ceramics, photography and digital art & design, painting and drawing, and sculpture. A concentration in Art Education is available to BFA candidates who wish to teach art. The Bachelor of Arts (BA) in Studio Art combines a liberal arts education with emphasis on the visual arts. A BA in Studio Art with a concentration in Art and Entrepreneurial Studies, combining study in studio art with courses in business development, and a BA in Art with a concentration in Art History are also offered.

The Department of Art prides itself on giving students a rigorous studio experience, historical understanding of the complexity of art practices, and the critical skills needed to become informed visual artists, art educators, and art historians. 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 can write about, criticize, and bring context to works of art. The Department is not tied to a specific style or approach to art making, but instead emphasizes students' ability to think creatively, to include their own point of view, and to defend their choices with an informed voice.

Admission Requirements

Applicants to the Department of Art should observe the following procedure. Formal application should be made to the Director of Undergraduate Admission, Office of Undergraduate Admissions. 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.

All art majors must submit a portfolio of original works to the Department of Art for evaluation after completing the foundation requirements (ART 141, ART 142, ART 151, ARH 111, and ARH 112) and before enrolling in 300-level studio courses. Portfolios are not required for the art history concentration. Transfer students who have completed the art foundation at another institution must submit a portfolio at the next scheduled opportunity and no later than the second semester at USM. The portfolio should consist of no more than twelve works within specific categories. Each student will choose two works to mat with white, off-white or ivory mat board and firm backing. The materials do not have to be archival. The unmatted works on paper will be presented in individual clear sleeves with a firm backing inserted behind the work. Two works will be selected by the Department to exhibit for a two or three-week exhibition. The categories and numbers of work for each category are as follows:

- Two-dimensional works (three pieces) should be taken from and/or exhibit skills in the visual design of the flat page;
- Three-dimensional works (two pieces) should exhibit (in photographs) capabilities in the physical development and articulation of form and space;
- Drawing category (three pieces) should contain works of any medium exhibiting skills and concepts of drawing;
- Self-portrait (one piece) should be executed from life and may be in any medium but should be a representational depiction rendered by hand; and
- Open submissions (three pieces) may be work in any medium as long as it conforms 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 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 major.

Students are required to submit a portfolio for acceptance to the Department prior to enrolling in any 300-level or above studio courses. Studio Art minors may enroll in required studio courses with permission of the instructor.

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 must follow the Departmental admission procedures concerning submission of portfolio, as described above. Art presentation workshops are offered annually.

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 Haystack Mountain School of Crafts in Deer Isle, Maine. Contact the Department of Art or Summer Session for more information.

Course Fees

A course fee is assessed in all lecture courses, as well as ceramics, digital art & design, drawing, painting, photography, printmaking, and sculpture courses.

Transfer Students

To receive a BFA 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. To receive a BA degree in studio art from USM, a transfer student must complete at USM at least two 3-credit studio courses within one discipline and one 3-credit art history course.

BA in Art with a Concentration in Art History

Description

The BA in Art with a Concentration in Art History is designed for students wishing to concentrate more on the historical analysis of art than on art making. Students focus on historical analysis, research, critical thinking and writing. Their studies give them a foundation for a variety of post-graduate options such as museum and gallery work, art criticism, graduate school, and teaching.

Program Requirements

To become a matriculated art major with a concentration in art history, the student must apply for admission to the program during the semester the foundation courses are being completed or the semester 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 GPA 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: 42.

Art Foundation (12 credits)

- ARH 111 Art History: Prehistoric through Medieval
- ARH 112 Art History: Renaissance to the Present
- ART 141 Surface, Space, Time (2D) or ART 142 Surface, Space, Time (3D)
- ART 151 Fundamentals of Perceptual Drawing

Upper-Level Requirements (30 credits)

- ARH 321, 322, or 323 Classical, Medieval, or Renaissance Art
- ARH 325, 326, 327, or 328 Modern Art
- ARH 310 or 329 Non-Western Art
- ARH 410 Seminar in Art History or ARH 412 Topics in Art History (with permission of the Art Department Chair)
- ART 400 Internship in the Visual Arts
- Two Art History elective courses (any upper-level ARH course)
- Three approved upper-level electives from one or more of the following areas: Art History, History, Anthropology, Literature, or Classics. Students should consult with their art history advisors to select appropriate courses. (9 credits)

Pre-approved upper-level electives from other departments: COM 284 Film Appreciation; ANT 220 North American Indians; ANT 224 Ancient
BA in Art with a Concentration in Art and Entrepreneurial Studies

Description

The BA in Art with a Concentration in Art and Entrepreneurial Studies is an in-depth studio experience with courses in small business and entrepreneurship. It involves a combination of art and art history courses with a required studio concentration, a cluster of business courses, a digital-based course, and an internship experience with creative professionals. Within the general electives, students may choose to incorporate a minor or select additional studio (ART) or art history (ARH) courses. This degree is for students who wish to pursue a career in the creative arts in the commercial or nonprofit sectors. It is intended to offer students a greater ability to engage in creative arts sector employment and/or independent small business development.

Program Requirements

The minimum number of credits required for the major: 69

Art Foundation (15 credits)

- ARH 111 Art History: Prehistoric through Medieval
- ARH 112 Art History: Renaissance to the Present
- ART 141 Surface, Space, Time (2D)
- ART 142 Surface, Space, Time (3D)
- ART 151 Fundamentals of Perceptual Drawing

Art History Requirements (9 credits)

- Three ARH 300 or 400-level art history courses

Studio Art Requirements (30 credits)

Choose one concentration and the associated sequence of courses and electives:

Ceramics Concentration Requirements

- ART 231 Introduction to Ceramics I
- ART 232 Introduction to Ceramics II
- ART 332 Intermediate Ceramics
- ART 431 Advanced Ceramics I

As well as:

- Three 200-level ART electives in three different studio disciplines
- One 300-level ART elective
- ART 400 Internship in the Visual Arts (3-6 credits)
- 200-, 300-, or 400-level ART electives as needed to complete 30 credits

Photography and Digital Art & Design Concentration Requirements

- ART 222 Digital Art & Design
- ART 271 Photography: Analog to Digital
- ART 321 Exploring Time-based Art & Design
- ART 372 Digital Photo - Color
• ART 471 Advanced Studio in Photography and Digital Art I

As well as:

• Two 200-level ART electives in two different studio disciplines
• One 300-level ART elective
• ART 400 Internship in the Visual Arts (3-6 credits)
• 200-, 300- or 400-level ART electives as needed to complete 30 credits

Painting and Drawing Concentration Requirements

• ART 251 Drawing: Media and Strategies
• ART 261 Introduction to Painting
• ART 352 Experimental Drawing
• ART 361 Intermediate Drawing and Painting: The Figure
• ART 461 Advanced Drawing and Painting I

As well as:

• Two 200-level ART electives in two different studio disciplines
• One 300-level ART elective
• ART 400 Internship in the Visual Arts (3-6 credits)
• 200-, 300- or 400-level ART electives as needed to complete 30 credits

Sculpture Concentration Requirements

• ART 291 Additive-Subtractive
• ART 292 Altered-Constructed
• ART 393 Topics in Sculpture
• ART 491 Advanced Sculpture

As well as:

• Three 200-level ART electives in three different studio disciplines
• One 300-level ART elective
• ART 400 Internship in the Visual Arts (3-6 credits)
• 200-, 300- or 400-level ART electives as needed to complete 30 credits

University Core Requirements

• EYE 180 Innovation Engineering (required)
• ECO 100 Introduction to Economics or ECO 102 Introduction to Microeconomics (recommended)

Business Requirements (12 credits)

• ACC 110 Financial Accounting Information for Decision Making
• BUS 260 Marketing
• BUS 385 Entrepreneurship and Venture Creation
• BUS 386 Creative Strategies for Entrepreneurs, BUS 356 Digital Marketing, BUS 383 Social Entrepreneurship, or BUS 388 Advanced ICE Topics

Technology Requirement (3 credits)

• ART 222 Introduction to Digital Arts & Design or ITT 281 Internet Website Development

No more than 60 credit hours with ART designation may be used to fulfill the 120 credit-hour degree requirement.

It is strongly recommended that students concentrating in Art and Entrepreneurial Studies take ECO 102 Introduction to Microeconomics to fulfill their Socio-cultural Analysis Core requirement.
BA in Studio Art

Description

The BA in Studio Art is a four-year liberal arts degree in studio art. The program provides an in-depth studio experience while allowing for a substantial number of non-art electives. It is designed for students who want to focus in art, but also have strong interest in disciplines outside the visual arts. Students may take up to 60 credits of studio courses (designated ART) toward the degree.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum and electives) required for the major: 45.

Art Foundation (15 credits)

- ARH 111 Art History: Prehistoric through Medieval
- ARH 112 Art History: Renaissance to the Present
- ART 141 Surface, Space, Time (2D)
- ART 142 Surface, Space, Time (3D)
- ART 151 Fundamentals of Perceptual Drawing

Art History Requirements (9 credits)

- Three ARH 300- or 400-level art history courses

Studio Art Requirement (21 credits)

Choose one concentration and the associated sequence of courses and electives:

Ceramics Concentration Requirements

- ART 231 Introduction to Ceramics I
- ART 232 Introduction to Ceramics II
- ART 332 Intermediate Ceramics
- ART 431 Advanced Ceramics I

Two 200-level ART electives in two different studio disciplines
One 300-level ART elective

Photography and Digital Art & Design Concentration Requirements

- ART 222 Digital Art & Design
- ART 271 Photography: Analog to Digital
- ART 321 Exploring Time-based Art & Design
- ART 372 Digital Photo - Color
- ART 471 Advanced Studio in Photography and Digital Art I

One 200-level ART elective
One 300-level ART elective

Painting and Drawing Concentration Requirements

- ART 251 Drawing: Media and Strategies
- ART 261 Introduction to Painting
- ART 352 Experimental Drawing
- ART 361 Intermediate Drawing and Painting: The Figure
- ART 461 Advanced Drawing and Painting I

One 200-level ART elective
One 300-level ART elective
Sculpture Concentration Requirements

- ART 291 Additive-Subtractive
- ART 292 Altered-Constructed
- ART 393 Topics in Sculpture
- ART 491 Advanced Sculpture

Two 200-level ART electives in two different studio disciplines
One 300-level ART elective

No more than 60 credit hours with ART designation may be used to fulfill the 120 credit-hours degree requirement.

BFA in Art with a Concentration in Art Education

Description

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 leading to teacher certification in Maine. The program is guided by a conceptual framework that proposes that individuals need to be prepared for work in an increasingly complex and culturally diverse world, and that such work is best done through collaboration and reflective inquiry.

For those who want certification to teach art in Maine and who already have a BA, BFA, or MFA in studio art, we offer our BFA with a concentration in art education. For most people this means taking the 30-credit professional education sequence to fulfill all state requirements. This can usually be completed in two years. Field experiences and student teaching placement schools are located in southern Maine.

For those who want a BFA in art education, without a Maine k-12 state teaching license, we offer a community art track with alternative student teaching experiences based within community arts, non-profit arts, and regional art organizations. Students choosing this option will complete all other coursework that is required to graduate with a BFA in art education, but will not earn a k-12 teaching license.

For more information, contact the Department.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for this degree is 92.

Art Foundation (15 credits)

- ARH 111 Art History: Prehistoric through Medieval
- ARH 112 Art History: Renaissance to the Present
- ART 141 Surface, Space, Time (2D)
- ART 142 Surface, Space, Time (3D)
- ART 151 Fundamentals of Perceptual Drawing

Upper Level Art History Requirements (9 credits)

- Three ARH 300- or 400-level Art History Electives

Art Studio Requirements (21 credits)

- ART 222 Digital Art & Design
- ART 231 Introduction to Ceramics I or ART 232 Introduction to Ceramics II
- ART 251 Drawing: Media and Strategies
- ART 261 Introduction to Painting
- ART 271 Introduction to Photography
- ART 281 Introduction to Printmaking: Intaglio and Relief or ART 282 Introduction to Printmaking: Lithography and Screen printing
- ART 291 Sculpture: Additive and Subtractive Processes or ART 292 Sculpture: Altered and Constructed Processes

Studio Concentration Requirements (9 credits)
Choose one concentration and the associated sequence of courses:

Ceramics Concentration
- ART 231 Introduction to Ceramics I or ART 232 Introduction to Ceramics II (both are required for concentration)
- ART 332 Intermediate Ceramics
- ART 431 Advanced Ceramics I

Photography and Digital Art & Design Concentration
- ART 321 Exploring Time-based Art & Design
- ART 372 Digital Photo - Color
- ART 420 Advanced Studio in Digital Art I or ART 471 Advanced Photography I

Painting and Drawing Concentration
- ART 252 Experimental Drawing
- ART 361 Intermediate Drawing and Painting: The Figure
- ART 451 Advanced Drawing I or 461 Advanced Painting I

Sculpture Concentration
- ART 291 Sculpture: Additive and Subtractive Processes or ART 292 Sculpture: Altered and Constructed Processes (both are required for concentration)
- ART 393 Topics in Sculpture
- ART 491 Advanced Sculpture

Studio Electives (9 credits)
- Any three 200-, 300-, or 400-level ART classes

Completion of the senior exhibition is required for the BFA with a Concentration in Art Education.

Professional Education Requirements (29 credits excluding HRD/SBS 200)
- EDU 310 What is the Purpose of Schooling in a Democracy?
- HRD/SBS 200 Multicultural Human Development*
- AED 221 Practicum in Art Education
- AED 222 Art Lab
- AED 321 Principles and Procedures in Art Education* *
- SED 335 Students with Exceptionalities in General Education
- AED 421 Seminar in Art Education*
- EDU 324 Student Teaching I** or AED 400 Community Art Education Internship
- EDU 324 Student Teaching II** or AED 400 Community Art Education Internship

*HRD/SBS 200 counts as a University Core requirement and a Professional Education requirement.

**A 3.0 minimum grade point average (GPA) in art studio, art history, and art education sequence courses must be maintained to register for AED 321, EDU 324, SED 335, AED 421, and to graduate from the program.

Permission of the instructor and passing scores (determined by the Maine Department of Education each year) on the PRAXIS I test are required prior to student teaching and continuation in the program. A passing score on PRAXIS II (a state requirement for teacher certification) is required before graduation and recommendation for certification. Students must maintain a 3.0 minimum grade point average (GPA) in art studio, art history, and the art education sequence courses as well as a 2.5 minimum GPA overall.

The Professional Education Council, comprising deans, department chairs, faculty, and school representatives from all programs offering initial teacher preparation, is the governing body for program review and evaluation for all initial level teacher education programs at USM.

For the purposes of field placements in schools during the educational cluster and internship year, students are required to complete and show documentation of the fingerprinting process outlined by the Maine Department of Education: http://www.maine.gov/doe/cert/fingerprinting/

All students must formally declare their entry into a teacher certification concentration by completing the declaration procedures found on the Office of Educator Preparation website at https://usm.maine.edu/educator-preparation. Passing Praxis I scores, subscription to Tk20, and two recommendation forms are necessary to complete the declaration process.
**Tk20 Subscription:**

All undergraduate and graduate students who matriculate into an Educator Preparation program or pathway in USM summer 2013 or later are required to subscribe to the Tk20 online data management system. The subscription allows students to use the system for assessment, advisement, field-experience and career portfolio management. The subscription fee of $103 covers some of the expenses related to the administration and assessment of the program. For loan purposes, it will be eligible for consideration as part of costs. The subscription is a one-time payment and must be made by each student during the first semester of program or pathway matriculation (check with individual programs and pathways for specific subscription timelines). Subscription instructions are posted on the Office of Educator Preparation website: [https://usm.maine.edu/educator-preparation](https://usm.maine.edu/educator-preparation)

Please note Professional Education Council Policy: In order for USM’s Education Preparation Unit program completers to be recommended by the institution to the state for certification or licensure, the candidate must provide evidence of meeting all certification requirements including proficiency on the standards relevant to his/her state approved professional program and this evidence must be compiled and assessed with in the context of the Unit’s data management system (i.e., Tk20).

**BFA in Studio Arts**

**Description**

The BFA degree is offered for students who seek focused, undergraduate professional education in studio practice. There are degree concentrations in ceramics, photography and digital art & design, painting and drawing, and sculpture. The program prepares students to become open, resourceful, critical, and independent thinkers, capable of successfully conceiving, articulating, and resolving their own visual problems, and equally capable of successfully viewing, appreciating, and contemplating the work of others. They will be engaged and active artists producing work that encompasses theoretical and practical knowledge.

Students who intend to pursue professional careers in art and design or who plan to pursue graduate study culminating in the MFA degree are encouraged to seek admission to the BFA program.

**Program Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 75.

Art Foundation (15 credits)

- ARH 111 Art History: Prehistory through Medieval
- ARH 112 Art History: Renaissance to the Present
- ART 141 Surface, Space, Time (2D)
- ART 142 Surface, Space, Time (3D)
- ART 151 Fundamentals of Perceptual Drawing

Upper Level Art History Requirements (9 credits)

- Three ARH 300- or 400-level Art History courses

General Studio Requirements (9 credits)

- ART 251 Drawing: Media and Strategies
- ART 281 Introduction to Printmaking: Intaglio and Relief or ART 282 Introduction to Printmaking: Lithography and Screenprinting
- ART 312 Topics in Studio Art

Choose one concentration and the associated sequence of courses:

Ceramics Concentration Requirements (15 credits)

- ART 231 Introduction to Ceramics I
- ART 232 Introduction to Ceramics II
- ART 332 Intermediate Ceramics
• ART 431 Advanced Ceramics I
• ART 432 Advanced Ceramics II (may be repeated for up to 9 credits)

Photography and Digital Art & Design Concentration Requirements (18 credits)

• ART 222 Digital Art & Design
• ART 271 Photography: Analog to Digital
• ART 321 Exploring Time-based Art & Design
• ART 372 Digital Photo - Color
• ART 471 Advanced Studio in Photography and Digital Art I
• ART 472 Advanced Studio in Photography and Digital Art II (may be repeated for up to 9 credits)

Painting and Drawing Concentration Requirements (15 credits)

• ART 261 Introduction to Painting
• ART 352 Experimental Drawing
• ART 361 Intermediate Drawing and Painting: The Figure
• ART 461 Advanced Drawing and Painting I
• ART 462 Advanced Drawing and Painting II (may be repeated for up to 9 credits)

Sculpture Concentration Requirements (15 credits)

• ART 291 Additive-Subtractive
• ART 292 Altered-Constructed
• ART 393 Topics in Sculpture
• ART 491 Advanced Sculpture
• ART 492 Advanced Sculpture (may be repeated for up to 9 credits)

Internship Requirement (3 credits)

• ART 400 Internship in the Visual Arts (3 credits)

Senior Seminar and Exhibition Requirement (3 credits)

• ART 401 Senior Seminar

The BFA senior exhibition requirement must be completed while enrolled in ART 401 Senior Seminar.

Elective Studio Courses (18-21 credits to meet total of 75 credits)

• Any 200-, 300-, or 400-level ART courses

Minor in Art History

Description

The minor in art history is designed for students who would like to augment their major with the study of visual culture and traditions that art history courses offer. Students who minor in art history gain knowledge and skills relevant to museum and gallery work, art criticism, graduate school, and teaching.

Program Requirements

The minimum number of art history credits required for the minor: 21.

• ARH 111 Art History: Prehistoric through Medieval
• ARH 112 Art History: Renaissance to the Present

15 credits of art history (ARH) courses, above 100-level including:
• One of ARH 321, 322, or 323
• One of ARH 318, 325, 326, 327, or 328

Minor in Book Arts

Description

Kate Cheney Chappell ’83 Center for Book Arts

After having studied book arts under well-known Maine book artist Rebecca Goodale, Kate Cheney Chappell (’83), co-founder of Tom's of Maine, shared a gift that established The Kate Cheney Chappell Center for Book Arts at USM, naming Goodale as program coordinator. This is a popular program that celebrates the innovative and engaging nature of book arts through lectures and workshops by national and regional book artists, and through exhibits of artists' books.

Learn more about the Center for Book Arts

Program Requirements

The minimum number of art and art history credits (exclusive of the University’s Core curriculum) required for the minor: 21

The minor consists of the following:

Studio Art Foundation - select two courses (6 credits)

- ART 141 Surface, Space, Time (2D)
- ART 142 Surface, Space, Time (3D)
- ART 151 Fundamentals of Perceptual Drawing

Art History Course (3 credits)

- ARH 112 Art History: Renaissance to the Present

Upper Level Courses (12 credits)

- ART 241 The Visual Book: Form and Content

Select two courses from:

- ART 341 The Visual Book: Historical Influences on Contemporary Artist's Books
- ART 342 Book Arts Summer Workshop (may be taken numerous times)
- ART 344 New Media Artist's Books

Required Advanced Studio:

- ART 441 The Visual Book 3: Advanced Studio in Book Arts

Minor in Studio Art

Description

The minor in studio art is designed for non-majors who wish to gain substantial knowledge in one of four studio disciplines: ceramics, photography and digital art & design, painting and drawing, or sculpture. Students who minor in studio art take an abbreviated version of the foundation program and then take a sequence of courses within a specific discipline.
Program Requirements

The minimum number of art and art history credits (exclusive of the University's Core curriculum) required for the minor: 21.

Studio Art Foundation Requirements (6 credits)

Select two courses from the following:

- ART 141 Surface, Space, Time (2D)
- ART 142 Surface, Space, Time (3D)
- ART 151 Fundamentals of Perceptual Drawing

*Each studio discipline has specific foundation prerequisites for its 200-level courses: Ceramics and Sculpture: ART 142, ART 151; Photography and Digital Art & Design: ART 141 and ART 151; Painting and Drawing: ART 151.

Art History Requirement (3 credits)

- ARH 112 Art History: Renaissance to the Present

Introduction to Studio Discipline Course (6 credits)

Two courses from one studio discipline selected from the following:

- ART 222 Introduction to Digital Art & Design and ART 271 Photography: Analog to Digital
- ART 231 Introduction to Ceramics I and ART 232 Introduction to Ceramics II
- ART 251 Drawing: Media and Strategies and ART 261 Introduction to Painting
- ART 291 Sculpture: Additive and Subtractive Processes and ART 292 Sculpture: Altered and Constructed Processes

Upper-Level Studio Courses (6 credits)

One 300-level studio course from the selected studio discipline.

One 400-level studio course from the selected studio discipline.

Course Descriptions

Art History

ARH prefix designates an art history course. 100-level art history courses begin to develop skills that students will need to pursue study in the discipline. Students will learn strategies for interpreting visual art and for understanding and writing formal academic prose.

ARH 111 Art History: Prehistoric through 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: ENG 100 or equivalent. Preference given candidates for matriculation in the Department of Art, or those with permission of the instructor. Cr 3.

ARH 112 Art History: Renaissance to the Present
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: ENG 100 or equivalent. Preference given to candidates for matriculation in the Department of Art, or those with permission of the instructor. Cr 3.

ARH 310 Art History: Cross-Cultural Perspectives

Upper-level art history courses further develop students' skills of art historical analysis. Students will continue to work on formal academic prose and complete at least 15 total pages of written work during the semester. Students will also learn research sources and methods; become familiar with varied art historical writings from period documents, articles, and scholarly books; tackle the issue of interpretation; and learn about recent approaches to the field. Whenever possible, students will study original art works.

ARH 310 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: ARH 111 or ARH 112 or permission of the instructor. Cr 3.

ARH 311 Gender Identity and Modern Art
This course examines the construction of gender and sexuality in Western visual arts from the late eighteenth century to the present. Students will analyze both the art and art criticism of the period, focusing on the work of female, feminist, and gay artists. Cr 3.

ARH 312 Art as Social Action
This course will study art as social action and the artist's social roles and responsibilities. The primary focus will be on modern and contemporary art and related theoretical issues that address the role of art in society. Prerequisites: Successful completion of an upper-level art history course with a grade of C or better. Cr 3. (Satisfies the EISRC Core requirement. Core Prerequisites: any three of Creative Expression, Cultural Interpretation, Science Exploration, Social-cultural Analysis.)

ARH 318 History of Photography
This course studies photography from its invention in the 19th century to the present day. It considers photography from historical, theoretical, social, and artistic perspectives. Prerequisite: ARH 112 or permission of the instructor. Cr 3.

ARH 321 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. This course is equivalent to CLA 321. Prerequisite: ARH 111. Cr 3.

ARH 322 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 111. Cr 3.

ARH 323 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 112. Cr 3.

ARH 325 American Art
Survey of North American painting, sculpture, and architecture from the sixteenth century to 1940. The art will be examined in the context of aesthetic and cultural ideals, historical events, and multiculturalism. Field trips to local museums and architectural sites. No prerequisite. Cr 3.

ARH 326 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. Prerequisite: ARH 112 or permission of the instructor. Cr 3.

ARH 327 Modern Art
Examination of developments in the visual arts from World War II to the present. Prerequisite: ARH 112. Cr 3.

ARH 329 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. Prerequisite: ARH 111 or ARH 112 or permission of the instructor. Cr 3.

ARH 410 Seminar in Art History
This course is a requirement for students concentrating in art history. Designed for the advanced student, the course probes different methodological and theoretical approaches to the study and interpretation of the visual arts. Students will examine the writings of pioneers in the field, long-standing art historical methods, and the "new" art history. This course is also a research seminar. Prerequisite: permission of the instructor. Cr 3. (Satisfies Capstone requirement.)

ARH 411 Philosophy of Art
Examination of the aesthetic theories of philosophers, artists, writers, and critics that form the basis for understanding the fine arts. Readings and discussion of texts from ancient to modern times. Prerequisite: senior art majors and permission of the instructor. 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 1-6.

Studio Art

ART 141 Surface, Space, Time (2D)
Provides an introduction to the fundamentals of 2-D design and color theory through a series of exercises and applied problems in visual organization. Prerequisite: EYE or concurrent. Cr 3.

ART 142 Surface, Space, Time (3D)
Provides an introduction to the fundamentals of 3-D design through a series of projects, demonstrations and discussions. Cr 3.

ART 151 Fundamentals of Perceptual Drawing
Introduction to basic skills and approaches to perceptual drawing. This course develops students' visual awareness and understanding of the range of drawing materials and techniques. Students will develop responses to the visual environment employing varied stylistic and technical approaches. Exercises include still life, figure study, portrait, and landscape. Prerequisite: EYE or concurrent. Cr 3.

ART 222 Digital Art & Design
The course provides an overview of elements, principles and theories of digital art and design. The class moves from basic principles of 2-D design to animation, interactivity and principles of time-based art. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of the instructor. Cr 3.

ART 231 Introduction to Ceramics I
An introduction to methods and processes of clay forming, including historical context, 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 141; ART 142; ART 151; ARH 111; ARH 112 or permission of the instructor. Cr 3.

ART 232 Introduction to Ceramics II
This course focuses on the exploration of materials and ceramic processes. The emphasis is on creating sculptural forms with aspects of glaze composition and firing procedures. Students will engage in glaze and clay formulation and loading and firing kilns. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of the instructor. Cr 3.

ART 241 Introduction to The Visual Book
This course will use the visual artist's book as a medium for personal expression. Students will incorporate 2D and 3D skills to create a collection of unique books. A variety of traditional and nontraditional books, arts, and techniques will be used to develop both form and content. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of instructor. Cr 3.

ART 251 Drawing: Media and Strategies
Course explores various drawing processes combining media, color and colored grounds and supports to expand students' conceptual image-making skills. Emphasis will be placed on the role of subject matter and imagery through projects and through examination of historical and contemporary art. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of the instructor. Cr 3.

ART 261 Introduction to Painting
Students will gain a working knowledge of the materials and techniques of painting, its various supports, grounds, and pigments. Work is primarily from observation and will include still life, figure, and landscape. Studies will focus on physical properties of color and color mixing, principles and concepts of spatial organization, and pictorial form. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of instructor. Cr 3.

ART 271 Photography: Analog to Digital
An introduction to historical developments and evolution of imaging technologies from traditional black and white photography and other experimental analog processes, extending to introduction of digital applications and multimedia possibilities. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of instructor. Cr 3.

ART 281 Introduction to Printmaking: Intaglio and Relief
This course introduces intaglio and relief printmaking techniques. The class includes traditional dry and wet processes for intaglio such as drypoint, engraving, etching, and aquatint. It also addresses color printing methods for linoleum and woodcut. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of instructor. Cr 3.

ART 282 Introduction to Printmaking: Lithography and Screen Printing
This course introduces planographic methods of printing. Students will explore traditional lithography on stone as well as direct hand methods and photomechanical methods for screen printing. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of instructor. Cr 3.
ART 291 Sculpture: Additive and Subtractive Processes
An introduction to fundamental processes of sculptural expression employing additive and subtractive processes. These will include observational modeling, aggregate forming and casting, basic mold-making and carving and studio safety. Students will become acquainted with contemporary and historical approaches through ongoing studio work, process centered projects, demonstrations, critiques, individual and group discussions, and readings. ART 141; ART 142; ART 151; ARH 111; ARH 112 or permission of instructor. Cr 3.

ART 292 Sculpture: Altered and Constructed Processes
An introduction to fundamental processes of sculptural expression employing altered object and construction forms. Topics and processes will include basic wood and metal fabrication techniques, acquired objects and site based works, and studio safety. Students will become acquainted with contemporary and historical approaches through ongoing studio work, process centered projects, demonstrations, critiques, individual and group discussions, and readings. Prerequisite: ART 141; ART 142; ART 151; ARH 111; ARH 112 or by permission. Cr 3.

ART 312 Topics in Studio Art
A course on selected topics in studio arts. May be repeated for credit when topics vary. Prerequisite: Two ART 200-level courses or permission of instructor. Cr 3.

ART 321 Exploring Time-Based Art & Design
This course uses digital media to explore creative concepts, tools and processes in time-based art and design. The focus will be on broadening the concept of digital media through experimentation with interactivity and installation. Prerequisite: ART 222 or permission of instructor. Cr 3.

ART 332 Intermediate Ceramics
Students combine several methods of forming clay in one work and explore the complex use of nature and design. Students engage in historical research and presentation, develop continuity in personal practice and explore alternative firing methods. Prerequisites: ART 231 and 232 or permission of instructor. Cr 3.

ART 341 The Visual Book II: Historical Influences on Contemporary Artists' Books
With attention to content and design, students will create a group of Artist's Books with specific historical references inspired by research into particular cultures and contemporary art movements. The Special Collections of USM Libraries and other local university and college libraries will be important course resources. Prerequisite: ART 241 or permission of the instructor. Cr 3.

ART 342 Book Arts Summer Workshop
This course begins with a series of workshops during a seven-day session. Students will study skills and techniques that give them insights into design, history and aesthetics specific to Book Arts. Each student creates an artist's book for a September exhibition at the USM Glickman Family Library. Prerequisite: ART 241 or permission of the instructor. This course may be taken multiple times as the workshop changes each summer. Cr 3.

ART 343 New Media Book Arts
This is a digital imaging and book arts course. Students will design and self-publish limited edition artist's books using digital technologies. The focus of the course will be content driven book design using the computer to create and process images. Note: This course counts as an intermediate digital art requirement. Prerequisite: ART 221 or ART 241, or permission of the instructor. Cr 3.

ART 352 Experimental Drawing
Course explores an expanded notion of drawing that engages issues of time, space, process, and emerging media. Students will study contemporary developments and applications of drawing in areas outside of traditional drawing. Prerequisite: ART 251 or permission of instructor. Cr 3.

ART 361 Intermediate Drawing and Painting: The Figure
Course focuses on the study and depiction of the human figure working directly from the model. Students explore naturalistic drawing and painting techniques and are encouraged to develop personal interpretations. Prerequisites: ART 251 and ART 261 or permission of the instructor. Cr 3.

ART 372 Digital Photography
This class will give students a thorough understanding of the digital workflow, from capture to process to print. Students will be introduced to the principles of color photography, color theory, and color management. Students will work extensively in image processing techniques and methods while working on their own original projects. Prerequisite: ART 271 or permission of instructor. Cr 3.

ART 382 Experimental Printmaking
This course introduces methods of printmaking that are experimental, photographic, and digital in nature. Students will learn contemporary approaches to topics such as photogravure and duotones, non-toxic photomechanical methods, and experimental traditional and non-traditional means of generating prints and multiples. Prerequisite: ART 281, ART 282, or ART 222, or permission of instructor. Cr 3.

ART 393 Topics in Sculpture
Students will develop a deepening sculptural capacity through projects/readings/discussions and presentation around specific sculptural
approaches to issues in contemporary art and society. These will be semester long projects that engage subject matter, content, design and technique. Prerequisite: ART 291 and ART 292 or permission of instructor. Cr 3.

ART 400 Internship in the Visual Arts
The purpose of the internship is to allow students to work in an area that pertains to the visual arts and is related to their own activities and career intentions. Possibilities for internships include, but are not limited to, galleries, arts-related businesses, museums, practicing artists, scholars, nonprofit organizations, and cultural institutions. Pass-fail only. Prerequisites: Junior status or above and permission of the Art Department Chair. Cr 1-6.

ART 401 Senior Seminar in Studio Art
Designed for BFA graduating senior 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. Prerequisites: senior status/BFA degree students. Cr 3. (Satisfies Capstone requirement.)

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 Advanced Ceramics I
Students work in series, research and present information on a ceramic artist, and perform tests and experiments in forming clay, firing kilns, and glazing. Students are expected to fire all kilns, mix glazes, and keep accurate records of their development. Prerequisite: ART 332. Cr 3.

ART 432 Advanced Ceramics II
Students focus on the evolution of earlier studies into a series of work that may be used for the senior exhibition. Students research and present information about a ceramic artist, load and fire all kilns, mix glazes, and are encouraged to enter competitions and arrange a portfolio. Course may be repeated twice for credit. Prerequisite: ART 431. Cr 3.

ART 441 Advanced Studio in Book Arts
This course creates an opportunity for in-depth study and personal exploration with the Artist's Book. Every student will create a collection of Artist's Books while simultaneously gaining confidence with and a strong aesthetic for the medium. Prerequisite: ART 341, 342, 343 or permission of the instructor. Cr. 3.

ART 461 Advanced Drawing and Painting I
This course for advanced drawing and painting students encourages individual vision and a committed approach to making art. Thematic projects are developed by each student and the course is devoted to expanding expressive, conceptual, and technical abilities. A reflective writing component will accompany the course. Art 461 serves as a BA in Studio Art capstone course. Prerequisites: ART 352 and ART 361. Cr 3.

ART 462 Advanced Drawing and Painting II
Continued investigation of drawing and painting processes to express personal themes. Emphasis is on individual content and personal expression. Work will be directed towards a thesis project and all of the particulars that entails. Work will be shaped by reflective writing as well as critiques with fellow students, faculty, and visiting artists. Course may be repeated twice for credit. Prerequisite: ART 461. Cr 3.

ART 471 Advanced Studio in Photography and Digital Art I
Students will work with the instructor to develop photography and/or digital art and design projects based upon their interests and goals. Aesthetic, theoretical, and historical issues related to photography and digital art and design will be discussed. A reflective writing component will accompany the course. ART 471 serves as a BA in Studio Art capstone course. Prerequisites: ART 321 and ART 372 or permission of instructor. Cr 3.

ART 472 Advanced Studio in Photography and Digital Art II
Students will further refine the skills acquired in the first semester of advanced studio in photography and digital art. A semester-long project will be designed and completed by each student. Course may be repeated twice for credit. Prerequisite: ART 471. Cr 3.

ART 481 Advanced Printmaking I
This class is intended for students who are proficient in two or more methods of printmaking (relief, intaglio, lithography, screenprinting, or experimental methods). Students will refine their technical skills while pursuing in-depth investigation of subject matter and imagery. Knowledge
and practice of image-making as both an aesthetic and conceptual activity will be addressed. Prerequisites: permission of the instructor or two courses from ART 281, ART 282 and ART 382. Cr 3.

ART 482 Advanced Printmaking II
This class is for the student who can work proficiently in two or more methods of printmaking. Students are expected to develop their imagery based on well-conceived ideas, which can be successfully expressed in one or more printing techniques. Experimentation with new techniques is encouraged, as is an exploration of combining several methods of printmaking effectively in one print. Students develop and pursue independent portfolio projects. Course may be repeated twice for credit. Prerequisite: ART 481. Cr 3.

ART 491/492 Advanced Sculpture
Continuation of Intermediate Sculpture with emphasis on the pursuit of personal imagery. Course may be repeated twice for credit. Prerequisite: ART 391. 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, and observation. The examination of the relationship between art-making and learning is relevant to prospective art and classroom teachers. All AED students (k-12 certification and community arts) are required to successfully complete a minimum of 2 semesters of Art Lab prior to their capstone. AED 222 should be taken concurrently with AED 221. Prerequisites: sophomore standing or above and art foundation. Cr 3.

AED 222 Art Lab
This on-campus teaching practicum examines the relationship between art education theory and practice. All AED students (both the k-12 certification and community arts program) are required to successfully complete a minimum of two semesters of Art Lab prior to their capstone. This course is available each semester and summers. May be repeated for credit. Prerequisites: EYE, HRD 200, Cr 1-3.

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. All AED students (k-12 certification and community arts) are required to successfully complete a minimum of 2 semesters of art lab prior to their capstone. AED 222 should be taken concurrently with AED 321. Intended for the art education major. Prerequisites: AED 221, minimum 1 credit of AED 222, and art foundation. Cr 3.

AED 400 Community Art Education Internship (CAED) Students work in areas that pertain to community-based arts education and that are related to their individual career aspirations. Internship sites include: galleries, public and private art organizations, museums, nonprofit organizations, and cultural institutions. Prerequisites: Junior status or above, EYE, HRD 200, AED 221, or permission of the Art Department Chair and Art Education faculty. May be repeated for credit up to 12 credits. Cr 1-12.

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 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, writings, and readings. This course is to be taken while student teaching. Prerequisites: Two semesters of AED 222 (minimum of 2 credits) and AED 321. 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.

EDU 324 Student Teaching
The student teaching year consists of two semesters. During the fall semester, students are in an elementary school half-time for eight weeks and in a secondary school half-time for the remaining eight weeks. During the spring semester, experiences are in the same schools, full-time for eight weeks each. Students are under direct supervision of supervising teachers and a university supervisor. Cr 12.
Communication and Media Studies

Communication and Media Studies Overview

Professors: Pierson, Shedletsky; Associate Professors: Panici; Assistant Professors: Ebben, Kivatisky; Lecturer: Gilbert; CMS Production Studio Manager and Lab Instructor: Ives, Administrative Specialist: Towns

The Department of Communication and Media Studies offers two bachelor of arts degrees, one in communication and the other in media studies. These two degree programs are distinct in several ways. In terms of focus, the communication degree program takes a broad view of communication, including the examination of face-to-face contexts and mediated ones. The media studies degree program more specifically focuses on media writing, criticism, and production. Another difference in these degree programs occurs at the senior level. Media studies majors prepare a senior project (intended to serve as a portfolio of their writing and/or production work) and participate in a service learning practicum (working for a community organization in a media capacity). Communication majors take two senior seminars. One seminar is chosen from a list of topics and the other is a capstone seminar designed to be a culmination of their undergraduate work and as a transition to graduate studies. Aside from the differences that make each program unique, the programs share a common core of courses that serve as a foundation for both. The two programs also embrace a liberal arts philosophy. This means that the emphasis is on critical thinking rather than vocational training.

The Department of Communication and Media Studies offers courses on both the Portland and Gorham campuses. Additionally, several CMS courses are offered online.

All students must complete CMS 102: Introduction to Communication, CMS 103: Introduction to Media Studies, and CMS 200: Research Methods in Communication. These are the core courses that serve as the foundation for both degree programs. Introduction to Communication and Introduction to Media Studies provide students with an overview of the field. Research Methods in Communication prepares students to decipher and critically analyze various types of research. Students must receive a grade of C or higher in all required courses in their respective degree programs in order to graduate.

The Department of Communication and Media Studies is pleased to accept transfer credit from other accredited institutions of higher learning. Students wishing to receive credit for courses taken outside of USM will need to meet with their Communication or Media Studies faculty advisor, or if they do not have one, the chair of the Department in order to discuss specific courses. Students may transfer a maximum of 12 credits in the major. This limit applies to credits transferred from other institutions, credits earned through USM Prior Learning Assessment Portfolio evaluation, and to any combination of Transfer and PLA credit. Department Policy excludes the following major requirements – CMS 400 and CMS 450 (Media Studies), CMS 495 and the Senior Seminar (Communication) – from Transfer or PLA credit eligibility. The transfer of credits is at the discretion of the Department. Students are encouraged to contact the Department chair with any questions about the Department or our programs.

For students interested in pursuing a double major in Communication and Media Studies, please check the double major requirements posted on the Department's website. The Department also offers minors in Communication & Media Studies, Cinema Studies, Audio and Video Production, and Public Relations. The Department of Communication and Media Studies website is available through the directory on the University's web homepage.

Graduating with Distinction

Graduating with Distinction in Communication. For a B.A. degree in Communication with distinction, a student must achieve a 3.7 GPA or higher in courses taken in the major.

Graduating with Distinction in Media Studies. For a B.A. degree in Media Studies with distinction, a student must achieve a 3.7 GPA or higher in courses taken in the major.

BA in Communication

Description
The communication bachelor of arts degree program takes a broad view of communication including the examination of face-to-face contexts and mediated ones. The program examines communication theories and their practices including intrapersonal, interpersonal, group, organization, intercultural, gender and family, and mass media. Communication majors take two senior seminars. One seminar is chosen from a list of topics and the other is a capstone seminar designed to be a culmination of their undergraduate work and as a transition to graduate studies. This program embraces a liberal arts philosophy and emphasizes critical thinking rather than vocational training.

This degree program can also be taken in a fully online format. For more information about the online program, please visit Professional and Continuing Education at [www.usm.maine.edu/pce](http://www.usm.maine.edu/pce).

## Program Requirements

Major Requirements (36 credit hours)
A grade of "C" or higher is required in all courses for the major.

### I. Common Core (9 credit hours)
- CMS 102 Introduction to Communication
- CMS 103 Introduction to Media Studies
- CMS 200 Research Methods in Communication

### II. Communication Theory (9 credit hours - select three)
- CMS 242 Communication and Social Media
- CMS 255 Business and Professional Communication
- CMS 265 Intrapersonal Communication
- CMS 272 Persuasion
- CMS 290 Intercultural Communication
- CMS 298 Topics in Communication I
- CMS 330 Theories of Interpersonal Communication
- CMS 332 Communication in the Family
- CMS 345 Small Group Communication
- CMS 360 Ethical Dilemmas in the Digital Age
- CMS 375 Meaning and Communication
- CMS 390 Theories of Organizational Communication
- CMS 398 Topics in Communication II

### III. Media Theory (6 credit hours – select two)
- CMS 210 Topics in Media Criticism I
- CMS 240 Rhetoric, Media, and Culture
- CMS 284 Cinema Studies
- CMS 286 History of International Cinema to 1945
- CMS 288 History of International Cinema since 1945
- CMS 294 Visual Communication
- CMS 303 Media Effects
- CMS 310 Topics in Media Criticism II
- CMS 323 Understanding Technology
- CMS 370 Media and Social Change
- CMS 374 Media Criticism and Aesthetics
- CMS 380 Film Genres
- CMS 384 Topics in Cinema Studies
- CMS 394 Theories of Cinema
- CMS 423 The First Amendment

### IV. Senior Experience (6 credit hours)
- Senior Seminar (3 credit hours – select one)
  - CMS 420 Communication and Cognition
  - CMS 423 First Amendment
  - CMS 480 Gender Communication
  - CMS 484 Advanced Topics in Cinema Studies
  - CMS 486 Women in Film
  - CMS 490 Theories of Mass Communication
  - CMS 498 Topics in Communication III

- Capstone Senior Seminar (3 credit hours)
V. Electives (6 credit hours)

- Communication majors may select any two courses offered by the Department as electives as long as they have met the prerequisites. The exceptions are internships and independent studies. These count toward the total number of credits needed for a bachelor of arts degree, but not as electives in the major.

BA in Media Studies

Description

Set in a liberal arts context, the media studies bachelor of arts degree program allows students to study modern media through the application of various theoretical frameworks and skills. Students with an interest in media studies will find the greater Portland area an excellent location for media-related activities and service learning projects. By emphasizing theory and practice, the media studies major challenges the student to analyze and practice the creation, dissemination, utilization, and evaluation of mediated messages.

Program Requirements

Major Requirements (36 credit hours)
A grade of "C" or higher is required for all courses for the major.

I. Common Core (9 credit hours)
- CMS 102 Introduction to Communication
- CMS 103 Introduction to Media Studies
- CMS 200 Research Methods in Communication

II. Media Writing, Theory, and Production Areas (21 credit hours)
Select 9 credit hours from one of the following areas, then 12 credit hours by choosing 6 credit hours from each of the remaining two areas.

Media Writing
- CMS 150 The Writing Process
- CMS 202 Writing for Popular Print Media
- CMS 205 Topics in Media Writing I
- CMS 215 Journalism Reporting and Writing
- CMS 225 Screenwriting
- CMS 274 Writing for the Media
- CMS 300 Topics in Media Writing II
- CMS 302 Writing the Feature Story
- CMS 305 Writing Opinion: Editorials and Columns
- CMS 315 Broadcast News Writing

Media Theory
- CMS 210 Topics in Media Criticism I
- CMS 240 Rhetoric, Media, and Culture
- CMS 242 Communication and Social Media
- CMS 284 Intro to Cinema Studies
- CMS 286 History of International Cinema to 1945
- CMS 288 History of International Cinema Since 1945
- CMS 294 Visual Communication
- CMS 303 Media Effects
- CMS 310 Topics in Media Criticism II
- CMS 323 Understanding Technology
- CMS 370 Media and Social Change
- CMS 374 Media Criticism and Aesthetics
- CMS 375 Meaning and Communication
- CMS 380 Film Genres
- CMS 384 Topics in Cinema Studies
Minor in Audio and Video Production

Description

The Audio and Video Production minor offers students an understanding of the processes involved in conceptualizing, writing, designing, and producing works in media based on the effective principles and practices of media aesthetics for target audiences. This minor will equip students with the information and tools necessary to create, manage, and evaluate audio and video works as vehicles of communication.

The minor consists of 16 credit hours of audio and video production CMS courses.

Program Requirements

A grade of “C” or higher is required on all coursework for the minor.

Core Courses (4 credits):

CMS 203/204 Introduction to Video Production and Lab

Electives (4 courses, 12 credits minimum*)

*Please note that some courses require concurrent enrollment in a lab section.

CMS 220 Topics in Media Production I
CMS 222 - Digital Radio & Audio Production
CMS 225 Screenwriting
CMS 315 Broadcast Newswriting
CMS 320 Topics in Media Production II
CMS 322 Digital Audio Storytelling
CMS 340/341 Field Video Production and Lab
CMS 440/441 Advanced Field Video Production and Lab
CMS 460 Topics in Media Production III

Admission Information
In order to declare the minor, students must have a minimum 2.0 G.P.A. and have completed the core competency in College Writing.

Minor in Cinema Studies

Description

The Cinema Studies minor offers students a multidimensional understanding of movies as forms of art, products of industry, and modes of communication. The program can serve as a base of knowledge for students intending to enter careers in the media, as a foundation for further study, and/or as the opportunity to gain deeper insight into one of the most culturally significant media of the twentieth and twenty-first centuries.

Program Requirements

The minor consists of 15 credit hours of film or cinema studies CMS courses. In order to declare the minor students must have a minimum 2.0 G.P.A. and have completed the core competency in College Writing. A grade of "C" or higher is required on all coursework for the minor.

Core (6 credits):
CMS 284 Intro to Cinema Studies
And either
CMS 286 History of International Cinema to 1945
* Or 288 History of International Cinema Since 1945
* Or CMS 394 Theories of Cinema

Electives (9 credits):
Choose 3 courses
CMS 210 Topics in Media Criticism I (only film or cinema topics)
CMS 286 or 288 (History of International Cinema to 1945 or Since 1945, whichever was not taken for the core)
CMS 310 Topics in Media Criticism II (only film or cinema courses)
CMS 380 Film Genres
CMS 394 Theories of Cinema (if not taken for the core)
CMS 484 Advanced Topics in Cinema Studies
CMS 486 Women in Film
CRM 320 Film & Social Order
ENG 348 Topics in Cultural Studies: Stanley Kubrick
ENG 348 Topics in Cultural Studies: Shakespeare & Film
HTY 394 Women, Work & Resistance in Film
MUS 205 Music in Film
PHI 221 Philosophy in Film
PHI 312 Gender in African Literature & Film

Minor in Communication and Media Studies

Description

The minor consists of 21 credit hours of courses in both the communication and media studies majors.

Program Requirements

In order to declare the minor, students must have a minimum 2.0 G.P.A. and have completed the core competencies in Quantitative Reasoning and College Writing.

The minor consists of 21 credit hours of courses in both the communication and media studies majors. Students must receive a grade of C or higher in all required courses in the minor.
CMS Core Courses (9 credit hours):
   CMS 102 Introduction to Communication
   CMS 103 Introduction to Media Studies
   CMS 200 Research Methods in Communication

CMS Areas of Study (12 credit hours):

Communication Theory (select one course):
   CMS 242, 255, 265, 272, 290, 298, 330, 332, 345, 375, 390, or 398

Media Theory (select one course):
   CMS 210, 240, 284, 286, 288, 294, 303, 310, 323, 370, 374, 375, 380, 384, or 394

Media Writing (select one course):
   CMS 150, 202, 205, 215, 225, 274, 300, 302, 305, 315, or 325

CMS Elective (select one course that you qualify to take based on prerequisites).

Minor in Public Relations

Description

The Public Relations minor provides students with an introduction to this area and other related professions (e.g. marketing and social media). Public relations has been described as the strategic management of communication and relationships between organizations and their key publics. Conceptual and practical courses in communication and media writing provide the foundation for the minor, which students can build upon by selecting courses from a variety of multidisciplinary electives. Please consult with your advisor in order to choose appropriate electives.

Program Requirements

The Minor in Public Relations consists of 15 credits. A grade of “C” or higher is required on all coursework for the minor.

Required courses (6 credits, 2 courses):
   CMS 210 Topics in Media Criticism: Intro to Public Relations (3 credits)
   CMS 202 Writing for Popular Print Media (3 credits)
   CMS 215 Journalism Reporting and Writing (3 credits)
   CMS 274 Writing for the Media (3 credits)
   CMS 300 Topics in Media Writing: Social Media (3 credits)

Electives Courses (minimum of 9 credits, 3 courses):
   BUS 260 Marketing
   BUS 316 Sport Event Management
   BUS 363 Branding and Advertising
   BUS 369 Marketing Research
   CMS 200 Research Methods in Communication
   CMS 202 Writing for Popular Print Media
   CMS 203/204 Intro to Video Production
   CMS 215 Journalism Reporting and Writing
   CMS 242 Communication and Social Media
   CMS 255 Businesses & Professional Communication
   CMS 272 Persuasion
   CMS 274 Writing for the Media
   CMS 300 Topics in Media Writing: Social Media
Course Descriptions

CMS 102 Introduction to Communication
This course provides students with an overview and brief history of the field of communication, introduces them to theory development and the research process, and illustrates how communication theories can be applied to everyday life. Students will explore communication in a variety of contexts, including intrapersonal, organizational, intercultural, and mass communication. This course satisfies the Socio-Cultural Analysis requirement in the core curriculum. Cr. 3.

CMS 103 Introduction to Media Studies
This course examines the historical, philosophical, technological, economic, political, and social aspects of print (book, magazine, and newspapers) and electronic media (radio, television, film, sound recordings, and the Internet). In addition, the effects of mass media will be explored. Cr. 3.

CMS 150 The Writing Process
This course provides students with professional writing skills through practice in techniques and strategies used in a variety of media writing applications. There is a strong emphasis on the utility of writing as a tool of communicating information, interpreting media content, and constructing meaning. This course satisfies the Creative Expression requirement in the core curriculum. Prerequisites: College Writing. Cr. 3.

CMS 200 Research Methods in Communication
This course introduces students to methods of inquiry found in the communication and media studies research literature. These methods include experimental design, survey research, textual analysis, and ethnography. The course examines the underlying philosophical assumptions associated with these methodologies as well as their unique strengths and limitations. Students' conceptual understanding of these methodologies and their ability to become critical consumers of research findings are the major objectives of the course. CMS 102 and CMS 103. Cr. 3.

CMS 202 Writing for Popular Print Media
This introduction to magazine writing provides students an opportunity to conceive, craft, and publish original work in different genres for different markets There is a strong emphasis on the utility of writing as a means of organizing and communicating information, as in reporting, and also as a medium for more expressive and entertaining content. Prerequisite: College Writing. Cr. 3.

CMS 203 Introduction to Video Production
This course will examine the phases of video production associated with field and studio productions. Course content will also explore media aesthetics. Prerequisites: None. Cr 3.

CMS 204 Introduction to Video Production Lab
Various production exercises and assignments to illustrate the principles and theories presented in CMS 203 Prerequisite: Concurrent enrollment in CMS 203. Cr 1.

CMS 205 Topics in Media Writing I
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult their media studies advisor for detailed descriptions. Prerequisites: College Writing. Cr. 3.

CMS 210 Topics in Media Criticism I
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult their media studies advisor for detailed descriptions. Prerequisites: College Writing. Cr. 3.

CMS 215 Journalism Reporting and Writing
This course cultivates journalistic/public affairs research and writing. Students learn how to find and develop human and textual primary sources. Likewise, they learn and practice journalistic form and concise, accessible written expression. And students learn to appreciate and model the liberal ideals of public dialogue, debate, and democratic engagement. Prerequisites: College Writing. Cr. 3.

CMS 220 Topics in Media Production I
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult their media studies advisor for detailed descriptions. Prerequisites: None. Cr. 3.

**CMS 222 Digital Radio & Audio Production**

Students will learn the fundamental skills necessary for digital radio and audio production. Learning applications include hosting and producing a radio music program and a public affairs talk show, and producing promotional pieces with digital editing software. Prerequisites: None. Cr. 3.

**CMS 225 Screenwriting**

In this course, students will learn the process of writing scripts for films. A variety of concept development strategies, writing exercises, script examples, and screenings will be used to encourage students to develop their creative writing skills. Emphasis will be placed throughout the class on the process of screenwriting, from idea formation through writing and revision. Each student will produce a detailed outline/beat sheet for a feature-length film. Prerequisites: College Writing. Cr. 3.

**CMS 240 Rhetoric, Media, and Culture**

This course introduces students to ways of understanding media, communication, and culture as processes of language and rhetoric. Key concepts include the rhetoric of everyday life, the significance of signs and symbols, rhetorical methods and criticism, and application to cultural forms ranging from architecture to music and other cultural texts. Prerequisites: CMS 102. Cr. 3.

**CMS 242 Communication and Social Media**

Social media have influenced and altered patterns of human communication and interaction. This course explores social media dynamics including communication in a networked public culture, interpersonal communication online, privacy and information security, social media production and work, media ecologies, and managing media and information in a networked and highly connected world. Prerequisites: CMS 102. Cr. 3.

**CMS 255 Business and Professional Communication**

Designed to provide students with essential communication skills for business and other professional settings, the course covers interpersonal, group, and public communication. These skills include listening actively, giving and receiving constructive feedback, interviewing others, leading groups, negotiating, and making effective public presentations. The course also includes discussions of gender, cultural diversity, and ethics in the workplace. Cr. 3.

**CMS 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. Prerequisites: CMS 102 and CMS 103. Cr. 3.

**CMS 272 Persuasion**

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. Prerequisites: CMS 102. Cr. 3.

**CMS 274 Writing for the Media**

This writing-intensive course is designed to provide students with an overview of media writing. Students will be introduced to radio and television commercial writing, broadcast journalism, and fiction and non-fiction scriptwriting. Prerequisites: College Writing. Cr. 3.

**CMS 284 Introduction to Cinema Studies**

This course offers an introduction to the analysis of film. It examines movies from diverse historical periods, nations, and cinematic traditions, including narrative, documentary, and the avant-garde. In addition to providing a foundation in close analysis, the course also introduces students to fundamental issues in film history and film theory. Prerequisites: College Writing. Cr. 3.

**CMS 286 History of International Cinema to 1945**

This course surveys the history of cinema from its emergence through World War II. It considers the development of Hollywood cinema in conversation with alternative approaches to filmmaking both within and outside the U.S. Paying close attention to film style, it also explores cinema’s economic, social, and technological history. Prerequisites: College Writing. Cr. 3.

**CMS 288 History of International Cinema Since 1945**

This course surveys the history of cinema since World War II. Examining cinema’s metamorphoses in the face of social, economic, technological, and geopolitical changes, the course addresses the emergence of international art cinema, developments in politically critical filmmaking, cinema’s role in globalization, and its confrontation with new media. Prerequisites: College Writing. Cr. 3.

**CMS 290 Intercultural Communication**

This course concerns communication within different cultures (cross-cultural) and between different cultures (intercultural). We examine the
values, beliefs, and assumptions that people hold as they interact with different people. The course combines communication theory and research, and involves the application through activities, papers, and group discussions. Prerequisites: CMS 102. Cr. 3.

CMS 294 Visual Communication
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. Prerequisites: CMS 102 and CMS 103. Cr. 3.

CMS 298 Topics in Communication I
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult MaineStreet for a listing of current topics courses and the CMS homepage for detailed course descriptions. Prerequisites: None. Cr. 3.

CMS 300 Topics in Media Writing II
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult their media studies advisor for detailed descriptions. Prerequisites: College Writing. Cr. 3.

CMS 302 Writing the Feature Story
Students generate story ideas according to their own interests and target them for publication in specific markets. Class time focuses on perfecting writing and editorial skills, developing style and a field of interest, building an accomplished portfolio, and examining the practical and philosophical challenges of writing professionally. There is a strong emphasis on taking the initiative and working independently. Prerequisites: College Writing. Cr. 3.

CMS 303 Media Effects
This course will examine the effects of mass media upon individuals and societies. It will explore such questions as who is affected, what effects occur and how much, which media content is involved, and what situations make effects more or less likely to take place. Prerequisites: CMS 102, CMS 103, CMS 200. Cr. 3.

CMS 305 Writing Opinion: Editorials and Columns
This is a writing intensive course that provides students with the basic skills for writing editorials, columns, and journalistic essays. The emphasis is on economical, persuasive, and strongly argumentative styles of writing. Students will read, analyze, and discuss throughout the semester the work of a leading U.S. essayist/columnist. Prerequisites: CMS 102 and CMS 103. Cr. 3.

CMS 310 Topics in Media Criticism II
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult their media studies advisor for detailed descriptions. Prerequisites: College Writing. Cr. 3.

CMS 315 Broadcast Newswriting
This course introduces the basics of newswriting for television. It stresses brevity and conversational style of writing. Students will learn how to write TV news story scripts, beginning with simple news scripts (readers) and closing with complex scripts (packages). By providing the basics, the course prepares students for an internship with a broadcast news organization. It also offers practical advice on obtaining a job in broadcasting. Prerequisites: CMS 102 and CMS 103. Cr. 3.

CMS 320 Topics in Media Production II
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult their media studies advisor for detailed descriptions. Prerequisites: None. Cr. 3.

CMS 322 Digital Audio Storytelling
Students will learn the craft of creating compelling audio stories with high production values, and how to use Adobe Audition software. Learning applications include: interviews with everyday people, public service announcements, and news feature stories. Prerequisites: None. Cr. 3.

CMS 323 Understanding Technology
This course will examine the relationship between media, technology, and society from a variety of perspectives and disciplines. Through readings and discussions students will develop an understanding of a variety of frameworks and theories that explain technological change and the fundamental relationship between humankind and technology. This course satisfies the Ethical Inquiry requirement in the core curriculum. Prerequisites: CMS 103 or Instructor's permission. Cr. 3.

CMS 324 Photojournalism
This course introduces students to photojournalism norms, aesthetics, ethics, and practices through critical assessment of the work of Pulitzer
Prize winning photographers and applied photography and photographic editing. Prerequisites: none. Cr. 3.

CMS 330 Theories of Interpersonal Communication
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: CMS 102. Cr. 3.

CMS 332 Communication in 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: CMS 102. Cr. 3.

CMS 340 Field Video Production
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: CMS 203 and CMS 204 or Instructor's permission. Cr. 3.

CMS 341 Field Video Production Lab
This lab will provide students with hands-on experience with digital video cameras, production equipment, and digital, non-linear editing software. Students must concurrently be enrolled in CMS 340. Prerequisites: CMS 203 and CMS 204 or Instructor's permission. Cr. 1.

CMS 345 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. Prerequisites: CMS 102. Cr. 3.

CMS 360 Ethical Dilemmas in the Digital Age
This course is about understanding ethical and value choices we make as we communicate in the digital age. We will examine the underlying reasons given for choices we make. Your graded assignments focus upon writing papers and leading and participating in discussion. Prerequisites: Sophomore standing or permission of the instructor. Cr. 3.

CMS 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: CMS 102 and CMS 103. Cr. 3.

CMS 374 Media Criticism and Aesthetics
This course introduces students to the variety of critical approaches applied to the analysis of media. The content of this course will focus on traditional and contemporary analysis of media. The aim of this course is to provide a critical context for the consumption of media content. Prerequisites: CMS 103. Cr. 3.

CMS 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. Prerequisites: CMS 102. Cr. 3.

CMS 380 Film Genres
This course will explore a genre found in film history. The genre selected for any given semester could be taken from such established ones as science fiction, horror, screwball comedies, musicals, or film noir. May be repeated for credit when topics vary. Prerequisites: College Writing. Cr. 3.

CMS 384 Topics in Cinema Studies
This course explores a key topic in the field of Cinema Studies. The focus for a given semester could be on a particular national cinema, directorial oeuvre, genre, technology, aspect of film styule, or issue in film theory. May be repeated for credit when topics vary. Prerequisites: College Writing. Cr. 3.

CMS 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: CMS 102 and CMS 103. Cr. 3.
CMS 394 Theories of Cinema
This course examines major approaches to conceptualizing the function and effects of cinema within classical and contemporary film theory. It explores topics including medium specificity, realism, and spectatorship, considering cinema's relation to language, the world, and other media as well as political implications, psychic appeal, and bodily address. Prerequisites: CMS 284. Cr. 3.

CMS 398 Topics in Communication II
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult MaineStreet for a listing of current topics courses and the CMS homepage for detailed course descriptions. Prerequisites: CMS 102, CMS 103, and CMS 200. Cr. 3.

CMS 400 Senior Project
This course offers graduating seniors in media studies an opportunity to complete a media portfolio (resume, sample media-related work, and reflective writing). Students are also required to complete a group media application project. Students will present their work to an audience of faculty and peers. Students will further develop career strategies by participating in workshops. Prerequisites: CMS 102, CMS 103, CMS 200, media studies major, and senior standing. Cr. 3.

CMS 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: CMS 102, CMS 103, and junior or senior standing. Cr. 3.

CMS 423 The First Amendment
This course examines the philosophy, court cases, and issues relevant to the First Amendment right to free expression. In this class, students will learn functions of speech in society, the development of communication policy, and current communication laws and rules. Prerequisites: junior or senior standing. Cr. 3.

CMS 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: Communication major, junior or senior standing. Pass/fail only. Credit variable (1-15).

CMS 440 Advanced Field Video Production
This course continues to explore the concepts introduced in MES 340 and MES 240. Students will 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. Prerequisites: CMS 203 and CMS 204 or Instructor's permission. Cr. 3.

CMS 441 Advanced Field Production Lab
This lab will focus on advancing the skills and concepts taught in MES 340/341. This lab will consist of workshops and exercises in image and sound acquisition using digital video cameras and production equipment, as well as advanced video editing principles and techniques using editing software. Students must be concurrently enrolled in CMS 440. Prerequisites: CMS 203, CMS 204, CMS 340, and CMS 341 or Instructor's permission. Cr. 1.

CMS 450 Service Learning Practicum
This course gives students the opportunity to work with organizations outside the University in a professional context. Students will be divided into groups and will work with nonprofit organizations to develop projects, such as a multimedia presentation, a video, or a research report. Prerequisites: Communication or Media Studies major and senior standing or by permission. Cr. 3.

CMS 460 Topics in Media Production III
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Prerequisites: CMS 203/204 or permission of instructor. Cr. 3.

CMS 480 Gender Communication
Gender is a central organizing principle in society, and ideas about gender are expressed through communication. How are language and communication gendered? What does research say about gender in the workplace, media, and educational settings? Such questions will be explored with the goal to increase awareness of gender communication. Prerequisites: CMS 102, CMS 103, and junior or senior standing. Cr. 3.

CMS 484 Advanced Topics in Cinema Studies
This course is a senior seminar designed to explore a particular topic in cinema studies. The focus for a given semester could be on a particular national cinema, directorial oeuvre, genre, technology, aspect of film style, or issue in film theory. Class sizes are limited in order for students to participate in discussion and contribute to the group's synergy. Prerequisites: CMS 284 and junior or senior standing. Cr. 3.

CMS 486 Women in Film
This course will explore the depiction of women in film. Films will be analyzed in the context of the political and ideological subtexts they
contain. The purpose of the analysis is to understand a film and to be able to relate it to the society that it reflects and sometimes affects. Prerequisites: CMS 102, CMS 103, and junior or senior standing. Cr. 3.

**CMS 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: CMS 102, CMS 103, and junior or senior standing. Cr. 3.

**CMS 491 Independent Study**
A concentrated program of research or study on a particular topic approved and guided by a Department faculty member. The student and faculty member will have periodic conferences throughout the semester to discuss the progress and outcomes of the student's work. Prerequisites: Junior or senior standing and faculty approval. Cr. 3-6.

**CMS 492 Internships in Media Studies**
This course offers students the opportunity to develop media expertise by working with professionals in the field. Typically, the intern will work closely with a mentor in a sponsoring organization to gain practical skills and to develop strategies for transitioning from college to professional placement. An application process is required. Prerequisites: media studies major, junior or senior standing or by permission. Cr. Variable (1-6 per internship; 15 total).

**CMS 495 Theories of Communication**
This course is designed for upper class students 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: CMS 102, CMS 200, junior or senior standing. Cr. 3.

**CMS 498 Topics in Communication III**
A selection of courses varying in content from term to term. May be repeated for credit when topics vary. Students should consult MaineStreet for a listing of current topics courses and the CMS homepage for detailed course descriptions. Prerequisites: CMS 102, CMS 103, CMS 200, and junior or senior standing. Cr. 3.
Criminology

Criminology Overview

Chair of the Department: James Messerschmidt, Portland

Professors: Beirne, Bjelic, Messerschmidt, Wachholz

The Program is well-known for its critical perspectives and published research on criminological theory, gender, multi-cultural, and comparative analyses. The faculty have won regional, national, and international awards for scholarship, teaching innovations, and community service. In addition, all faculty members have had significant professional training outside the United States, including in Australia, Britain, Sweden, and the former Yugoslavia.

While some students enroll in the major expecting to learn law enforcement skills and strategies, psychological profiling, forensic investigation, and approaches to prosecution, this is not the program's focus. Criminology courses examine social structural foundations of crime, deviance, and social harm, including the social control institutions, as well as the power dynamics involved in defining crime, prosecuting crime, and official sanctions for deviance and those "at risk." The dynamics of racism, sexism, class inequality, and heterosexism as they impact perceived realities of "crime" are also systematically explored in the program's courses. The notion that "crime" is simply about breaking the law is not accepted at face value; the concept and the broader discipline of criminology as it relates to faculty research, teaching, and community service are examined.

Internships

The Criminology Program offers a strong and established internship program. As a required course, the internship actively seeks to bring together student academic work and community involvement. Students are strongly encouraged to begin preparation for their internship the semester prior to the one in which they intend to register for the course.

Major Credit and Minimum Grade Policy

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. Before taking upper-level criminology courses, students must have completed CRM 100 with a grade of C or better. To complete the major successfully, students must have achieved a grade of C or better in all courses taken for the major.

Transfer Students

Transfer students and students contemplating transfer into the Criminology Program are urged to meet with the Program Coordinator as early as possible for an evaluation of their progress and their requirements in the major.

Supplementary information is published each semester by the Criminology Program 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: Administrative Specialist, Criminology Program, University of Southern Maine, P.O. Box 9300, Portland, Maine 04104-9300 or telephone (207) 780-4105.

BA in Criminology

Description

The Criminology Program offers a four-year bachelor of arts (BA) degree in criminology. The program provides students with a liberal arts education focused on 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 should be taken in sequence if possible. 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.

**Program Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36. A grade of "C" or better is required in any course used for criminology major credit.

**Required Courses (24 credits)**

- CRM 100 Introduction to Criminology
- CRM 216 White-Collar Crime
- Choose one Research Methods course from the following:
  - CRM 220 Research Methods in Criminology
  - SOC 301 Qualitative Research Methods
  - SOC 307 Quantitative Research Methods
  - SBS 329 Research Methods
  - SWO 333 Social Work Research I
  - CRM 310 Classical Theories of Social Order
  - CRM 317 Gender and Crime
  - CRM 365 Race and Punishment
  - CRM 395 Internship (3 credits)
  - CRM 401 Comparative Criminology

**Elective Courses (12 credits)**

Students must choose four elective courses (12 hours) from the following list:

- CRM 217 Crime in Maine
- CRM 222 Field Studies in Informal Social Order
- CRM 225 Crimes Against the Environment
- CRM 230 Introduction to the Criminal Justice System
- CRM 320 Film and Social Order
- CRM 325 Domestic Violence
- CRM 327 Animal Abuse
- CRM 337 Youth Crime
- CRM 340 Criminal Law
- CRM 345 Criminology in Sweden
- CRM 350 Topics in Criminology
- CRM 360 The Death Penalty
- CRM 365 Race and Punishment
- CRM 370 Reflexive Criminology
- CRM 375 Media, Crime, and Criminalization
- CRM 380 Restorative Justice
- CRM 390 Independent Projects
- CRM 395 Internship
- CRM 402 Senior Seminar

**Recommended Course Sequence**

Curriculum Summary and Guide

The criminology curriculum is a series of structured and integrated courses that should be taken in sequence, if possible.

<table>
<thead>
<tr>
<th>Year</th>
<th>Required Courses</th>
<th>Elective Courses</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to Criminology</td>
<td></td>
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<tr>
<td>2</td>
<td>White-Collar Crime Research Methods</td>
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<tr>
<td>3</td>
<td>Race and Punishment Gender and Crime Classical Theories of Social Order</td>
<td>Electives</td>
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<tr>
<td>4</td>
<td>Internship</td>
<td>Electives</td>
</tr>
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</table>
Minor in Criminology

Description

See Program Requirements

Program Requirements

The number of credit hours required for the minor is 18. A grade of "C" or better is required in any course used for criminology minor credit.

Required Courses

CRM 100 Introduction to Criminology
CRM 216 White-Collar Crime
Choose one Research Methods course from the following:
CRM 220 Research Methods in Criminology
SOC 301 Qualitative Research Methods
SOC 307 Quantitative Research Methods
SBS 329 Research Methods
SWO 333 Social Work Research I

Choose one of the following:

CRM 310 Classical Theories of Social Order
CRM 317 Gender and Crime
CRM 365 Race and Punishment
CRM 395 Internship
CRM 401 Comparative Criminology

Elective Courses:
Choose any TWO CRM courses

Course Descriptions

Criminology Course Descriptions

CRM 100 Introduction to Criminology
This course focuses on the nature of crime and 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. No prerequisites. A grade of C or better is required in this course in order to continue in the major. 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, and political crime. Prerequisite: CRM 100 or permission. 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 100 or permission. Cr 3.

CRM 220 Research Methods in Criminology
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 100 or permission. 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 100 or permission. Cr 3.

CRM 225 Crimes Against the Environment
This course is designed to expose students to many of the prominent controversies and challenges associated with defining, measuring, and responding to crimes against the environment. Central to the course is an examination of the relationship between socioeconomic power and its effect on responses to environmental change. Prerequisite: CRM 100 or permission. Cr 3.

CRM 230 Introduction to the Criminal Justice System
This course is designed to provide students with an understanding of the criminal justice system in the United States from a sociological perspective. Students will become familiar with criminal justice functions such as policing, trials, defense and prosecution of cases, and corrections. Also, students are required to prepare a mock trial of a criminal case. Prerequisite: CRM 100 or permission. 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 100 or permission. 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 100 or permission. 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 100 or permission. 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 100 or permission. Cr 3.

CRM 325 Domestic Violence
This course explores contemporary theoretical and policy debates on domestic violence as a social problem and crime. Topics include partner abuse, child abuse, and elder abuse. The definition and measurement of domestic violence are analyzed. Comparison of legal and community responses to domestic violence is emphasized. Special attention is given to economic and ethnic diversity as they relate to domestic violence. Prerequisite: CRM 100 or permission. Cr 3.

CRM 327 Animal Abuse
Key questions about the nature and forms of animal abuse are subjected to interdisciplinary inquiry spanning sociology, criminology, moral philosophy, and law. The course begins with individualized forms of animal abuse, such as cruelty, neglect, and sexual assault. It then examines institutionalized forms of abuse in research, zoos, hunting, sport/entertainment, and food production. Attention is also given to the link(s) between animal abuse and interhuman violence. Prerequisite: CRM 100 or permission. Cr 3.

CRM 330 Crime and Social Control
This course explores theoretical and practical issues of modern systems of social control, including punishment, policing, prisons, parole, probation, and the role of the state in social control. The history of Western social control systems is stressed, with emphasis on race, gender, and class effects. Students are required to engage in experiential learning. Prerequisites: CRM 100 or permission. Cr 3.

CRM 334 Law and State
This course explores the relationship between the United States's social welfare policies and contemporary crime control problems and practices. It includes an examination of the United States's residual welfare state, theories on social welfare development, and the Nordic model of crime prevention, which is based on the premise that crime can be reduced through social policies designed to lessen structural inequalities. Prerequisite: CRM 100 or permission. 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 a historical approach to youth crime. Prerequisite: CRM 100 or permission. 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 100 or permission. 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 100 or permission. Cr 6.

CRM 350 Topics in Criminology
Specially developed courses exploring areas of interest and concern in depth. Topics which may be considered include 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 100 or permission. Cr 3.

CRM 360 The Death Penalty
This course is designed to provide students with historical and current information on the death penalty in the United States. The following topics are covered: historical applications, deterrence, racial and gender bias, execution of innocent people, and the legal, political, economic, and moral perspectives of the death penalty. Prerequisite: CRM 100 or permission. Cr 3.

CRM 365 Race and Punishment
The objective of this course is to examine the racial history of the American legal system and its relationship to the United States criminal justice system. The course focuses on the inherent contradiction due to the absence of social justice between the constitutional promise of human rights and their actual suppression, the contradiction between personal ethics espousing racial justice and emancipation, and the ethics of political power, which legitimate their suppression. Prerequisite: CRM 100 or permission. Cr. 3.

CRM 370 Reflexive Criminology
A reflexive approach to criminology examining criminological theories and perspectives as cultural and ideological products. Using cross-cultural and historical comparisons, the course analyzes the conditions under which "criminology" is produced. We also explore the connections between the product of the "criminology industry" and the reproduction of broader cultural and ideological patterns. Prerequisites: CRM 100 or permission. Cr 3.

CRM 375 Media, Crime, and Criminality
It is important to examine how the media assemble, select, and disseminate "crime knowledge" to audiences and thus influence their understanding of crime. The course uses a social constructionist approach to explore structural, institutional, and interactional contexts of media production. Prerequisite: CRM 100 or permission. Cr 3.

CRM 380 Restorative Justice
This course explores theory and research on restorative justice, which is an international movement of "progressive' reform that claims to reduce social inequalities generating crime. Students explore theoretical and empirical developments in restorative justice and examine programs claiming restorative components, such as victim-offender mediation and diversionary conferences. Prerequisites: CRM 100 or permission. 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 100 and permission of instructor. Cr var.

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. Also, students must have completed 53 or more credit hours by the end of the semester in which they register for the course. Contact Department internship coordinator for details. Prerequisites: CRM 100 or permission. 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 100, 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 100, CRM 220 and junior or senior class standing. Cr 3.
Economics

Economics Overview

Professors: Feiner, Hillard; Associate Professor: Medley; Visiting Associate Professor: Mamgain

The undergraduate program in economics provides practical preparation for a variety of careers as well as for graduate study in economics, business administration, public policy, and law. Economics is a social science and as such is best studied in the context of broader exposure to the liberal arts and sciences.

To be eligible for a degree, a student must complete 120 credit hours fulfilling the University's Core curriculum requirements and all requirements for the major. Note that only one course carrying the prefix ECO can be used to satisfy both Core curriculum and economics major requirements. ECO 120 satisfies the Quantitative Reasoning Core curriculum requirement; all other 100-level Economics courses satisfy a second-tier Core curriculum requirement.

The Program offers two different undergraduate degree programs (bachelor of arts, bachelor of science), which allow students to choose the combination of courses most appropriate for their future plans.

Note also the interdisciplinary minor in labor studies, which is described in the College of Arts, Humanities, and Social Sciences section of this catalog.

Specific, current academic year catalog edition USM Economics major and minor degree requirements can be viewed via Degrees & Certificates.

Note to incoming and current USM students—The specific USM Economics major and minor degree requirements identified above are valid only if:

1. You are presently considering applying to USM for admission to pursue a baccalaureate degree
   OR
2. You are/were a newly matriculated USM Economics major or minor during the current academic year
   OR
3. You are currently a matriculated US student and you have declared the Economics BA or BS major or minor during the current academic year
   OR
4. You are currently a matriculated USM Economics BA or BS major and you have formally elected to change your catalog to the current academic year catalog edition identified above by officially notifying the USM Registrar of your intention.

Otherwise, please refer to the USM undergraduate catalog edition that corresponds with your USM "Requirement Term.” You may access previous USM catalog editions online at the following URL address: http://usm.maine.edu/catalogs and you may also access USM Department of Economics BA, BS and Minor in Economics curriculum "Worksheets” that correspond to your USM "Requirement Term” for use in tracking your academic progress in the Economics major or minor at the following URL address: http://www.usm.maine.edu/eco/academic-advisement-worksheets

What Skills Does an Economics Education Provide?

Economics is a marketable liberal arts degree. Liberal arts majors (social sciences and humanities) develop excellent writing and research skills, and increase a student's knowledge of the world. These majors also help students build a stronger and more informed sense of identity and values. Economics at USM also provides students critical thinking and analytical (including statistical) skills.

What Can I Do with a Degree in Economics?

One of the biggest concerns students have is life after graduation. An economics degree is a solid foundation for many careers and for graduate school. Our graduates have, for example, found jobs at Bath Iron Works (finance department), the Maine State Legislature (Senate Majority Leader's staff), and the Maine Department of Labor (data analysts).

Our graduates have also pursued Master's and Doctoral programs at Cornell University, University of California-Riverside, University of California-Santa Cruz, University of Notre Dame, University of Denver, and USM Muskie School of Public Service. Several have completed a Ph.D. in Economics. Undergraduate students considering graduate school must maintain a high grade-point average (GPA). A high GPA is
essential to having broad choice in choosing particular graduate schools and programs.

Baccalaureate Degree Requirements

To be eligible for a baccalaureate degree, a student must complete 120 credit hours, including fulfilling the University's Core curriculum requirements and all Economics Program degree requirements, either through courses taken at USM or through the transfer of courses from other institutions of higher education.

BA in Economics

Description

The undergraduate program in economics provides practical preparation for a variety of careers as well as for graduate study in economics, business administration, public policy, and law. Economics is a social science and as such is best studied in the context of broader exposure to the liberal arts and sciences.

Economics is a marketable liberal arts degree. Liberal arts majors (social sciences and humanities) develop excellent writing and research skills, and increase a student's knowledge of the world. These majors also help students build a stronger and more informed sense of identity and values. Economics at USM also provides students critical thinking and analytical (including statistical) skills.

Program Requirements

BA in Economics

Track A Liberal Arts (36 credits)

Major Requirements (18 credits)

  ECO 101 Introduction to Macroeconomics
  ECO 102 Introduction to Microeconomics
  ECO 103 Critical Thinking About Economic Issues (a 2XX or above ECO course may be substituted for ECO 103)
  ECO 301 Intermediate Macroeconomics
  ECO 302 Intermediate Microeconomics
  ECO 303 Political Economy

Major Electives (18 credits)

You must take at least six major elective courses; a minimum of four must be from the following ECO courses:

  ECO 220 U.S. Economic and Labor History
  ECO 305 Research Methods in Economics
  ECO 310 Money and Banking
  ECO 312 U.S. Economic Policy
  ECO 315 Economic Development
  ECO 316 Case Studies in International Development
  ECO 319 Macroeconomics: Debt and Finance
  ECO 321 Understanding Contemporary Capitalism
  ECO 322 Economics of Women and Work
  ECO 323 U.S. Labor and Employment Relations
  ECO 325 Industrial Organization
  ECO 326 Environmental Economics
  ECO 327 Natural Resource Economics
  ECO 328 Rural and Regional Economic Development
  ECO 330 Urban Economics
  ECO 333 Economics and Happiness
  ECO 335 The Political Economy of Food
  ECO 340 History of Economic Thought
ECO 350 Comparative Economic Systems
ECO 370 International Economics
ECO 380 Public Finance and Fiscal Policy
ECO 381 State and Local Public Finance
ECO 399 Special Topics in Economics
ECO 450 Readings in Economics
ECO 490 Independent Readings and Research in Economics

You may select up to two (of the six required courses) from the following list:
CRM 216 White-Collar Crime
CRM 225 Crimes Against the Environment
GEO 302 Gender, Work, and Space
GEO 303 Economic Geography
POS 340 The Politics of Developing Nations
SOC 348 Sociology of Work
SOC 358 Sociology of Women's Work
WGS 365 Topics in Gender and Institutions II
WGS 465 Topics in Gender and Institutions III

Track B Math Intensive (38 credits)
(recommended for graduate study in economics or related fields)

Major Requirements (15 credits)
- ECO 101 Introduction to Macroeconomics
- ECO 102 Introduction to Microeconomics
- ECO 301 Intermediate Macroeconomics
- ECO 302 Intermediate Microeconomics
- ECO 303 Political Economy

Math Requirements (11 credits)
- MAT 152 Calculus A
- MAT 153 Calculus B
- MAT 380 Probability and Statistics

Major Electives (12 credits)
Select four courses from the above list of ECO major elective courses.

Admission Information

To be eligible for a degree, a student must complete 120 credit hours fulfilling the University's Core curriculum requirements and all requirements for the major.

BS in Economics

Description

The undergraduate program in economics provides practical preparation for a variety of careers as well as for graduate study in economics, business administration, public policy, and law. Economics is a social science and as such is best studied in the context of broader exposure to the liberal arts and sciences.

Economics is a marketable liberal arts degree. Liberal arts majors (social sciences and humanities) develop excellent writing and research skills, and increase a student's knowledge of the world. These majors also help students build a stronger and more informed sense of identity and values. Economics at USM also provides students with critical thinking and analytical (including statistical) skills.

The BS curriculum is recommended for students interested in a liberal arts economics education with greater stress on business and quantitative skills.
Program Requirements

BS in Economics (37 credits)

Major Requirements (15 credits)

- ECO 101 Introduction to Macroeconomics
- ECO 102 Introduction to Microeconomics
- ECO 301 Intermediate Macroeconomics
- ECO 302 Intermediate Microeconomics
- ECO 303 Political Economy

Other Requirements (7 credits)

- ACC 110 Financial Accounting Information for Decision Making
- MAT 210 Business Statistics

Major Electives (15 credits)

You must take at least five major elective courses; a minimum of three must be from the following ECO courses:
- ECO 220 U.S. Economic and Labor History
- ECO 305 Research Methods in Economics
- ECO 310 Money and Banking
- ECO 312 U.S. Economic Policy
- ECO 315 Economic Development
- ECO 316 Case Studies in International Development
- ECO 319 Macroeconomics: Debt and Finance
- ECO 321 Understanding Contemporary Capitalism
- ECO 322 Economics of Women and Work
- ECO 323 U.S. Labor and Employment Relations
- ECO 325 Industrial Organization
- ECO 326 Environmental Economics
- ECO 327 Natural Resource Economics
- ECO 328 Rural and Regional Economic Development
- ECO 330 Urban Economics
- ECO 335 The Political Economy of Food
- ECO 340 History of Economic Thought
- ECO 350 Comparative Economic Systems
- ECO 370 International Economics
- ECO 380 Public Finance and Fiscal Policy
- ECO 381 State and Local Public Finance
- ECO 399 Special Topics in Economics
- ECO 450 Readings in Economics
- ECO 490 Independent Readings and Research in Economics

You may select up to two (of the five required courses) from the following list:

- BUS 275 Applied Business Analysis
- BUS 335 International Business
- BUS 340 Managing Organizational Behavior
- BUS 361 International Marketing
- BUS 365 Consumer Behavior
- BUS 370 Management Science
- BUS 385 Entrepreneurship and Venture Formation
- FIN 320 Basic Financial Management
- FIN 326 Financial Modeling
- FIN 327 Investment Management
- FIN 330 International Financial Management
**Minor in Economics**

**Description**

A Minor in Economics is available to students in any major within the University.

Students wishing to pursue the minor must be in good standing with the University and submit a completed Declaration of Minor form to the Office of Registration & Scheduling Services.

**Program Requirements**

**Requirements for a Minor in Economics** (18 credits)

**Required Courses:**
- ECO 101 Introduction to Macroeconomics
- ECO 102 Introduction to Microeconomics

Select one of the following courses:
- ECO 103 Critical Thinking About Economic Issues
- ECO 105 A Novel Approach to Economics
- ECO 106 Economics of Social Change

Select three of the following courses numbered 200 or above:
- ECO 220 U.S. Economic and Labor History
- ECO 301 Intermediate Macroeconomics
- ECO 302 Intermediate Microeconomics
- ECO 303 Political Economy
- ECO 305 Research Methods in Economics
- ECO 310 Money and Banking
- ECO 312 U.S. Economic Policy
- ECO 315 Economic Development
- ECO 316 Case Studies in International Development
- ECO 319 Macroeconomics: Debt and Finance
- ECO 321 Understanding Contemporary Capitalism
- ECO 322 Economics of Women and Work
- ECO 323 U.S. Labor and Employment Relations
- ECO 325 Industrial Organization
- ECO 326 Environmental Economics
- ECO 327 Natural Resource Economics
- ECO 328 Rural and Regional Economic Development
- ECO 330 Urban Economics
- ECO 333 Economics and Happiness
- ECO 335 The Political Economy of Food
- ECO 340 History of Economic Thought
- ECO 350 Comparative Economic Systems
- ECO 370 International Economics
- ECO 380 Public Finance and Fiscal Policy
- ECO 381 State and Local Public Finance
- ECO 399 Special Topics in Economics
- ECO 450 Readings in Economics
- ECO 490 Independent Readings and Research in Economics

**Admission Information**

Students wishing to pursue the minor must be in good standing with the University and submit a completed Declaration of Minor form to the Office of Registration & Scheduling Services.
Accelerated Graduate Pathway - Economics to Policy, Planning, and Management (MPPM)

For highly motivated undergraduate students who are already looking ahead to graduate school, USM offers an Accelerated Graduate Pathway to the MPPM program that allows you to begin graduate study while completing your bachelor's degree, saving you time and money -- which means you'll be ready for a career that much sooner, with your bachelor's and master's degrees in hand.

In order to gain full admission into the Master of Arts in Policy, Planning and Management, a student must meet the following admission standards:

- Choose a major in Geography-Anthropology, Environmental Science and Policy, or Economics
- Earn at least a B for all courses in these majors, as well as in any 500-level graduate courses taken at the undergraduate level
- Earn a cumulative GPA of 3.0 at time of matriculation into graduate program.
- Complete the following courses with grades of B or better: a course in Statistics that meets USM’s Quantitative Reasoning Core Requirement, a course in Microeconomics (or a course equivalent to ECO 102 or higher).

How to Apply:

- On the Common App, select your preferred choice of major; then you will see the following option: “Please indicate your interest in one of the following accelerated pathway options at the University of Southern Maine” from which you can select a Pathway.
- In the University of Maine System application, select your First Choice Major; then you will see the following drop-down menu: Accelerated Graduate Degree Pathway (First Choice Major), from which you can select a Pathway.
- If you are a Transfer or Continuing Student, please contact the University of Southern Maine Advising Office to meet with an academic advisor who can review your previous coursework and determine your eligibility for entering an Accelerated Graduate Pathway. Please call (207) 780-4040 or email: usm.advising@maine.edu

Description

The Accelerated Graduate Pathway - Economics to MPPM prepares students for leadership roles in government, nonprofit organizations, and the private sector by developing a strong, multi-disciplinary foundation of skills and knowledge in the fields of policy, planning, and management. Coursework focuses on conceptual learning and application through use of real-world data, case studies, and client- and community-based projects and assignments found in both upper level undergraduate and master’s level. The degree is designed for working professionals and pre-career students from diverse educational backgrounds who aspire to professional roles and careers as leaders, managers, advocates, activists, planners, or analysts in areas related to the environment, sustainable development, and economic and social policy.

Matriculated Eco-MPPM students with at least 84 undergraduate credits may take six of the following seven courses prior to completing their undergraduate degree:

- CPD 502 Sustainable Communities and Sustainable Development (MPPM core requirement)
- PPM 521 Social Justice Theory and Public Policy
- ECO 523 US Labor and Employment Relations
- ESP 526 Environmental Economics
- ESP 527 Natural Resource Economics
- GEO 502 Gender, Work and Space
- GEO 503 Economic Geography

After completion of BA or BS in Economics, students would complete the MPPM core requirements by taking the following three courses:

- PPM 610 Governance, Democracy, and Policymaking (MPPM core requirement)
- PPM 615 Organizational Theory, Management, and Leadership (MPPM core requirement)
- PPM 640 Public Financing and Budgeting (MPPM core requirement)

A final three classes could include completing a concentration in Public Policy (two additional classes, i.e. PPM 620 and 622).

- PPM 620 Policy Analysis (Policy concentration requirement)
- PPM 622 Applied Policy Analysis (Policy concentration requirement)

And a third course from among these electives to reach the required total of 36 credits:
Course Descriptions

Economics Course Descriptions

Courses taught on regular rotation are so noted in each description; other courses not so noted are taught at least biannually unless faculty resources are unavailable.

ECO 120 satisfies the Quantitative Reasoning Core curriculum requirement; all other 100-level economics courses satisfy a second-tier Core curriculum requirement.

Note that only one course carrying the prefix ECO can be used to satisfy both the Thematic Cluster Core curriculum and economics major requirements.

ECO 100 Introduction to Economics: 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.
Prerequisite: None. Cr 3.

ECO 101 Introduction to 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.
Prerequisite: None. Every semester. Cr 3.

ECO 102 Introduction to Microeconomics
Introduction to the analysis of individual markets: the functioning of prices in a market economy, 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.
Prerequisite: None. Every semester. Cr 3.

ECO 103 Critical Thinking About Economic Issues
This course aims to develop critical thinking skills through the study of competing interpretations and analyses put forward by economists. Students will use a variety of texts, media, and activities to better understand controversial topics in economics. The specific thematic focus of ECO 103 may vary from section to section. Examples of topics which may be examined include the economics of health care, economic inequality, the global economy, and the economics of the environment.
Prerequisites: College Writing. Every semester. Cr 3.

ECO 104 The U.S. in the World Economy
Students will examine national and global economic issues through consideration and application of economic theories. They will analyze and discuss basic economic principles and viewpoints, traditional policy approaches, post-World War II transformation in the U.S. economy, the impacts of the changing global economy on various aspects of life in the United States and will develop policy responses to these issues.
Prerequisite: None. Yearly, spring. Cr 3.

ECO 105 A Novel Approach to Economics
This course will use fiction and non-fiction to explore key issues in economic analysis and policy formation. The impact of institutional change on production, distribution, and consumption will be the principal focus of the course. Students will discuss and write about the texts; some graphical analysis will be employed.
Prerequisite: None. Yearly, fall. Cr 3.
ECO 106 Economics of Social Change
Students will explore connections among major socioeconomic transformations (e.g., the spread of market relations, industrialization, and new technologies), massive movements of people (from countryside to city, from one nation to another), the resulting clash of cultures, and the social construction of human worth. Students will analyze debates over social policy, economic performance and the relative standards of living.
Prerequisite: None. Cr 3.

ECO 108 Economic Journalism
This course introduces students to current economic and public policy events in the United States. Guided research resulting in reporting of economic trends as well as advocacy pieces will be communicated to a broader public via social media, emphasizing the impact of national trends in Maine.
Prerequisites: College Writing, EYE. Cr 3.

ECO 120 Lying with Graphs: Reading, Writing and Interpreting Graphs in the Social Sciences
If a picture's worth a thousand words, a graph's worth a thousand numbers. Graphs can be used to explain, present, and—yes—distort information. During this course, you will learn how to correctly interpret, critique, and construct graphs, as well as avoid the pitfalls often encountered in using graphs to communicate.
Prerequisite: Students must meet college readiness in mathematics prior to enrollment. Cr 3.

ECO 220 U.S. Economic and Labor History
This course examines labor issues in the U.S. economy, combining analytical and historical perspectives. The course surveys the evolution of labor in the U.S. economy from the industrial revolution to the present, considers the history of the American worker and of the U.S. labor movement, and analyzes labor markets and their relationship to the competitiveness of the U.S. economy.
Prerequisite: None. 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 101 and ECO 102, or ECO 100 and permission of instructor. Yearly. 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 101 and ECO 102, or ECO 100 and permission of instructor. Yearly. Cr 3.

ECO 303 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 101, ECO 102, and either ECO 301 (or concurrent) or ECO 302 (or concurrent) or permission of instructor. Yearly, fall. Cr 3.

ECO 305 Research Methods in Economics
Measures of central tendency, basic probability theory, and hypothesis testing will be discussed. With a focus on economic data, the relationship between random variables will be examined using linear regression models and computer software.
Prerequisites: MAT 120 and proficiency in Microsoft Excel™ or permission of instructor. 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 101, ECO 102. Cr 3.

ECO 312 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.
Prerequisite: Any 100-level ECO course. Cr 3.

ECO 315 Economic Development
The theories and practices of interregional and international economic development. Special attention is given to developmental problems of emerging nations.
Prerequisite: Any 100-level ECO course. Cr 3.

ECO 316 Case Studies in International Development

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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.  
**Prerequisite:** Any 100-level ECO course.  
**Cr 3.**

**ECO 319 Macroeconomics: Debt and Finance**
Focuses on alternative and conflicting approaches to the role(s) of debt, private and public, in modern macroeconomies—debt in relation to aggregate demand growth, cyclic instability (“bubbles”), counter-cyclical policy, and as a long-term constraint on policy possibilities. Attention is given to the “Modern Monetary Theory” approach and its critics.  
**Prerequisite:** ECO 301 or permission of instructor.  
**Cr 3.**

**ECO 321 Understanding Contemporary Capitalism**
This course analyzes the character and dynamics of leading contemporary capitalist economies, emphasizing historical, comparative, and institutional perspectives. These perspectives are used to address a wide range of contemporary economic issues, including national R&D policy, financial regulation, public and private human resource investments, and organizational strategies.  
**Prerequisite:** None.  
**Cr 3.**

**ECO 322 Economics of Women and Work**
This course examines women’s post-WWII experiences in paid work settings in the U.S. The class will assess a range of theories designed to explain women’s access to well-paying jobs and career ladders while maintaining family responsibilities. In addition, students will consider the effectiveness of a variety of public policies for greater labor market equity.  
**Prerequisite:** None.  
**Cr 3.**

**ECO 323 U.S. Labor and Employment Relations**
This course considers the evolution of 20th-century U.S. labor relations, particularly the competing fortunes of union and non-union labor relations models, as well as the impact of changing institutions on labor markets. It also surveys the evolving perspectives of industrial relations theorists and practitioners.  
**Prerequisite:** None.  
**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 101, ECO 102.  
**Cr 3.**

**ECO 326 Environmental Economics**
This course considers the economic aspects of environmental issues, such as pollution and environmental degradation, environmental justice, and global climate change. In addressing each of these issues we will investigate the implications of various public policy responses such as regulation, marketable permits, and tax incentives.  
**Prerequisite:** ECO 102 or permission of instructor.  
**Cr 3.**

**ECO 327 Natural Resource Economics**
In this course, we will consider the economic aspects of natural resource management and use, including the economically sustainable management of fisheries, forests, water resources, and biodiversity, with applications to Maine and beyond. We will investigate the implications of public policy responses such as regulations, marketable permits, and tax incentives.  
**Prerequisite:** ECO 102 or permission of instructor.  
**Cr 3.**

**ECO 328 Rural and Regional Economic Development**
This course focuses on rural areas and the unique characteristics that influence their economic development. Students will investigate the roles of government, demographics, location of industries, natural resources, technology, amenities and institutions within the context of rural and regional areas. Special attention will be given to rural areas in Maine, Appalachia, and the Mississippi River Delta. A section of the course will be devoted to the rural areas of less developed countries.  
**Prerequisite:** ECO 102 or permission of instructor.  
**Cr 3.**

**ECO 330 Urban Economics**
This computer-intensive course studies the growth and decline of urban regions. Census data are used to examine the dynamics of urban population change, with special reference to the northeastern United States.  
**Prerequisite:** ECO 102 or permission of instructor.  
**Cr 3.**

**ECO 333 Economics and Happiness**
Presents the limited relationship between economic well-being and happiness. Students will learn differing assessments and determinants of happiness as presented by economists, psychologists, and neuroscientists. In addition, they will examine the influence of ethics, altruism, and cooperation on well-being and will conclude by examining policy implications.  
**Prerequisite:** ECO 101 or ECO 102 or permission of instructor.  
**Cr 3.**
ECO 335 The Political Economy of Food
This course examines the inter-relatedness of production, distribution, and consumption of food in a global economy. Topics include the role of government policies in the U.S. and India, the impact of multinational agro-corporations on traditional methods of food production, and the subsequent impact on income and entitlements to food.
Prerequisites: Any 100-level ECO course and College Writing or permission of instructor. Cr 3.

ECO 340 History of Economic Thought
A survey of the development of modern economic theories, focusing in particular on Smith, Ricardo and Malthus, Marx, the marginalists, and Keynes. Consideration is also given to contemporary debates which exemplify historical controversies among theories.
Prerequisites: ECO 101, ECO 102. Cr 3.

ECO 350 Comparative Economic Systems
The structures and operating principles of the major contemporary economic systems are examined and compared.
Prerequisite: ECO 100 or ECO 101. 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 101, ECO 102. 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 101, ECO 102. 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 101, ECO 102. Cr 3.

ECO 399 Special Topics in Economics
Prerequisite(s): Depends on topic. Cr 3.

ECO 450 Readings in Economics
A series of readings and discussions of important books and articles of a socio-economic and politico-economic nature.
Prerequisite: None. Cr 3.

ECO 490 Independent Readings and Research in Economics
Independent study and research of various student-selected areas of economics.
Prerequisites: ECO 101 or ECO 102 or permission of a faculty sponsor, junior or senior-level standing, a completed Independent Study Approval Form and sponsorship by an economics faculty member.
May be taken more than once. Cr 1–6.
English Overview

Chair of the Department: Gerry Peters, 325 Luther Bonney, Portland

Professors: Kuenz, McGrath, Muthyala, Peters, Raimon, Waldrep; Associate Professors: Bertram, Carroll, Swartz, Tussing, Walker; Assistant Professor: Ouellette; Emerita: Ashley, Gish

The USM English major is devoted to the study of language, literature, and culture. Focusing upon the British and American literary traditions, the major exposes students to a range of literature in different historical eras. It also offers students the opportunity to explore other traditions such as Irish or Canadian literature, women's writing, and African-American writing. In addition to literatures written in English, course offerings include world literatures in translation from the classical to contemporary eras.

The major encourages both the analysis of literary form and the study of literature in its historical and cultural contexts. Students learn how to read in the light of contemporary critical theories and in relation to the tools, texts, and theories of other academic disciplines. Many classes provide opportunities for the study of non-literary cultural texts and practices such as film, television, fashion, and ritual. Approved courses from other departments and programs may also be counted toward the English major.

The most distinctive skill the major develops is critical expository writing. Virtually every course requires substantial writing from students, ranging from a weekly short paper to longer research papers. Moreover, students have the opportunity to develop their talents in writing through workshops in fiction, poetry, autobiography, and journalism. English majors have traditionally enjoyed participating in the creative communities of Stonecoast Writers’ Conference and Celebrate Writers! The Department also offers a minor in writing. An internship in professional writing provides a means for some students to work locally as writers, editors, and reporters, and an internship in the teaching of writing for students who are planning a teaching career is offered.

Because of the Department's desire to explore relationships among language, literature and culture, English majors are encouraged to study a second language. Opportunities for study abroad are offered through the Department's exchange program with several schools, including Radboud University in the Netherlands, University College Winchester (formerly King Alfred's College) and the University of Central Lancashire in England, and University College, Galway, in the Republic of Ireland.

English majors are continually engaged in articulating their ideas and in developing persuasive arguments; therefore, graduates are well-prepared for careers in many areas. Medical, law, and business schools, in particular, regard English majors as desirable applicants. USM graduates also enter professional and graduate schools, including programs in English, writing, and cultural studies.

Prerequisites and Course Waivers

College Writing or a waiver is a prerequisite for any English language or literature course, including ENG 140. ESL 100 satisfies this requirement for non-native speakers of English. ENG 140 or permission of the instructor is a prerequisite for ENG 245. For English majors, ENG 245 is prerequisite for Capstone Seminars. ENG 201 or instructor permission is a prerequisite for all 300- and 400-level creative writing courses. Certain advanced courses, as indicated in the course listings, and all independent studies require the permission of the instructor.

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 140 may be waived for transfer students with certain literature course credits.

Semester Course Guides

Every semester the Department publishes a course guide that gives more detailed information, including texts and writing requirements, than the undergraduate catalog can accommodate. Students are urged to obtain a copy of the guide in the office of the Department of English or visit our website for a pdf of the latest copy.

Degree in English with Distinction

For a B.A. degree in English with Distinction, a student must achieve a 3.33 GPA or better average in all English courses.

Learning Outcomes

Every major will:
1. produce a substantial body of analytical writing that uses evidence and employs formal standard written English to make a focused argument.
2. read a range of complex cultural texts and exhibit a knowledge of different genres and literary history.
3. use advanced research tools and knowledge of basic literary terms to compile, evaluate, and document appropriate primary and secondary sources for a substantial capstone project.
4. critically examine and synthesize multiple, complex, often contradictory arguments and perspectives.
5. demonstrate knowledge and comprehension of texts and traditions of language and literature written in English as well as their social, cultural, theoretical and historical contexts.

**BA in English**

**Description**

The English degree provides a strong academic foundation for a variety of careers as well as graduate or professional school. Students are introduced to literary research and analysis and the masterworks of ancient and medieval literature before advancing to required courses in writing, theory, and literature, both past and present. English majors are encouraged to study abroad in the third year. All students engage in original research in the senior capstone seminar.

**Program Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the major is 36. No more than 12 credits in 200-level courses may count toward the major.

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. Prior to beginning the English major, students must complete ENG 100 College Writing (or an equivalent writing course) and ENG 140 Reading Literature. After satisfying these prerequisites, students should take ENG 245 Introduction to Literary Studies before concentrating on more advanced work to complete the 36-credit major requirement. No more than six credits of the English major may be used to fulfill requirements for the minor in Writing, the minor in Public and Professional Writing, nor the Certificate in Public and Professional Writing.

**Prerequisites**

Students must take the following courses before beginning study in the English Major. These courses do not count as credit toward the English major.

- ENG 100 College Writing (or an equivalent writing course)
- ENG 140 Reading Literature

**Courses in the Major**

- ENG 245 Introduction to Literary Studies (3 credits). This course is a prerequisite for the Capstone Seminar.
- ENG 220 World Masterpieces I (3 credits)
- At least one 300- or 400-level Theory course (3 credits)
- At least one 300- or 400-level Writing course (3 credits)
- Three 300- or 400-level historical period courses, one of which must be before 1800 (9 credits)
- Capstone Seminar (3 credits) A Capstone seminar is a small class (limited to approximately 15 students) designed to encourage independent thinking, intensive student participation, and in-depth research on topics of the student's choice related to the seminar topic. Typically seminars allow a professor to teach a focused subject of special interest, one on which the professor has done recent research or scholarly writing. Each semester, detailed descriptions of seminars will be published in the English Department's Course Guide. Seminars satisfy the General Education Capstone requirement. Though they may also fulfill requirements under other categories, seminars still count as only 3 credits toward the major requirements.
- Electives (12 credits or as needed to complete 36 credit hours in the major)

**BA in English - Elementary Teacher Education**
Description

This track of the English degree provides prospective K-8 teachers a strong academic foundation in English and a thorough interdisciplinary education in math, science, and history/social studies. The curriculum combines English courses in writing, literature, and literary theory with a sequence of pre-internship education courses and field experiences focusing on the theory and practice of teaching.

Students completing the 120-credit hour degree will have satisfied the USM Core Curriculum and the English Major as well as liberal arts courses required for initial K-8 teacher certification. Graduates are eligible for recommendation for K-8 teacher certification in Maine.

Program Requirements

USM Core Curriculum (including pre-internship education courses):

- EYE 108: Culture, Identity and Education (recommended) (3 cr)
- EDU 100: Exploring Teaching (recommended) (3 cr)
- College Writing-ENG 100 or ENG 101 (3 cr)
- Cultural Interpretation-ENG 140 (3 cr)
- Quantitative-MAT 120 (4 cr)
- Creative Expression (3 cr)
- Socio-Cultural Analysis- HRD/SBS 200: Multicultural Human Development (3 cr)
- Science Exploration (4 cr)
- Ethical Inquiry and Social Responsibility- EDU 310: Purpose of Schooling in a Democracy (recommended) (3 cr)
- Cluster:
  - EDU 305: Foundations of Cultural and Linguistic Diversity
  - SED 335: Students with Exceptionalities in General Education
  - SED 420: Multi-Tiered Systems of Educational Support (9 cr)
- Capstone--English major senior seminar (3 cr)

English Major Course Requirements:

- ENG 245: Introduction to Literary Studies (3 credits). This course is a prerequisite for the Capstone Seminar.
- ENG 220: World Masterpieces I (3 credits)
- At least one 300- or 400-level Theory course (3 credits)
- At least one 300- or 400-level Writing course (3 credits)
- Three 300- or 400-level historical period courses, one of which must be before 1800 (9 credits)
- Capstone Seminar (3 credits) A Capstone seminar is a small class (limited to approximately 15 students) designed to encourage independent thinking, intensive student participation, and in-depth research on topics of the student's choice related to the seminar topic. Typically seminars allow a professor to teach a focused subject of special interest, one on which the professor has done recent research or scholarly writing. Each semester, detailed descriptions of seminars will be published in the English Department's Course Guide. Seminars satisfy the General Education Capstone requirement. Though they may also fulfill requirements under other categories, seminars still count as only 3 credits toward the major requirements.
- Electives (12 credits or as needed to complete 36 hours in the major). Students may count EDU 465 and EDU 466 toward their elective requirements in the track.

Elementary Teacher Education (K-8) Requirements

All requirements for the Elementary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here:

https://cms.usm.maine.edu/teacher-education/elementary-teacher-education

Students who fail to meet any of the academic or professional requirements of this track of the major must withdraw from this track, though they may still complete all requirements for the B.A. in English without recommendation for teacher certification.

BA in English - Secondary Teacher Education
Description

This track of the English degree provides prospective 7-12 teachers a strong academic foundation in English. The curriculum combines English courses in writing, literature, and literary theory with a sequence of pre-internship education courses and field experiences focusing on the theory and practice of teaching.

Students completing the 120-hour degree will have satisfied the USM Core Curriculum and the English Major. Graduates are eligible for recommendation for 7-12 teacher certification in Maine.

Program Requirements

USM Core Curriculum (including pre-internship education courses):

- EYE 108: Culture, Identity and Education (recommended) (3 cr)
- EDU 100: Exploring Teaching (recommended) (3 cr)
- College Writing-ENG 100 or ENG 101 (3 cr)
- Cultural Interpretation-ENG 140 (3 cr)
- Quantitative Reasoning-MAT 120 (4 cr)
- Creative Expression (3 cr)
- Socio-Cultural Analysis-HRD/SBS 200: Multicultural Human Development (3 cr)
- Science Exploration (4 cr)
- Ethical Inquiry and Social Responsibility-EDU 310: Purpose of Schooling in a Democracy (3 cr)
- Cluster:
  - EDU 305: Foundations of Cultural and Linguistic Diversity (3 cr)
  - SED 335: Students with Exceptionalities in General Education (3 cr)
  - SED 420: Multi-Tiered Systems of Educational Support (3 cr)
- Capstone–English major senior seminar (3 cr)

English Major Course Requirements:

- ENG 245: Introduction to Literary Studies (3 credits). This course is a prerequisite for the Capstone Seminar.
- ENG 220: World Masterpieces I (3 credits)
- At least one 300- or 400-level Theory course (3 credits)
- At least one 300- or 400-level Writing course (3 credits)
- Three 300- or 400-level historical period courses, one of which must be before 1800 (9 credits)
- Capstone Seminar (3 credits) A Capstone seminar is a small class (limited to approximately 15 students) designed to encourage independent thinking, intensive student participation, and in-depth research on topics of the student's choice related to the seminar topic. Typically seminars allow a professor to teach a focused subject of special interest, one on which the professor has done recent research or scholarly writing. Each semester, detailed descriptions of seminars will be published in the English Department's Course Guide. Seminars satisfy the General Education Capstone requirement. Though they may also fulfill requirements under other categories, seminars still count as only 3 credits toward the major requirements.
- Electives (12 credits or as needed to complete 36 hours in the major).

Secondary Teacher Education (7-12) Requirements

All requirements for the Secondary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here:

https://cms.usm.maine.edu/teacher-education/secondary-teacher-education

Students who fail to meet any of the academic or professional requirements of this track of the major must withdraw from this track, though they may still complete all requirements for the B.A. in English without recommendation for teacher certification.

Certificate in Public and Professional Writing
Description

The undergraduate certificate in public and professional writing prepares students to become competent and confident writers in a wide range of fields, such as business, sports management, health sciences, engineering, technology, legal practice and jurisprudence, print and broadcast journalism, academic and trade publishing, and technical and grant writing. Through this program's interdisciplinary curriculum, internships, and guest lecture series, students develop the speaking, writing, and social media skills to communicate effectively and responsibly in diverse public and professional environments. The two foundation courses give students valuable training in grammar, syntax, and style and introduce some of the range of forms and contexts for professional writing, while advanced electives offer more specialized training in specific fields. By providing valuable practice in speaking and writing in business and non-profit sectors, this program significantly expands their career and vocational opportunities.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for the Public and Professional Writing certificate: 9 credit hours.

- ENG 204 Professional Writing (3 credit hours)
- ENG 205 Sentence Style (3 credit hours)
- One 200- to 400-level professional writing elective (3 credit hours) See English Department Course Guide for offerings. usm.maine.edu/eng

Minor in English

Description

The Department offers a minor in English that requires 18 credits of upper-level courses in a program planned with an English faculty advisor and approved by the English Department Director of Advising. The goal of the minor is to give students not simply a collection of courses, but a coherent experience with English courses chosen to suit their needs and interests.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for the English minor: 18. No more than a total of 6 credit hours can be earned at the 200-level.

Each English minor program must meet the following specific requirements beyond College Writing or waivers:

- ENG 245 (3 credits)
- Three 300- or 400-level historical period courses (one must focus on a period before 1800 and one on a period after 1800) (9 credits)
- Electives to complete the 18 credits required for the minor

Further information about the English minor is available from the English Department.

Minor in Public and Professional Writing

Description

The minor in public and professional writing prepares students to become competent and confident writers in a wide range of fields, such as business, sports management, health sciences, engineering, technology, legal practice and jurisprudence, print and broadcast journalism, academic and trade publishing, and technical and grant writing. Through this program's interdisciplinary curriculum, internships, and guest lecture series, students develop the speaking, writing, and social media skills to communicate effectively and responsibly in diverse public and professional environments. The two foundation courses give students valuable training in grammar, syntax, and style and introduce some of the range of forms and contexts for professional writing, while advanced electives offer more specialized training in specific fields. By providing valuable practice
for speaking and writing in business and non-profit sectors, this program significantly expands their career and vocational opportunities.

**Program Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the Public and Professional minor: 15 credit hours.

No more than six credits from the minor or certificate in Public and Professional Writing can be used to fulfill the requirements for the English major.

- ENG 204 Professional Writing (3 credits)
- ENG 205 Sentence Style (3 credits)
- Three 200-400-level professional writing electives (9 credits) See English Department Course Guide for offerings. [usm.maine.edu/eng](http://usm.maine.edu/eng)

**Minor in Writing**

**Description**

The English Department offers a minor in writing for both English majors and non-majors. The minor consists of tracks in poetry, fiction, non-fiction, and journalism. The goal of the writing minor is to direct student attention to writing offerings while recommending a productive sequence of writing courses and collateral craft-oriented textual studies courses.

**Program Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the writing minor: 19.

Students enter the writing minor by meeting with the Department's coordinator of advising. Candidates must be eligible for pre-registration and/or admission to upper-level workshops and should have completed six hours of 200- or 300-level writing classes. Students who are writing minors or English majors will have priority for registration in writing classes.

No more than six credits from the minor in Writing can be used to fulfill the requirements for the English major.

Each writing minor program must meet the following specific requirements beyond College Writing and ENG 140 or waivers:

- ENG 201 Creative Writing (3 credit hours)
- One of the following: ENG 244, 245, 262, 263 or 264 (3 credit hours)
- One of the following courses (3 credit hours)
  - Memoir and Autobiography (ENG 202)
  - Fiction Writing (ENG 300)
  - Poetry Writing (ENG 301)
  - Rhetoric, Syntax, and Style (ENG 305)
  - Newswriting (ENG 309)
- Workshops (6 credit hours)*
  - Fiction Workshop (ENG 302)
  - Poetry Workshop (ENG 303)
  - Advanced Memoir (ENG 304)
  - Writing the Novel (ENG 306)
  - *Workshops may be repeated for credit.
- Elective courses (3 credit hours)
  - Selected from English Department offerings. Courses selected must be 300- or 400-level.
- Thesis (1 credit hour)
  - The minor requires a thesis comparable to an M.F.A. application portfolio. Before enrolling in Thesis for the Writing Minor (ENG 401), students must get permission from a thesis advisor with whom they wish to work. During the course, students will produce ten to fifteen poems or twenty-five to fifty pages of fiction or nonfiction. The thesis may be completed in the second upper-level workshop.
- Optional Internship (3 credit hours)
  - Internships provide students the opportunity to earn course credit through professional experience in writing or editing for an organization, primarily in journalism or the arts. The English Department currently offers the Internship in Professional Writing (ENG 409).
Further information about the writing minor is available from the English Department.

English Course Descriptions

English Courses

- Introductory Courses
- Criticism and Theory Courses
- Writing Courses
- Historical Period Courses Before 1800
- Historical Period Courses After 1800
- Elective Courses
- Internships
- Experimental Courses

Introductory Courses (back to English Courses)

ENG 100 College Writing

With an emphasis on the connections between reading and writing, English 100 introduces students to practices and conventions of expository academic writing. Students read expository writing and use the ideas they encounter to develop and refine their own arguments and perspectives. Students learn how thinking and writing change through processes of reading, drafting, rereading, revision, editing, and proofreading. At the end of the semester, ENG 100 students can demonstrate an understanding of sentence structure and syntax as central to meaning. Using standard written English, students can compose essays that reflect a point of view, engage with readings, and focus on a central thesis or project. Prerequisite: college readiness in writing. Every semester. Cr 3.

The following courses are considered equivalents meeting the same outcomes as College Writing and will not be allowed for additional credit, but instead will follow the USM Repeat Policy and count as a repeat of the previous grade: ENG 100, ENG 101, ENG 104, ESL 100, HON 100, LCC 110, LCC 111, RSP 100 and RSP 104.

ESL 100 College Writing

This section of College Writing (ENG 100) is intended for non-native speakers of English only. This course focuses on the analysis of professional and student writing in terms of how to use the English language effectively 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 104 or college readiness in writing. Every semester. Cr 3.

The following courses are considered equivalents meeting the same outcomes as College Writing and will not be allowed for additional credit, but instead will follow the USM Repeat Policy and count as a repeat of the previous grade: ENG 100, ENG 101, ENG 104, ESL 100, HON 100, LCC 110, LCC 111, RSP 100 and RSP 104.

ENG 101 Independent Writing

This course is offered as an alternative college writing course for students who prefer to work independently on academic writing with an instructor's guidance. The main business of the course is conducted in individual conferences; therefore, the course is more intensive than ENG 100. This course emphasizes style, sentence structure, organization, and development. The major challenge of the course is the self-discipline that students will need to work independently. Prerequisite: college readiness in writing. This course fulfills the college writing requirement. Every semester. Cr 3.

The following courses are considered equivalents meeting the same outcomes as College Writing and will not be allowed for additional credit, but instead will follow the USM Repeat Policy and count as a repeat of the previous grade: ENG 100, ENG 101, ENG 104, ESL 100, HON 100, LCC 110, LCC 111, RSP 100 and RSP 104.

ENG 103 A Modular Approach to the Writing Process

This course for college writers in various disciplines is divided into three units or modules, each of which earns one credit hour. Each unit runs for approximately one-third of a semester. Students may enroll in one, two, or all three modules and receive separate grades for each module they complete. The second and third units do not require the earlier unit(s) as prerequisites. Any or all of the units may be taken in conjunction with ENG 100 College Writing. The first unit, "Practical and Descriptive Grammar for College Writers," gives students a thorough knowledge of traditional "prescriptive" grammar and introduces them to modern "descriptive" grammar. The second unit, "Editing, Revising, and Rewriting," focuses on skills in proofreading, editing, revising, and rewriting, and also covers the use of computer programs for writing assistance. The third unit, "Research Skills Across the Disciplines," studies the use of library resources (especially online and other computer databases), documentation and bibliography formats from a range of disciplines, and other techniques crucial to writing analytic research papers. Variable cycle. Credit variable.

ENG 140 Reading Literature

This course is an introduction to the premises and techniques of literary analysis. The course emphasizes the close reading of texts from different
historical periods and introduces students to literary conventions and terminology as well as library and Internet resources available for research. In this course, students will learn to use concepts of the discipline and conventions of academic discourse with an emphasis on critical writing. Every semester. Cr 3.

ENG 145 Topics in Literature
This course emphasizes oral and written analysis and interpretation of literary and other cultural texts within and across historical contexts. Though topics vary, each provides a broad introduction to the concepts of literary history and periodization as these are understood within the discipline and familiarizes students with the basic terms and methods of literary analysis. May be repeated for credit when topics vary. Every semester. Cr 3.

ENG 220 World Masterpieces I
This course is a study of the major works of Western and non-Western literature from the classical, medieval, and early modern eras. Readings may include *The Epic of Gilgamesh*, *The Odyssey*, *The Canterbury Tales*, and selections from the Bible and the Qur'an. Prerequisites: College Writing or equivalent. Every semester. 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. Every semester. Cr 3.

Criticism and Theory Courses (back to English Courses)

ENG 340 History of Literary Criticism and Theory
This course is an historical study of the key critics and theorists from Plato and Aristotle to the present day. Every year, fall. Cr 3.

ENG 341 Contemporary Critical Theories
This course is 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 semester. Cr 3.

ENG 342 Topics in Contemporary Theory
This course studies in-depth selected theoretical approaches to literature and culture. 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). It may be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Every semester. Cr 3.

ENG 344 Sex/Gender and Sexuality
This course will investigate sex/gender and sexuality as analytic categories for understanding culture. Through a consideration of both history and theory, the course will explore different models for understanding sex/gender and sexuality, including their interaction with other categories of difference such as race and class. It will also explore the effect of these models on our understanding of literature, mass culture, theories of identity, and contemporary social life. Every spring. Cr 3.

ENG 345 Racial Formations
Guided by the concept of "racial formations," this course will foreground the definition of "race." It will ask questions about whether race is a biological or discursive category, about the relationship between race and identity, and about how racial identity is informed by class, gender, sexuality, and other socio-historical "formations." Course materials may include literature, film, criticism and theory, scientific and historical readings, and popular culture texts such as television, video, and music. Variable cycle. Cr 3.

ENG 440 Independent Study in Literary Criticism and Theory
By instructor's permission. See Department for application form. Cr var.

ENG 441 Seminar in Literary Criticism and Theory
This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisite: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

Writing Courses (back to English Courses)
ENG 300 Fiction Writing
This is a course for those who, in a creative writing course or on their own, have 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. Prerequisite: ENG 201. Every fall. Cr 3.

ENG 301 Poetry Writing
This is a course for those who, in a creative writing course or on their own, have developed basic skills of reading and revising poetry, 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, exercises that stress the elements of poetry, and the development of personal approaches. Prerequisite: ENG 201. Every fall. Cr 3.

ENG 302 Fiction Workshop
This is an advanced course requiring the completion of at least two short stories or a substantial part of a novel. Prerequisites: ENG 300 or instructor's permission. May be repeated for three additional credits with instructor's permission. Variable cycle. Cr 3.

ENG 303 Poetry Workshop
This is 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 301 or instructor's permission. May be repeated for three additional credits with instructor's permission. Variable cycle. Cr 3.

ENG 304 Advanced Memoir
This course offers orientation and practice in the fundamentals of narrative autobiographical writing. We focus on the use of memory—key scenes, remembered characters, and evocative seasons of life—as source material for the writing of personal essays and autobiographical stories. We work with prose narrative material only (prose material that tells a story, as opposed to analytical essays or expository articles), and the boundaries between fact and invention in this course will necessarily sometimes blur. Readings will be drawn from the works of contemporary writers prominent in the field, from period journals and diaries, and from texts on memoir as a literary genre. May be repeated for three additional credits with instructor's permission. Prerequisite: ENG 202 or permission. Variable cycle. Cr 3.

ENG 305 Rhetoric, Syntax, and Style
This course focuses on the fundamentals of sentence-level writing, teaching students the possibilities of English style both for their own prose and for textual analysis. By examining contemporary texts in the context of traditions of rhetoric, students will develop a theoretical grasp of rhetoric, syntax, and style as a basis for editing and revision. Cr 3.

ENG 306 Writing the Novel
This course offers instruction in the preliminary stages of writing a novel, including the uses of synopsis outlines, building well-developed scenes, and experimenting with style, narrative voice, and point of view. Work in class will involve lectures on craft, the critique of student work, and discussions of published texts. Using an expanding synopsis outline, students will produce 50 pages of revised work. Prerequisites: ENG 302 preferred; permission of instructor. May be repeated for three additional credits with instructor's permission. Variable cycle. Cr 3.

ENG 309 Newswriting
This course covers the basics of news-story writing for the print media with intensive practice in news gathering, background research, interviewing, covering a beat, covering social and political issues, and consideration of ethical and legal issues related to American journalism. Cr 3.

ENG 400 Independent Study in Creative or Expository Writing
By instructor's permission. See Department for application form. Cr var.

ENG 401 Writing Minor Thesis
The student, working in collaboration with a faculty advisor, produces a thesis of 10-15 poems or 25-50 pages of fiction or non-fiction. The thesis may be multi-genre, by the student's choice. Prerequisites: ENG 302, 303, 304, or 306. Cr 1.

ENG 409 Internship in Professional Writing
By application to the Department and arrangement with campus or local newspaper or journal. Prerequisite: ENG 309 or 310, or permission of the Department. Every semester. Cr var.

ENG 410 Independent Study in Journalism
By instructor's permission. See Department for application form. Cr var.

ENG 411 Seminar in Journalism
This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisite: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.
ENG 315 Ancient Literature
This course will vary between being focused on Greek and Roman literature and on literatures outside the Mediterranean/Aegean ancient world. Variable cycle. 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 selected books that have had the greatest literary influence, including Genesis, Exodus, Psalms, Job, and the Gospels. The course may also discuss the history of the texts, problems of translation, and/or influence. Variable cycle. Cr 3.

ENG 317 Studies in Ancient and Biblical Literature and Culture
Some topics studied in this course take a comparative approach to ancient and biblical literatures, including that of the Graeco-Roman civilization, but are not limited to classical texts. Other topics take a more narrow approach and may involve combined studies of ancient and/or biblical literature and the culture of a later period. Possible topics include "The Late Classical Era through Christian Antiquity," "The Bible and Early Western Literatures and Cultures," "Women Writers of Antiquity," and "Images of Women in Ancient Literature." May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 320 Continental Literature
This course examines readings in major works from the Middle Ages through the sixteenth century. Texts typically include some or all of the following: Augustine's Confessions, Boccaccio's Decameron, Petrarch's Sonnets, Dante's Divine Comedy, Machiavelli's The Prince, Marguerite de Navarre's Heptameron, Montaigne's Essays. All texts are read in modern translations. Variable cycle. Cr 3.

ENG 325 Epic and Romance
This course will focus on the emergence and development of Epic and Romance. Possible topics include "the Epic," "Arthurian Romance," and "Medieval Epic and Romance." The course may be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Variable cycle. Cr 3.

ENG 350 Medieval English Literature
This course is a survey of genres popular from the twelfth to the fifteenth centuries (including debates, lyrics, romances, allegories, drama), with emphasis on literature of fourteenth-century England. Major readings will typically include Chaucer's Troilus, The Pearl, and Sir Gawain and the Green Knight. Variable cycle. Cr 3.

ENG 351 Chaucer and the Medieval World
This course is an exploration of Chaucer's historical, philosophical, and literary world through his major comic narrative, Canterbury Tales. Variable cycle. Cr 3.

ENG 352 Medieval Drama
This course will introduce the theater of the medieval world, which ranges from the liturgical, ritual drama of the church, to the morality plays—performed by traveling companies—and the mystery cycles in the fifteenth century. Tudor plays of the early sixteenth century may also be read. Attention will be paid to the aesthetic and theological principles underlying the conjunction of farce and high seriousness in the plays, as well as to distinctly medieval techniques of staging and production. Variable cycle. Cr 3.

ENG 353 Medieval Women Writers
This course focuses on women writing in various discursive milieux during the long period between the third and the sixteenth centuries. Writers include literate nuns, female courtly love lyricists, laywomen mystics, the first professional woman writer Christine de Pizan, and women dramatists. Non-English texts will be read in modern translation. Variable cycle. Cr 3.

ENG 354 Studies in Medieval Literature and Culture
This course explores literature and culture ranging from the fifth and sixth centuries through the late fifteenth century. Some topics that may recur include Anglo-Latin and Anglo-French literature and scholarship; feminist studies of medieval culture; and allegory, symbol, and sign. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 355 English Renaissance Literature and Culture
This course is a survey of major genres and writers of the English Renaissance. The course is concerned with the historical context of the production and reception of Renaissance texts. Emphasis is on how sixteenth and seventeenth century innovations in formal techniques are related to cultural and institutional change. Typical writers will include More, Spenser, Marlowe, Wroth, Sidney, Shakespeare, Lanier, Donne, and Milton. Topics and issues covered include gender and the erotic, humanism and power, religion, imperialism, social hierarchy, and notions of selfhood. Every fall. Cr 3.

ENG 357 Elizabethan and Jacobean Drama
This course is a study of selected plays from the English Renaissance. The course may focus on a particular theme, genre, sociopolitical issue, or author. Typical topics include theater and the state, unruly women, magic and witchcraft, the construction of the "other," and rebellion.
Playwrights typically included are Kyd, Marlowe, Dekker, Webster, Middleton, and Jonson. Variable cycle. Cr 3.

ENG 360, 361 Shakespeare
ENG 360 and 361 each feature close reading of five to seven of Shakespeare's plays, and focus attention both on theatrical and philosophical meanings. Both courses include tragedies and comedies; neither is introductory nor prerequisite to the other. ENG 360 often includes a section on Shakespeare's history plays, while ENG 361 includes a section on Shakespeare's "romances." Every semester. Cr 3.

ENG 362 Studies in Shakespeare
This is an advanced course in Shakespeare that emphasizes the application of various critical and scholarly approaches to important aspects of the poet and dramatist's work. Typical subjects include allegorical elements in Shakespeare's plays; Shakespeare and the daemonic; Shakespeare and computers; Shakespeare and popular culture; Shakespeare, theater, and the state; Shakespeare's sources; Shakespeare, gender, and sexuality. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 363 Studies in the Renaissance
This course examines selected topics and writers from the sixteenth and seventeenth centuries. The course may focus on an author, genre, historical moment, socio-historical problem, or discursive practice. Typical topics include popular culture, the "New Science," pastoral and politics, literature of "New World" exploration and colonization, the market, or the English Civil War. Courses will typically study the relation of diverse practices of writing or generic conventions to the social and political order of Renaissance England. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 365 Restoration and Eighteenth-Century Literature and Culture
Focusing mostly upon representative or canonical texts, this is a multi-generic course intended to provide an overview of British literature and culture in the "long" eighteenth century, 1660-1800. Readings will be organized around several of the following cultural and historical issues: political and religious controversies; the role of science and experimentation; the creation of the literary professional; women and the domestic sphere; the growth of the British Empire. Variable cycle. Cr 3.

ENG 366 Studies in the Restoration and Eighteenth Century
More specialized than ENG 365, this course offers the opportunity for intensive focus upon a single genre, author, issue, or historical moment to be determined by the instructor. Typical topics include satire and the politics of "wit," the cult of sensibility, theater and anti-theatricality, the eighteenth-century long poem, and seduction and the scandalous memoir. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 367 Literature and Culture of the Early Republic
Focusing upon representative early American texts, this course considers questions of revolution, the transition from colonialism, emergent nationalism, and constructions of citizenship within the context of the American War for Independence and the ensuing years of the Early Republic. Variable cycle. Cr 3.

ENG 368 Studies in Eighteenth-Century American Literature and Culture
More specialized than ENG 367, this course offers the opportunity for intensive focus upon a single genre, author, issue, or historical moment, to be determined by the instructor. Typical topics include science in/and the New World, American nationalism, the rise of slavery in the colonies, witchcraft and public order, the French Revolution in America, The Great Awakening and women's public life, and colonial autobiography. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 369 Emergence of the Novel
This course explores the emergence of the novel as a new literary mode, one both dependent upon and distinguishable from the kinds of prose narrative that are usually described as its origins: journalism, scandalous memoirs, Puritan autobiographies, conduct books, etc. Variable cycle. Cr 3.

ENG 370 Literature of Discovery, Exploration, and Colonialism
Focusing upon literatures of the Atlantic, this course examines literary, historical, and discursive connections between European, Creole, and indigenous cultures in the early period of European expansion. Topics to be explored include the commercial, religious, and scientific origins of European exploration, "New World" representations, and the social organization of colonialism. Students should consult the Department's Course Guide for specific descriptions. Variable cycle. Cr 3.

ENG 379 Earlier Women Writers
This course focuses upon the efforts of women writers in the early modern period to create, negotiate, and contest the terms of a developing literary culture. Instructors will attend to the successes and limitations of gender as a category of analysis. Students should consult the Department's Course Guide for detailed descriptions. Variable cycle. Cr 3.

ENG 415 Independent Study in Ancient and Biblical Literature and Culture
By instructor's permission. See Department for application form. Cr var.

ENG 450 Independent Study in Medieval Studies
By instructor's permission. See Department for application form. Cr var.

**ENG 451 Seminar in Medieval Studies**

This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisites: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

**ENG 455 Independent Study in the Renaissance**

By instructor's permission. See Department for application form. Cr var.

**ENG 456 Seminar in the Renaissance**

This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisites: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

**ENG 457 Independent Study in the Eighteenth Century**

By instructor's permission. See Department for application form. Cr var.

**ENG 458 Seminar in the Eighteenth Century**

This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisites: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

**Historical Period Courses After 1800**

**ENG 321 Modernisms**

This course will focus on some aspect or aspects of American, British, Continental, and international literary modernisms. Students should expect to explore writing from the first half of the twentieth century and to investigate issues of literary innovation, modernity and historical change, self-understandings as "modern," competing literary versions of modernism, and theoretical/historical versions of modernism. Variable 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 such as Rilke, Stein, Barthes, and H. D. with more traditional forms of autobiography, the course investigates the historical vicissitudes in the conceptualization of a "self." Variable cycle. Cr 3.

**ENG 323 Studies in Canadian Literature and Culture**

This course offers students an in-depth study of specific regional, cultural, or political developments in Canadian literature and film. Students may investigate the works of ethnic minorities, women, or particular authors. They may also focus on formative historical periods in the social development of Canada and the literature these periods have inspired (e.g. Quebec literature, literature of the Great Depression). May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

**ENG 324 Studies in International Literature Since 1900**

Literature since 1900 has become increasingly international especially because of expanded availability of translated texts. This course explores topics in literature that are international in scope whether through specific influences or in response to historical, philosophical, political, and aesthetic developments. Although the range and focus of the course will vary, topics will include studies in Commonwealth and European literatures as well as literatures of specific regions such as Africa, the Caribbean, and/or South America. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

**ENG 325 Modern Short Story: Themes and Methods**

This course is a detailed consideration of from six to ten short story collections reflecting contemporary themes and narrative methods. Although selections will vary, readings may include Jorge Luis Borges, Franz Kafka, Anton Chekhov, James Joyce, Thomas Mann, Virginia Woolf, Isaac Babel, Grace Paley, Flannery O'Connor, Katherine Anne Porter, and Zora Neale Hurston. 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. Variable cycle. Cr 3.

**ENG 326 Modern Novel: Themes and Methods**

This course explores 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 may include Knut Hamsun, Franz Kafka, Thomas Mann, Herman Hesse, Andre Malraux, D. H. Lawrence, James Joyce, Christina Stead, Virginia Woolf, Rebecca West, and Djuna Barnes. Variable cycle. Cr 3.

**ENG 327 Modern Drama**

This course is a detailed consideration of from six to ten short story collections reflecting contemporary themes and narrative methods. Although selections will vary, readings may include Jorge Luis Borges, Franz Kafka, Anton Chekhov, James Joyce, Thomas Mann, Virginia Woolf, Isaac Babel, Grace Paley, Flannery O'Connor, Katherine Anne Porter, and Zora Neale Hurston. 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. Variable cycle. Cr 3.
This course is 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, Pinter, Fornes, Churchill, and Norman. The course will emphasize the experience of drama as much as possible by viewing video productions of several plays. Variable cycle. Cr 3.

ENG 346 Language, Literature and the Politics of Identity in Contemporary Ireland
This course is an examination of the relations among literature, language and the politics of identity in Ireland today. Readings will include political, historical, and cultural materials from various communities of discourse competing to shape Irish identity for the twenty-first century, including traditional republicanism and unionism, new nationalism, historical revisionism, feminism, and consumer capitalism. Variable cycle. Cr 3.

ENG 371 Romantic Writing
This course is a study of major British poets of the Romantic period (1790-1832). Readings will be selected from among the works of William Blake, Helen Maria Williams, Ann Yearsley, Hannah More, William Wordsworth, S.T. Coleridge, John Clare, John Keats, Byron, and Percy Shelley. Variable cycle. Cr 3.

ENG 373 Studies in Romantic Literature and Culture
This course will explore themes and issues unique to the Romantic Period. Although the content of the course will vary, it will generally 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. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 375 Nineteenth-Century British Novel
This course is a study of the canonical novels produced during the nineteenth century, including texts by the Brontes, Dickens, Thackeray, George Eliot, and Hardy. The course will examine narrative forms, narrators, audience, plots and stories; cultural forms such as the literary pen name; the material production of books, serials, and newspaper stories; the cultural predominance of fiction during the period; the cultural production of subjectivity and readership; and the uses and readings of history in fiction. Variable cycle. Cr 3.

ENG 376 Victorian Literature and Culture
This course explores Victorian writing, including poetry, novels, plays, autobiography, and non-fiction by writers such as the Brontes, the Brownings, Carlyle, Dickens, George Eliot, Elizabeth Gaskell, George Gissing, Thomas Hardy, Hopkins, John Stuart Mill, the Rossettis and the pre-Raphaelites, Ruskin, Pater, Tennyson, Wilde. Readings will be organized around several of the following Victorian intellectual, ideological, and cultural issues: the relation of Victorianism to neo-classicism, Romanticism, and modernism; the situation of women; theories of gender and sexuality; industrialism; materialism; aestheticism; decadence; scientific and religious controversies; the emergence of psychoanalysis. Variable cycle. Cr 3.

ENG 377 Studies in Nineteenth-Century British Literature and Culture
This course explores various topics, including fin de siècle literature and culture; nineteenth-century intellectual history and culture (e.g., Wollstonecraft, John Stuart Mill, Darwin, Marx, Nietzsche, Freud); Victorian poetry and the visual arts; nineteenth-century psychology and culture; contemporary film appropriations of Victorian fiction. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. 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. This course investigates the changes the idea of Bildung underwent at the hands of various authors in the nineteenth and early twentieth 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 may include Goethe's Wilhelm Meister's Apprenticeship, Bronte's Jane Eyre, Dickens' David Copperfield, Joyce's Portrait of the Artist as a Young Man. Variable cycle. Cr 3.

ENG 380 Early Nineteenth-Century American Literature and Culture
This course examines the literature and culture of the United States to the Civil War. While particular writers, works, and theoretical emphases may vary with the instructor, the course will consider historical context and may include canonical and non-canonical texts in a variety of literary and cultural forms: long and short fiction, poetry and song, non-fiction essays, slave narratives, political pamphlets and journalism, and paintings. Possible topics include the growth of female authorship; social reform movements; and the formation and interpretation of the American literary canon. Variable cycle. Cr 3.

ENG 382 The Earlier American Novel
This course explores the American novel to 1900 with attention to historical context, generic development, and thematic connections between texts. The course may include various types of novels, such as epistolary, gothic, romance, domestic, and realist, as well as canonical and non-canonical writers. Variable cycle. Cr 3.

ENG 383 Studies in African-American Literature and Culture
This course will explore various topics in African-American literature and culture. Specific courses may focus on literary traditions, genres, and themes; literary and cultural periods or movements; theoretical issues in the development or study of African-American literature; or the work of
a single author. Possible topics include the slave narrative, African-American non-fiction prose, the Harlem Renaissance, the Black Arts Movement, African-American women's writing, African-American literary and cultural theory, Black popular culture. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for specific descriptions. Every year. Cr 3.

**ENG 384 Late Nineteenth-Century American Literature and Culture**

This course covers the historical period associated with the rise of realism and naturalism in American literature that is traditionally marked by the end of the Civil War and the beginning of World War I. While the course's focus may vary, it will explore the definitions of realism and naturalism with regard to both historical context and aesthetic agendas. In testing definitions of American realism and naturalism, the course may ask questions about whose reality, whose America, and whose intellectual and cultural traditions have shaped our understanding of the literary movements that arose in response to major changes in American society during the late nineteenth and early twentieth centuries. Variable cycle. Cr 3.

**ENG 385 Studies in Nineteenth-Century American Literature and Culture**

This course examines specific themes, works, or writers prominent in nineteenth-century American literature and culture. The course may focus on a particular literary tradition, genre, or theme; a literary and cultural movement; a theoretical issue in the development or study of nineteenth-century American literature; or the work of a single author. Possible topics include slavery and abolition in American literature, nineteenth-century popular culture, the domestic novel, American Renaissance, and Whitman and Dickinson. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

**ENG 387 Women Writers Since 1900**

This course introduces students to the diverse concerns of modern and contemporary women writers. It could be organized around a thematic, theoretical, or historical question or could be devoted to two or three figures. It may include writers from First and Third world countries, immigrant writers, and writers of the African Diaspora. Every year, spring. Cr 3.

**ENG 390 British Poetry Since 1900**

This course will focus on poetry written in Britain since 1900, with emphases on such questions as the development of modernism, poetic forms and strategies, links to political and cultural developments, and new forms and strategies after modernism. The course will usually focus on three or four specific poets read against a broader poetic and historical context. Poets may include T. S. Eliot, Hugh MacDiarmid, D. H. Lawrence, Stevie Smith, Liz Lochhead, Maeve McGuckian, or writers associated with the "New British Poetries." Variable cycle. Cr 3.

**ENG 391 American Poetry Since 1900**

This course will focus on American poetry written since 1900. While primary texts and historical or theoretical emphases will vary with the semester, the course will consider poetic forms and strategies, and relations to literary modernism and to American thematics and traditions. In most semesters, the course will focus on three or four major poets, examining their poetry against a broader poetic and historical context. Variable cycle. Cr 3.

**ENG 392 British Novel Since 1900**

This course will focus primarily on novels written with reference to the British literary tradition of the twentieth century, exhibiting the stylistic and thematic concerns associated with literary impressionism, and early and late modernism, by such writers as Joseph Conrad, Ford Madox Ford, Jean Rhys, Virginia Woolf, James Joyce, Samuel Beckett, Christina Stead, William Trevor, Jessie Kesson, and Lewis Grassic-Gibbon. Variable cycle. Cr 3.

**ENG 393 The American Novel Since 1900**

This course will study various types of novels, such as the realist novel, the social protest novel, the modernist novel, the Gothic novel, and the autobiographical novel, with attention to social and historical contexts and to thematic connections between texts. It is not purely a survey of "Great American Novels" but may include both canonical and non-canonical writers. Variable cycle. Cr 3.

**ENG 394 Studies in American Literature and Culture Since 1900**

This course will be organized around different literary periods, geographical regions, fields of study, and intellectual and cultural movements. Possible topics include the Harlem Renaissance, literature and the Left, literature of new social movements (Black power, feminism, lesbian and gay rights), youth cultures, the Vietnam era, immigrant writers, American Indian writers, southern writers, Caribbean writers in the USA, and Maine writers. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

**ENG 395 Irish Literature and Culture**

Irish literature in English and Irish culture will be studied in relation to three phases in the political and cultural development of Ireland as a nation: 1) the period of Irish nationalism prior to independence in 1922; 2) the formative years of nation building and its myth-making from independence to 1960; 3) 1960 to the present. Variable cycle. Cr 3.

**ENG 396 James Joyce**

This course is an examination of Joyce's major texts, including *Dubliners*, *A Portrait of the Artist as a Young Man*, *Ulysses*, and selections from *Finnegans Wake*. Emphasis will be on *Ulysses*. The course also will include relevant biographical, critical and contextual material. Variable cycle. Cr 3.
ENG 397 Studies in Irish Literature and Culture
This course explores topics in Irish literature and culture, often set in the context of Irish history and politics. Sample topics include: Irish drama, Irish film, Yeats and Joyce, Joyce and Beckett, and women and Irish culture. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 398 Studies in British Literature and Culture Since 1900
This course will focus on the interrelated literatures of Britain's distinctive cultures in England, Scotland, Wales and Northern Ireland. It will be organized around different literary periods, cultures, theoretical and historical emphases and social movements. Possible topics include British modernism, the Scottish Renaissance, race and writing in Britain, writing and nationalism. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 475 Independent Study in the Nineteenth Century
By instructor's permission. See Department for application form. Credit variable.

ENG 476 Seminar in Nineteenth-Century Studies
This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisites: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

ENG 490 Independent Study in Literature Since 1900
By instructor's permission. See Department for application form. Credit variable.

ENG 491 Seminar in Literature Since 1900
This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisite: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

Elective Courses (back to English Courses)

ENG 201 Creative Writing
This course is an introduction to the principles and practices of writing fiction and poetry; other genres may be added at the discretion of the instructor. Students will be exposed to a variety of writing modes through exercises and engagement with literary texts. Emphasis is on using imaginative and precise language, on developing critical skills through workshops, and on assembling a portfolio of revised student writing. Prerequisites: College writing or equivalent. Every semester. Every semester. Cr 3.

ENG 202 Memoir and Autobiography
This course offers orientation in the technique of narrative autobiographical writing. Using journal writing, observational writing, and free writing techniques, students will learn to access story material from memory and develop a personal writing practice. They will be assigned readings in memoir and autobiography, and will assemble a portfolio of essays and personal writings. Every fall. Cr 3.

ENG 203 Topics in Writing
This is a course for prospective writers interested in studying the stories, novels, poems, biographies, memoirs, and letters of established writers, with an eye to learning aspects of craft, technique, and the creative process from a close and focused inspection of key facets of their works and lives. Areas of study will vary from semester to semester, but will include close textual reading and practice in both creative and expository writing. Every spring. Cr 3.

ENG 204 Professional Writing
This course introduces students to public and professional writing and communication and provides practice in its different forms, such as business writing, grant writing, public relations, interviews, blogs, and speeches. Prerequisite: College Writing or equivalent. Every semester. Cr 3.

ENG 205 Sentence Style
This course develops students' knowledge of sentence parts, patterns, and effects. Through writing and revision, students will explore the relation between sound, structure, context, genre, and meaning. Course readings in rhetoric, linguistics, and poetics will provide terminology and conceptual background. Students will also seek out samples of literary, academic, and professional texts to identify the sentence conventions and patterns used in particular contexts. Prerequisite: College Writing or equivalent. Every semester. Cr 3.

ENG 244 Introduction to Cultural Studies
This course introduces students to the history, concepts, and methods of cultural studies. Students will read a variety of critical texts from a number of different theoretical perspectives, including semiotics, Marxian theory, psychoanalytic theory, gender studies, and cultural anthropology, and will also read selected texts from specific areas of cultural analysis, such as television studies or film theory. The course examines specific aspects of past or present popular cultures. Every semester. Cr 3.
ENG 262 Poetry
This course studies poetry as a way of knowing and experiencing the world, introduces important concepts in analyzing and appreciating poetry, and offers the opportunity for students to develop skills in interpretation, literary analysis, and discussion. While primary attention will be on poetic forms, figurative languages and the poetic "canon," it will also consider the relationship between historical context and changes in poetic form in various periods. Every fall. Cr 3.

ENG 263 Fiction
This course will introduce important concepts in analyzing fiction and enable students to develop skills in interpretation, literary analysis, and discussion. It will focus on narrative forms and rhetorical structures (such as voice, plot, diction, figurative language) in various historical periods, and will both examine and challenge the concept of genre. Every semester. Cr 3.

ENG 264 Performance Genres
This course will study dramatic performance from its roots in cultural ritual to its historical development in drama as well as its more contemporary manifestations in television and film. Students will investigate the social functions of performance in several cultures and epochs, focusing on conventions of language and stagecraft, dramatic experimentation, and technical innovation. Every fall. Cr 3.

ENG 300 Topics in Journalism
Under this rubric the English Department will offer a variety of advanced courses that have journalistic writing as a major component of the course work. Topics include American culture and world communication, and the right to privacy. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 305 Autobiography
This course will focus on autobiographical forms with emphasis on the emergence and development of the genre. Possible topics include American autobiography, medieval lives, and the confession. The course may be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Variable cycle. Cr 3.

ENG 306 Studies in Genre and Form
The content of this course is flexible, but will focus upon some aspect or dimension of genre studies not treated through other course rubrics. Topics may include women and the romance, the vampire novel and popular culture, or the novel of sensation. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 307 History of the English Language
This course includes a survey of the prehistory of the language as well as a detailed study of Old, Middle, Early Modern, and Modern English and the forces that shaped these stages. Some methods of modern linguistic science are utilized in examining current usage. Change and development of the language are emphasized. Every fall. Cr 3.

ENG 308 Literacy Studies
This course examines specific topics in the history, practices, and theories of reading and writing, and surveys changing concepts of literacy, orality, illiteracy and theoretical debates over the meaning of the word "literacy" itself. Each section of the course includes a core of readings introducing the central concepts of literacy studies drawn from a variety of related fields such as socio-linguistics, the history of literacy and of print culture, the sociology and history of education, and the psychology of reading. Specific topics will include diverse areas of study such as the history of Anglo-American literacy practices in working-class autobiographies and slave narratives, the history and practices of digital literacies, and multilingual literacies. Cr 3.

ENG 309 Studies in Rhetoric
The course will introduce students to the many ways of thinking about rhetoric throughout history and stress the value of rhetorical criticism in analyzing texts, discourse, and language. Topics will vary but may survey theories of rhetoric from Plato and Aristotle to Campbell and Nietzsche or examine contemporary theoretical approaches to rhetoric, ranging from the neo-Aristotelian, dramaturgical, experiential and sociolinguistic to the postmodern. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 310 Topics in Language
This course may offer a variety of topics on language that include the following: linguistic approaches to literary analysis; language and culture; grammatical structure in English and related languages; and the history of linguistic thought. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Variable cycle. Cr 3.

ENG 311 Topics in Cultural Studies
This course explores specific cultural practices of the past and present. The goal of the course is to introduce students to the different ways in which popular culture has been analyzed and the ways in which different popular cultures have sustained themselves. Although topics courses will vary in subject matter, they will all share the common objective of examining the ways in which a given culture makes sense of itself. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 312 Topics in Interdisciplinary Studies
This course investigates literature in relation to other disciplines, with an emphasis on how various fields of knowledge contextualize and
elucidate our understanding of literary production. Topics may vary and include, for example, anthropology and drama, Freud and literature, literature and technology, and parallel movements in art and/or music and literature. Because of the diverse range of interdisciplinary studies, material is drawn from film, video, music, and art, as well as from printed texts. May be repeated for credit when topics vary. Students should consult the Department's Course Guide for detailed descriptions. Cr 3.

ENG 418 Independent Study in Genre and Form
By instructor's permission. See Department for application form. Cr var.

ENG 419 Seminar in Genre and Form
This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisite: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

ENG 431 Seminar on Literacy Studies and the Teaching of Writing
This seminar will consider topics in composition theory and practice within the broad context of histories and theories of literacy. Participants will be asked to make connections between curricular design or pedagogical practices and such issues as the history of public education and English studies, theories of discourse, writing and language use, and definitions of literary language and textuality. There will be consideration of contemporary research debates on the teaching of writing. This seminar is required for students enrolled in the Internship on the Teaching of Writing. This course fulfills the general education capstone requirement. Prerequisite: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

ENG 444 Independent Study in Interdisciplinary and Cultural Studies
By instructor's permission. See Department for application form. Cr var.

ENG 445 Seminar in Interdisciplinary and Cultural Studies
This course fulfills the general education capstone requirement. Students should consult the Department's Course Guide for detailed descriptions. Prerequisite: 24 credit hours in English, including ENG 245 or permission of the instructor. Cr 3.

Internships (back to English Courses)

ENG 409 Internship in Professional Writing
By application to the Department and arrangement with campus or local newspaper or journal. Prerequisite: ENG 309 or 310, or permission of the Department. Every semester. Cr var.

ENG 432 Internship in the Teaching of Writing
This Internship will provide qualified upper-class English majors with supervised experience in the teaching of writing. There is also the possibility of placement in tutoring and in community literacy programs. Students registering for the internship must also register for ENG 431 Seminar on Literacy Studies and the Teaching of Writing. Application and screening for the internship take place through the College Writing Committee. Cr var.

Experimental Courses (back to English 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.

Language Courses (back to top)

Course descriptions for Languages can be found under the Linguistics department.

English for Speakers of Other Languages (back to top)

English for Speakers of other Languages (ESOL) course descriptions can be found under the School of Education and Human Development.
Food Studies Overview

Director: Michael Hillard (Economics)

Assistant Professors: Matthew Hoffman; Jamie Picardy

Food Studies is the interdisciplinary study of the social, economic, political, and environmental factors that affect our food system. From farm to table, and table to mouth, food production and consumption is a lynchpin for economic systems and people’s daily life and health. Food is also central to culture – our identities, the way we connect socially, and how families and communities function. The USM Food Studies Program joins a nationwide movement to elevate the study of food systems, to critically evaluate key food-related issues including food insecurity, environmental sustainability, and racial and labor justice, and develop in its students applicable real world skills ranging from hospitality and entrepreneurship to social justice policy and activism. Through active mentorship, engaged learning both in the classroom and the community, powerful collaborations with food system activists, business people and professionals, and well placed internships, USM Food Studies students are well prepared for food-related careers in the business, nonprofit/community, and government sectors.

Why USM Food Studies?

- **Study with Great Faculty.** USM Food Studies Faculty are successful food studies scholars, dedicated to innovative and welcoming classroom instruction that features experiential learning and applied research, and are well connected to leaders in the Maine, New England and national food system movements. Our faculty introduce students to highly engaged instruction in a wide range of key food studies topics.

- **Robust Paid Internships with Leading Maine Food Organizations and Businesses.** The USM Food Studies Program has built strong collaborations with leaders in the Maine food system, including innovative entrepreneurs, anti-hunger professionals and activists, sustainable farming practitioners and experts, and leading policy makers. Food Studies students have access to a wide array of placements that will jump start their careers in the world of food.

- **Study Abroad.** USM Food Studies is committed to developing meaningful short and medium length exchanges abroad, including in Italy, the home of the international Slow Food movement, and in Iceland. The program is also working to build opportunities for its students in nearby colleges and universities.

- **Become a Systems Thinker with Practical Skills.** USM Food Studies prepares students with a strong foundation in the economics, environmental impact, sociology, politics and policy of food systems, studying issues deeply relevant to the region, from sustainability to social justice. Through classes featuring research and service learning projects, and career tracks and internships, USM students match big picture understanding with specific food-related career skills.

- **Round Out Your USM Education.** Through our undergraduate minor and graduate coursework, students in a variety of majors and programs can complement their existing course of study with the benefits of the USM Food Studies Program. If you are in a career-focused major like nursing or business, take advantage of Food Studies’ liberal arts instruction in the field that complements your chosen major and personal interests in food. If you are a liberal arts major, extend your knowledge to the world of food systems and while gaining access to career training and placement in career building internships.

Minor in Food Studies

Description

The Food Studies Undergraduate Minor (18 credits) provides students with a broad interdisciplinary understanding of the social, economic, and environmental factors associated with global, national, regional, and local food systems. The minor also provides an opportunity for students to develop a range of professional skills central to work within food-related professions in the private, nonprofit and public sectors. The Food Studies Minor consists of three required courses, and three additional courses organized into tracks, to enable students to pursue a particular food
system interest area more deeply. Diverse internship opportunities are available to Food Studies students, and students are strongly encouraged to participate in an internship as one of their three track courses.

The minor is designed to achieve a range of student learning outcomes. Upon successful completion of the minor, students will be able to:

- Describe, critically analyze, and evaluate food systems at multiple levels, including trends and future potential.
- Identify, question, and take personal responsibility for their individual roles and spheres of influence as participants within the local, regional, national and global food systems, including exercising a level of intercultural competence to be able to effectively engage the broader community on food-related concerns.
- Apply conceptual, theoretical and technical food systems concepts and knowledge to real world circumstances and challenges, including designing, and/or evaluating solutions.
- Identify, analyze, and evaluate contemporary and historical factors that affect food supply and food security, including environmental issues and issues of power and social justice (e.g. labor, economic, environmental, racial and gender equity).
- Analyze, assess and critically evaluate the relationships between place, culture, and food systems.
- Develop and practice workforce skills and knowledge in a food-related context through an engaged learning experience; these include skills essential to leadership, entrepreneurship and business, policy analysis, advocacy and organizing, and oral and written communication.

In addition, students will be able to:

- Exercise critical thinking skills, including analysis and evaluation;
- Communicate clearly and effectively in both oral and written form;
- Demonstrate fundamental scientific or technical literacy (this could be acquired outside the Program, or within the Program through courses linking science and policy); and
- Apply disciplinary knowledge from their major to their minor, and interdisciplinary knowledge from their minor to their major

**Program Requirements**

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

To complete the Food Studies minor, students must take three required courses (9 credits), one or two course(s) focused on developing a particular set of professional skills based on their field of interest (3-6 credits), and one or two additional electives (3-6 credits). Students are strongly encouraged to select or design an internship as one of their two elective courses. Students may choose electives in one of the pre-designed tracks, or they may design their own track to best develop their unique interests.

Students must earn a C- or better in each course in order for the course to count towards the minor.

**Required Courses** (9 credits)
- FSP 100/EYE 199 Introduction to Food Systems
- FSP 200 Food, Power and Social Justice
- FSP 210 Food and Environment

**Tracks**

In their selected track, students take one or two courses emphasizing professional skills (indicated by an asterisk) and an additional 3-6 credits in the track.

**A. Social Justice, Policy and Advocacy Track**

**Required Course**
- *ECO 335 Political Economy of Food

**Elective Courses**
- ECO 323 US Labor and Employment Relations
- FSN 270 World Food and Nutrition (online Orono)
- FSP 225 Topics in Food Studies
- FSP 320 Poverty and Hunger
- FSP 395 Internship in Food Studies
- SOC 363 Food, Culture and Society

**B. Entrepreneurship Track**

**Required Courses**
- *BUS 260 Marketing
- *FSP 215 Entrepreneurship and the Business of Food
Elective Courses
BUS 341 Product Development
BUS 347 Triple Bottom Line
BUS 362 Market Opportunity Analysis
FSP 225 Topics in Food Studies
FSP 395 Internship in Food Studies

C. Hospitality and Management Track
Required Course
*TAH 222 Food and Beverage Management

Elective Courses
FSP 225 Topics in Food Studies
FSP 395 Internship in Food Studies
TAH 263 Food and Culture
TAH 264 Introduction to Culinary Tourism
TAH 299 Beverage Operations
TAH 361 Local Food & Agritourism
TAH 420 Off-site Catering

*Required track course

Course Descriptions

FSP 100/EYE 199 Introduction to Food Systems
Using social science perspectives, this course introduces students to food systems and their components (e.g., agricultural production, food processing, consumption, regional linkages, food and agricultural policies), to alternative food movements and issues of social justice, and to the field of food studies. Cr 3.

FSP 200 Food, Power and Social Justice
This course explores social as well as environmental dimensions of sustainability in today's globalized food system. We use conceptual frameworks, including food justice and food sovereignty, to analyze power and justice in relation to farmers and agro-ecological systems, farm and food industry workers, business owners and policymakers, as well as communities and consumers. Cr 3.

FSP 210 Food and the Environment
This course examines the relationships between the natural environment and human-made food systems and the environmental impacts of food production, processing, distribution, and disposal. We explore how different frameworks and different analytical methods help us to identify strategies for making the food system more sustainable and resilient. Students will research a food system-related environmental problem and prepare a policy or design brief to address that problem. Cr 3.

FSP 215 Entrepreneurship and the Business of Food
This course examines the entrepreneurial activities associated with the development, launch, and growth of food-based businesses. This class uses local case studies, lecture, and experiential learning to introduce students to the role entrepreneurship and entrepreneurial thinking play in business success. Cr 3.

FSP 225 Topics in Food Studies
Topics courses are designed to explore specialized theoretical and substantive topics related to food and agriculture. FSP 225 may be repeated for credit, as long as the topics are different. Cr 1-3.

FSP 300 Food: History, Culture, Politics
This course will explore the history, culture, and politics of food in America with a special emphasis on New England and regional differences. The course will examine colonial food ways including diet, food theft, trade patterns, and regional diversity; 19th century health, sanitation and temperance reforms; the rise of cooking schools, food writing, and regional cuisine; and contemporary issues such as fast and slow food, terminator seeds, organic farming and the diet industry. Cr 3.

FSP 320 Poverty and Hunger
One paradox of the contemporary food system is that it generates both hunger and obesity at the same time; in this course, we examine the extent of hunger, malnutrition and starvation in the world. This course examines societal structures of inequality as key determinants of access to food and the links between agricultural technologies, trade, hunger, and the reconfiguration of the global agri-food system. Finally, we evaluate solutions to problems of hunger, starvation and malnutrition. Cr 3.
FSP 395 Internship in Food Studies
The course is designed to provide real-world experience of and insight into food system-related professional roles through work in a community food-based business, organization or agency. The primary objective of the internship is the application of the perspectives, substantive knowledge, and methods studied in the Food Studies Minor curriculum to a particular organizational setting. In addition to field placement responsibilities, students are expected to regularly reflect and report on their experience. Contact the Food Studies Program Director or Administrative Specialist for details. Prerequisite: FSP 100 (can be concurrent). Cr 3-6.

Game Design Studies

Game Design Studies Overview

The Game Design minor is designed to equip students with skills and competencies applicable both in the field of game development and more broadly in any field in which technology-dependent team-based development is central. Students will be able to:

- Understand and articulate the core defining elements of game and simulation design and development
- Apply their understanding in collaborative development processes
- Enter jobs with an understanding of programming, design, and development
- Transfer their knowledge to other disciplines in which game design principles are of growing importance: marketing, public relations, software development, healthcare, etc.

Minor in Game Design Studies

Description

The minor in Game Design Studies offers a core education in game design and development, along with a number of interdisciplinary options for specialized tracks that allow students to further their development in one of the areas crucial to development of a successful game. In game design, the theoretical and practical exist side by side. This program reflects that by challenging students to develop an academic understanding of games while also focusing on the applied skills needed to be part of a game design team. Programmers, writers, artists, designers, and managers all come together in Game Design Studies, building teams and—more importantly—building games.

Program Requirements

General Track (9 credits)
- GS 100 Gaming & Simulation 1: Introduction to Game and Simulation Development
- GS 200 Gaming & Simulation 2: Collaborative Concepts, Tools and Processes
- GS 300 Gaming & Simulation 3: Practicum in Theory & Application

*All students complete the General Track and one other track listed below

Programming Track (9 credits)
*The three required courses in the General Track plus:

- COS 160 Structured Problem Solving: Java
- COS 199 Unity 101 (Prerequisite COS 160)
- COS 299 Unity 201

Other courses which could be added/substituted with advisor approval include:

- COS 161 Algorithms in Programming
COS 246 Programming Handheld Devices
COS 285 Data Structures
COS 430 Software Engineering

Art & Animation Track (9 credits)
*The three required courses in the General Track and three of the following:

ART 141 Surface, Space, Time
ART 221 Digital Art and Design I
ART 222 Digital Art and Design II
ART 252 Drawing the Figure
ITT 181 Computer Applications and Concepts
ITT 231 Technical Visualization
ITT 282 Computer-Aided Design
ITT 344 Digital Video and Animation Technologies

Sound Design Track (9 credits)
*The three required courses in the General Track plus:

CMS 222 Digital Radio and Audio Production
MUS 271 Principles of Digital Audio and Music Production
MUS 371 Advanced Principles of Digital Audio Music Production

Writing and Narrative Design Track (9 credits)
*The three required courses in the General Track plus:

CMS 225 Screenwriting
ENG 301 Writing Fiction
ENG 399 Visual and Interactive Storytelling

Business and Production Track (9 credits)
*The three required courses in the General Track and three of the following:

BUS 341 New Product Development
BUS 356 Digital Marketing
BUS 385 Entrepreneurship and Venture Creation
BUS 386 Creative Strategies for Entrepreneurs
BUS 389 Self-Directed Innovation Project
BUS 485 Managing the Growing Entrepreneurial Venture
CMS 220 Topics in Media Production I
CMS 360 Ethical Dilemmas in the Digital Age
ITP 210 Technical Writing
ITP 230 Project Management
PHI 221 Media Ethics

Course Descriptions

GDS 100 Game Design I: Introduction
Introduction to the history, concepts, strategies and methodologies of game theory and game, simulation and interactive development. This is a hands-on course where students learn the history and theories of gaming while developing and making board games, role playing card games, and a simple video game using Scratch or other software created to introduce programming and design concepts. No coding experience is required. Cr 3.

GDS 200 Game Design II: Collaborative Concepts, Tools and Processes
Exploration of key concepts, tools and processes for Game, Simulation and Interactive Development. The course covers a deeper understanding of game theory. Students present and works through specific methods of level and environment design, gameplay balance, different demands and features of different gaming genres using creative teamwork and creative team problem solving. Students in this course will work together to develop more advanced games, simulations and/or interactive projects using more sophisticated game development software. Prerequisite: GDS 100 or Instructor Permission. Cr 3.
GDS 300 Game Design III: Practicum in Theory & Application
The course presents an in-depth exploration of collaborative Game, Simulation and Interaction development. Students in the course learn creative problem stating and solving skills, project management and other relevant proficiencies for game, simulation and interactive development relevant to the continually evolving industries. Students learn how to apply their individual skills sets in development of teams for project research, development and publication of games and simulations. Students work in collaboration to advance development and design skills and observe development processes at local studios. Prerequisite: GDS 200 or Instructor Permission. Cr 3.
History Overview

Chair of the Department of History and Political Science: Robert Klotz; Program Coordinator for History: Libby Bischof

Associate Professors: Bischof, Johnson, Klotz, Tuchinsky, Zhao; Assistant Professors: Rowe, Sparks

Professor Emerita: Eagan

Associate Professor Tuchinsky is serving as Dean of the College of Arts, Humanities, and Social Sciences.

With a synergy of two close disciplines, the History Program and the Political Science program have joined together into the same department to expand their curriculum and course offerings to their students. The department offers two distinct majors: a BA degree in History and a BA degree in Political Science. The two programs deliver a variety of courses, often interconnected, that are of interest to students in both majors.

Additionally, the faculties in the department offer a minor in History, a minor in Political Science, and a minor in Race and Ethnic Studies. It is common for a student majoring in one program to be able to quickly add a minor in the other program, as there is a well-coordinated schedule of classes that allow students to maximize their studies and earn their degrees in a more effective manner.

History, as a discipline and intellectual field, embraces all past human activity; there is no phenomenon without history. Historians apply various methodologies to discover and organize facts about people and events and to create from them meaningful explanations and narratives. History itself changes--through recognition of diversity, the use of new technology (e.g. digital history and digital humanities), and by focusing on new questions. One is: "Whose History is this, anyway?"

Through a series of introductory and advanced courses, history majors become familiar with past knowledge, the forces of change, and the varieties of historical scholarship dealing with societies and cultures throughout the world. They also learn to collect, evaluate, organize, and interpret evidence, and to present it in oral, written, and digital forms. Students with grounding in historical knowledge possess the central core of an excellent liberal arts education. The curriculum provides a basis for active citizenship, as well as for graduate schools, and employment. History majors are prepared for jobs in teaching, public history, journalism, and numerous other professions such as law, and public and private positions requiring research, writing, oral expression and critical thinking skills.

BA in History

Description

History offers a major that leads to a Bachelor of Arts degree and a minor for students majoring in other disciplines. The major consists of 39 credit hours in history plus a language requirement. The minor consists of 15 credit hours in history. In addition, the Department offers an internship program (HTY 300) in cooperation with area historical societies, museums, libraries, and other institutions.

College Level Equivalency Program (CLEP) examinations are available in Western Civilization and United States History. Unusually well-prepared entering students who pass one or more of these examinations may substitute 300-level course(s) for the HTY 101/102 and/or HTY 121/122/123 introductory surveys.

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. Majors and minors are reminded that, in addition to History requirements, they must also meet those of the University Core curriculum.

Program Requirements

History Requirements

To graduate with a bachelor of arts in history, a student must successfully complete a minimum of 39 credits in history courses as follows:
Field I
   HTY 101 Western Civilization I
   HTY 102 Western Civilization II

Field II (select one of the following pairings):
   HTY 121 and one other: HTY 122, 123, or 142
   HTY 122 and one other: HTY 121, 123, 141, or 142
   HTY 123 and one other: HTY 121, 122, or 141
   HTY 141 and one other: HTY 122, 123 or 142
   HTY 142 and one other: HTY 121, 122, or 141

Field III (select two)
   HTY 152 The Islamic Near East
   HTY 171 Traditional East Asia
   HTY 172 Modern East Asia
   HTY 181 Latin America I
   HTY 182 Latin America II

Research Methods Course
   HTY 200 Reference, Research, and Report Writing

Advanced Elective History Courses

Select five 303-399 level courses in consultation with your History major advisor.

Capstone: HTY 400 Senior Seminar

Other courses in the College of Arts, Humanities, and Social Sciences have historical interest. With prior approval from the Department, majors may apply one such upper level course toward their Advanced History Elective requirements. Majors also are encouraged to take such courses as supplementary electives.

Language Requirement

This requirement can be fulfilled by achieving a grade of at least C in the final semester of a beginning level language course or by examination.

Completion of one of the following courses at USM with a grade of at least C fulfills the language requirement:

American Sign Language: ASL 102
Arabic: ARA 199
Chinese: CHI 102
French: FRE 102
German: GER 102
Italian: ITA 102
Spanish: SPA 102

History students are encouraged to pursue language study beyond the first year, and to take advantage of USM's Study Abroad programs.

Graduate programs in History frequently require intermediate level language proficiency. Students intending to pursue graduate study should take additional language courses.

BA in History - History/Social Sciences Elementary Teacher Education

Description

See Program Requirements

Program Requirements

The curriculum for this track of the history degree is designed to provide prospective K-8 teachers a strong academic foundation in History and Social Studies along with a thorough interdisciplinary education in math, science, and English language and literature. The curriculum also offers a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences.

Students completing the 120-hour degree will have satisfied the USM Core Curriculum and the History Major as well as liberal arts courses
required for initial K-8 teacher certification. Graduates are eligible for recommendation for K-8 teacher certification in Maine.

USM Core Curriculum (including pre-internship education courses):

- EYE 108 Culture, Identity and Education (recommended) (3 cr)
- EDU 100 Exploring Teaching (recommended) (3 cr)
- College Writing - ENG 100 (3 cr)
- Cultural Interpretation - ENG 140 or 145 (3 cr)
- Quantitative Reasoning - MAT 120 (4 cr)
- Creative Expression (3 cr)
- Socio-Cultural Analysis - HRD 200/SBS 200: Multicultural Human Development (3 cr)
- Science Exploration - (4 cr)
- Ethical Inquiry - EDU 310 Purpose of Schooling in a Democracy (3 cr)
- Diversity (3 cr)
- International (3 cr)
- Cluster:
  - EDU 305 Foundations of Cultural and Linguistic Diversity (3 cr)
  - SED 335 Students with Exceptionalities in General Education (3 cr)
  - SED 520 Multi-Tiered Systems of Educational Support (3 cr)

History/Social Studies Elementary Education Pathway Requirements:

- European History (6 credits)
  - HTY 101 and 102
  - (Students may substitute a World History survey for this requirement.)
- United States History and Government (9 credits)
  - HTY 121, 122, 123 (choose two)
  - POS 101
- Geography (3 credits)
  - GEO 101, 120, or 170
- Diversity/International Requirement (6 credits)
  - POS 104, 205; ANT 220, 222; HTY 141, 142, 152, 171, 172, 181, 182 (choose two)
- Methods (3 credits)
  - HTY 200
- Electives (9 credits)
  Choose three from the following:
  - Any HTY 300-level courses
  - POS 261, 262, 392, 393, 463
- Capstone (3 cr)
  - HTY 400

Elementary Teacher Education (K-8) Requirements

All requirements for the Elementary Teacher Education Program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here:

https://cms.usm.maine.edu/teacher-education/elementary-teacher-education

Students who fail to meet any of the academic or professional requirements of this track of the major must withdraw from this track, though they may still complete all requirements for the BA in History (without recommendation for teacher certification).

BA in History - History/Social Studies Secondary Teacher Education
Description

See Program Requirements

Program Requirements

The curriculum for this track of the History degree is designed to provide prospective 7-12 teachers a strong academic foundation in History and Social Studies along with a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences.

Students completing the 120-hour degree will have satisfied the USM Core Curriculum and the History Major. Graduates are eligible for recommendation for 7-12 teacher certification in Maine.

USM Core Curriculum (including pre-internship education courses):

- EYE 108 Culture, Identity and Education (recommended) (3 cr)
- EDU 100 Exploring Teaching (recommended) (3 cr)
- College Writing--ENG 100 (3 cr)
- Cultural Interpretation (3 cr)
- Quantitative Reasoning--MAT 120 (4 cr)
- Creative Expression (3 cr)
- Socio-Cultural Analysis--HRD 200/SBS 200 Multicultural Human Development (3 cr)
- Science Exploration (4 cr)
- Ethical Inquiry--EDU 310 Purpose of Schooling in a Democracy (3 cr)
- Diversity (3 cr)
- International (3 cr)
- Cluster:
  - EDU 305 Foundations of Cultural and Linguistic Diversity (3 cr)
  - SED 335 Students with Exceptionalities in General Education (3 cr)
  - SED 520 Multi-Tiered Systems of Educational Support (3 cr)

History/Social Studies Major Requirements: (39 cr)

- Field I
  - HTY 101 Western Civilization I
  - HTY 102 Western Civilization II

- Field II (complete one of the following pairings)
  - HTY 121 and one other: HTY 122, 123, or 142
  - HTY 122 and one other: HTY 121, 123, 141, or 142
  - HTY 123 and one other: HTY 121, 122, or 141
  - HTY 141 and one other: HTY 122, 123, or 142
  - HTY 142 and one other: HTY 121, 122, or 141

- Field III (select two)
  - HTY 152 The Islamic Near East
  - HTY 171 Traditional East Asia
  - HTY 172 Modern East Asia
  - HTY 181 Latin America I
  - HTY 182 Latin America II

- Research methods course
  - HTY 200 Reference, Research, and Report Writing

- Elective advanced history courses
  - Select five 303-399 level courses in consultation with your major advisor.

- Capstone
  - HTY 400 Senior Seminar

In addition, although it is not required, History majors in the Secondary Education pathway are strongly encouraged to take POS 101: Intro to American Government

Language Requirement
This requirement can be fulfilled by achieving a grade of at least C in the final semester of a beginning level language course or by examination.

Completion of one of the following courses at USM with a grade of at least C fulfills the language requirement:

- American Sign Language: ASL 102
- Arabic: ARA 199
- Chinese: CHI 102
- French: FRE 102
- German: GER 102
- Italian: ITA 102
- Spanish: SPA 102

History students are encouraged to pursue language study beyond the first year, and to take advantage of USM's Study Abroad programs.

Graduate programs in History frequently require intermediate level language proficiency. Students intending to pursue graduate study should take additional language courses.

**Secondary Teacher Education (7-12) Requirements**

All requirements for the Secondary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here:

https://cms.usm.maine.edu/teacher-education/secondary-teacher-education

*Students who fail to meet any of the academic or professional requirements of this track of the major must withdraw from this track, though they may still complete all requirements for the BA in History (without recommendation for teacher certification).*

**Minor in History**

**Description**

See Program Requirements

**Program Requirements**

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 15.

Requirements: five courses in History, at least four of which must be at the level of 200 and above. Students are encouraged to consult with a History faculty member in the selection of their courses.

**Minor in Race and Ethnic Studies**

**Description**

The Race and Ethnic Studies minor is an interdisciplinary program drawn from the humanities, social sciences, and the arts that is designed to familiarize students with the historical, social, intellectual, and cultural production of race and ethnicity. Students will learn how constructions of ethnicity, race, and racism have changed over time, often in response to changes in the nature of work, family, gender and sexuality, and patterns of migration. Students in the program will develop skills in critical thinking and analysis, social theory, and writing. This academic pathway will help to prepare students for effective citizenship and work in an increasingly diverse world.

Questions about the minor can be directed to Leroy Rowe, Assistant Professor, Department of History and Political Science, leroy.rowe@maine.edu
Program Requirements

The minor consists of six courses (18 credits)

*No more than six credits used to satisfy the requirements of a student’s major can count towards the Race and Ethnic Studies minor.

*Students must earn a C- or better in each course in order for the course to count towards the minor.

I. Students must choose two (2) 100-level courses from the list below. Courses must come from two different departments/programs.

- HON 101 Race, Reflection and Reality
- HTY 141 African American History to 1865
- HTY 142 African American History since 1865
- ENG 145 Topics in Literature: Black Writing Matters
- ANT 102 Biological Anthropology
- MUH 105 Multi-Cultural Perspectives of American Popular Music and Jazz
- MUS 103 Introduction to Jazz
- SOC 150 Social Networks and the Value of Diversity

II. Students must take four (4) classes at the 200-level or above, selected from the following list of courses. Students must take classes from at least two different prefixes when completing the electives (e.g. HTY and ENG, etc.)

- ANT 220 Indigenous Studies of North America
- ANT 255 Cultures of Africa
- ANT 380/HTY 394 African-American Historical Archaeology
- ARH 310 Art History: Cross-Cultural Perspectives
- ARH 325 American Art
- CMS 210 Topics in Media Criticism: Race, Class and Gender in Media
- CMS 290 Intercultural Communication
- CRM 365 Race and Punishment
- EDU 305 Foundations of Cultural and Linguistic Diversity
- ENG 345 Racial Formations
- ENG 348 Topics in Interdisciplinary Studies: Slavery and Public History
- ENG 383 Studies in African-American Literature and Culture
- ENG 385 Studies in Nineteenth-Century American Literature and Culture
- GEO 455 Gender, ‘Race,’ and Class in the City
- HTY 334 The Holocaust: Policy, Practice, Response
- HTY 335 Genocide in Our Time
- HTY 345 African Americans and American Justice
- HTY 346 The Civil Rights Movement
- HTY 347 Race and the Politics of Mass Incarceration
- HTY 356 Civil War and Reconstruction
- HTY 357 The Gilded Age in America, 1869-1898
- HTY 364 History of Women in the United States
- HTY 375 History of American Popular Culture
- HTY 394 Topics in History: Immigration History
- PHI 245 Africa, Social Justice, and Exile
- PHI 312 Morality in African Literature and Film
- POS 334 Race and Ethnicity in U.S. Politics
- POS 354 African Americans and American Justice
- POS 355 Race and the Politics of Mass Incarceration
- POS 392 American Political Thought I
- POS 393 American Political Thought II
- POS 380 Topics in Political Science: Latino Politics
- SOC 327 Social Movements
- SOC 365 Sociology of the Body
- WGS 380 Politics of Difference
History Course Descriptions

The following courses are offered by the History Program:

**HTY 101 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. Every Fall & Spring semester.

**HTY 102 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. Every Fall & Spring semester.

**HTY 121 United States History to 1800**
A thematic treatment of the formative period of early American history from the era of European colonial expansion to the so-called Revolution of 1800. Political, social, economic, intellectual, and institutional development provides a context for addressing the peoples, personalities, and events of the colonial and early national stages of growth of the United States and its relations with the larger world. Cr 3.

**HTY 122 United States History 1800 to 1900**
A thematic treatment of the nineteenth-century United States and its peoples. Chronological coverage of the nation’s political, social, economic, intellectual, and institutional development provides the context for addressing the personalities and events of the country and its relations with the larger world. Cr 3.

**HTY 123 United States History since 1900**
A continuation of the treatment of the American people and nation extends coverage of political, social, economic, intellectual, institutional, and diplomatic development through the twentieth century. The events, issues, and peoples of the modern nation and their relation to the larger world are covered within the country’s increasing international involvement. Cr 3.

**HTY 141 African American History to 1865**
Topics covered in this survey course include the persistence of African culture in the Americas, the Atlantic slave trade, an in-depth analysis of slavery as it impacted women and children, and the early African American voice as found in primary sources. The course will use various forms of media in instruction and research. Cr 3.

**HTY 142 African American History from 1865**
A continuation of HTY 141. This course will cover such topics as Black leadership, lynching, the Harlem Renaissance, African Americans abroad, civil rights, and popular culture. The course will use various forms of media in instruction and research. Cr 3.

**HTY 152 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 nonIslamic people both within and without the region. Cr 3.

**HTY 171 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. Every Fall semester.

**HTY 172 Modern East Asia**
China and Japan since about 1700, emphasizing contrasting moves toward modernization in two traditional societies. Cr 3. Every Spring semester.

**HTY 181 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 182 Latin America II**
This survey begins with the shattering of Iberian colonialism, and moves rapidly into the twentieth 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. Prerequisite: sophomore status or permission. Cr 3. Every Fall & Spring semester.

**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. Graded pass/fail, so does not count for major credit. Can be taken twice. Cr 3. Available every semester by Internship coordinator permission. Students should consult with Internship coordinator at least one semester prior to beginning their internship work.

**HTY 303 History of the Ancient Near East and Greece**
This course surveys the early history of the eastern Mediterranean region from ca. 4000 to ca. 300 B.C.E. 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 101 or equivalent. Cr 3.

**HTY 304 History of Rome**
This course surveys the political, social, and religious history of the Roman state from the eighth century B.C.E. to the fifth century C.E. Emphasis is given to the period of the Roman Republic (509-31 B.C.E.) and to the rise of Christianity within the Roman Empire. Prerequisite: HTY 101 or equivalent. Cr 3.

**HTY 305 The Historical Jesus**
This course is a “workshop” wherein the participants analyze and evaluate a variety of documents (both ancient and modern) which purport to describe the life and career of Jesus of Nazareth. The goal is to develop historiographical skills (including writing) as well as to illuminate the subject’s life. Cr 3.

**HTY 306 Roman Sexuality and Early Christianity**
This course will explore ancient Roman relations concerning human biology, sexuality, and morality; the structure and definition of “family”; the gender-conscious operation of the extended household (including slaves and free clients); and the relationship of the family to the Roman state. The primary focus is the Roman imperial period, ca. 100 B.C.E. to 300 C.E. Because this same period witnessed the origins of Christianity within the Roman Empire, the course also is concerned with Christian variations to these same issues. Cr 3.

**HTY 307 Judaism, Christianity, and Islam: Origins and Interactions**
This course will survey the origins, nature, and early history of the world’s three major monotheistic religions: Judaism, Christianity, and Islam. Necessarily this involves a survey of the history of the Mediterranean/Near Eastern world in which these religions first appeared and prospered. The chronological focus is ca. 600 B.C.E. to ca. 800 C.E. Cr 3.

**HTY 308 Polytheists, Jews, and Christians in the Roman Empire**
This course, an exploration of the nature and function of religion in human society, uses the Roman Empire as a sample environment. The course will examine these independent religious communities as well as their interactions. Cr 3.

**HTY 309 Religious Violence and Persecution in Early Western History**
An interdisciplinary investigation of religious violence and persecution in early Western history. The course explores why religion and violence so often seem to be connected. Accordingly, the course will explore the general nature of religion and the historical function of religion in human society. 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 101 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 engendered the religious wars and the Counter Reformation. Prerequisite: HTY 101 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 102 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 nineteenth century; there is a strong emphasis on cultural aspects of Russian and Soviet developments. Prerequisite: HTY 102 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: junior or senior status. Cr 3.

HTY 326 History of England
A survey of England from Anglo-Saxon times to the beginning of the twentieth 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 101 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. Cr 3.

HTY 334 The Holocaust: Policy, Practice, Response
An examination of the roots of anti-Semitism in European history, the development of the policy 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 102, another course in twentieth-century Europe or the United States is also recommended. Cr 3.

HTY 335 Genocide in Our Time
This course will analyze the nature of evil/genocide by examining examples of governmentally or ideologically initiated murder. It will seek to understand the historical background and reality of victim, bystander, and victimizer. It will use a number of approaches, namely psychological, philosophical, religious, sociological, and political to help our understanding. Cr 3.

HTY 339 European Women’s History
A survey of women’s lives in historical context, from ancient times to the twentieth 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 345 African Americans and American Justice
This course is an exploration and analysis of selected U.S. Supreme Court rulings on cases related to African American citizenship, civil rights and equal treatment during the nineteenth and twentieth centuries. This course also explores the changing boundaries and content of state and national citizenship, from the early national period (during the slavery era) to the mid-twentieth-century. Prerequisite: EYE and Sophomore status or permission of the instructor. Cr 3.

HTY 346 The Civil Rights Movement
This course examines the creation of legalized discrimination in the United States and the process used by selected individuals and organizations to dismantle segregation. By illuminating the fight for social justice, economic opportunities, and educational advances, the course analyzes how the dynamics of the Civil Rights Movement changed the face of America. Prerequisite: EYE and Sophomore status or instructor permission. Cr 3.

HTY 347 Race and the Politics of Mass Incarceration
This course examines the cultural, political and institutional dynamics that produced and sustain mass incarceration in the United States. The course takes a short-range historical approach to studying linkages between the intersection of mass incarceration, racism, sexism, and poverty, and how these forces impact individuals, families, and communities of color. Prerequisite: Sophomore status or instructor permission. 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 121 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 121 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 122 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 122 or permission. Cr 3.

HTY 358 Early Twentieth-Century United States, 1898-1938
The United States from 1898 to 1938. Analysis and interpretation of cultural, economic, and political developments of the Progressive Era, World War I, the 1920s, and the Depression and New Deal. Prerequisite: HTY 123 or permission. Cr 3.

HTY 359 The United States since 1939
The United States from the Depression and New Deal through World War II, the Cold War, the Civil Rights Movement, and the Vietnam War. Discussion of economic, political, and social developments and interpretation of these developments. Prerequisite: HTY 122 or permission. Cr 3.

HTY 360 History of Maine
A survey of Maine’s social, economic, cultural and political life from exploration and early settlement to the present. 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 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: two of the following: HTY 121, 122, and 123 or permission. Cr 3.

HTY 374 Photographing American History
This course focuses on how the invention of photography in 1839 forever altered the ways humans understood and made sense of both their past(s) and their present(s). Students analyze major historical events and moments in American history as captured through a camera, learn to read photographs as texts, and explore how the photograph has shaped American history and culture. Prerequisite: ENG 100. HTY 122 or HTY 123 recommended but not required. Cr 3.

HTY 375 History of American Popular Culture
This course presents selected examples of American popular arts and entertainments from 1830 to the present and places them in their historical and critical contexts. The course emphasizes that the production and transmission of culture is a reaction to social, political, and economic forces and events. Prerequisite: ENG 100. HTY 122 or HTY 123 recommended but not required. Cr 3.

HTY 377 Chinese Thought: Confucianism, Daoism, and Zen Buddhism
Prior to the modern era, the Chinese interpreted their world through traditional idea systems, the most prominent of which were Confucianism, Daoism, 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 171 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 121 or 122 or permission. Cr 3.

HTY 379 Diplomatic History of the United States II
Analysis and discussion of United States foreign policy since 1914. Considers the origins and effects of policy and also differing interpretations of issues such as the nature of “isolationism” and “interventionism,” the origins of the world wars and the Cold War, the meaning of “Vietnam,” and the relative influence of economics and ideology in shaping policy and action. Prerequisite: HTY 123 or permission. Cr 3.

HTY 380 The 1960s
This course examines social, political, economic, and cultural developments in the United States in the period from 1960 to 1970. It also looks at events worldwide, and the contested meaning of “The Sixties.” 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, folklore, and religions will be considered. Cr 3.

HTY 388 Revolution of Modern China
A course on the political history of modern China from the 1840s to the present. Focusing on the political, social, and cultural revolutions, this course will examine their causes, courses, and consequences, particularly the ways in which these revolutions shaped the course of the political development of modern China. Prerequisite: HTY 172 recommended. Cr 3.

**HTY 390 Traditional Japan: Court and Warriors**
This course examines Japanese history before 1800. The primary focus will be on major political and social trends that led to the transformation of state and society. Attention will also be given to religious beliefs, rituals, art, and literature. Prerequisite: HTY 171 recommended. Cr 3.

**HTY 394 Selected Topics in History**
An analysis of a selected historical problem not already covered by regular course offerings in history will be offered. The course may be repeated for credit when different topics are offered. (Offered occasionally.) Cr 3.

**HTY 397 Independent Study Semester**
This is the course designator for students who participate in the History Department’s semester abroad exchange program with University College Winchester in England. Cr 3-15.

**HTY 398 Independent Study in History**
An independent research course offered only in fall or spring semester, primarily for juniors and seniors. The course material should not be part of regular department offerings. To enroll for the course, the student, in the prior semester, must present a proposal to an appropriate professor who will agree to mentor and evaluate the project. The normal outcome is a research paper. Application forms are available in history offices on both campuses. Cr 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. Prerequisites: HTY 200 and senior status. Preference to history majors. Every Fall & Spring semester. Cr 3.
BA in Liberal Studies-Humanities

Description

Explore history, philosophy, art, literature, religion, language and more with the distinguished Humanities faculty at USM. This major provides a broad-based understanding of the humanities for students who want to explore more than one traditional humanities discipline. It also provides the opportunity to combine existing liberal arts credits from other institutions with USM Humanities courses to create an efficient and coherent path to degree completion.

The humanities is the study of the human condition and its relationship to human cultures, social and political formations, and the natural world. The humanities comprise a variety of disciplines such as history, philosophy, religion, the arts, language, and literature. Methodologically, humanists are eclectic, drawing upon multiple approaches ranging from critical theory and cultural studies to empiricism, hermeneutics, historicism, philology, narrative, and exegesis. The humanities also includes scholarly, professional, technical, and creative writing.

The Humanities offer the framework and skills for meeting the challenges of our complex and constantly changing world:

- knowledge of cultural, intellectual, artistic, and literary traditions
- appreciation of the cultural and historical contours of diversity
- skills of close reading, analysis, synthesis, persuasion/rhetoric, and communication
- intellectual curiosity
- global, historical, and ethical awareness

LSH - 15-week and 7-week Online and Traditional Live Format

This major has been developed to be offered in both a traditional live format as well as in an online format.

Finishing a degree is challenging. Work and family commitments often make it difficult to maintain steady progress toward a degree. Courses may be offered in the traditional 15-week fall and spring semesters in addition to some course availability in 7-week sessions. USM's 7-week online format offers students both the convenience of taking classes online and the opportunity to focus on one course at a time. Students can make steady progress while taking one course per session. If life interrupts a session, the next session is right around the corner. In addition, USM offers a 4-week online winter session, and 4-week and 7-week sessions each summer.

Liberal Studies-Humanities chair:  Jason Read (Philosophy/Liberal Studies)

Liberal Studies-Humanities faculty:  Libby Bischof (History), Christopher Beam (History), Yishai Cohen (Philosophy/Liberal Studies), Gary Johnson (History), Bud McGrath (English), Julien Murphy (Philosophy/Liberal Studies), Abraham Peck (History), Gerald Peters (English), Seth Rogoff (History), Kate Wininger (Philosophy/Liberal Studies)

Professor Murphy is serving as Associate Dean of the College of Arts, Humanities, and Social Sciences.

Program Requirements

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, Humanities, and Social Sciences, and the University's Core curriculum.
Major Credit and Grade Policy

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.

Distinction in the Major

Graduating with distinction in the major is granted if the student's GPA in Liberal Studies-Humanities is at least 3.5 or higher upon completion of all requirements for the major.

Required Courses (36 credit hours)

- LSH 240 Introducing the Humanities (3 credit hours)
- LSH 340: Topics in the Humanities (3 credit hours)
- LSH 440: Capstone Experience in the Humanities (3 credit hours)
- HTY 101 and 102 (6 credit hours)
- Two Philosophy courses at the 200-level and/or above (6 credit hours)
- Two English courses at the 200-level and/or above (6 credit hours)
- Three additional upper-level courses (300 and above) in History, English, and/or Philosophy OR three related courses on a humanities theme, approved by a liberal studies advisor. (9 credit hours)

BA in Liberal Studies-Humanities - Elementary Teacher Education

Description

The curriculum for this track of the liberal studies degree is designed to provide prospective K-8 teachers a strong academic foundation in the humanities. The curriculum also offers a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences.

Students completing the 120-hour degree will have satisfied the USM Core Curriculum and the Liberal Studies-Humanities major as well as liberal arts courses required for initial K-8 teacher certification. Graduates are eligible for recommendation for K-8 teacher certification in Maine.

Program Requirements

USM Core Curriculum (including pre-internship education courses)(44 credits)

- EYE 108 Culture, Identity and Education (recommended) (3 cr)
- EDU 100 Exploring Teaching (recommended) (3 cr)
- College Writing - ENG 100 (3 cr)
- Cultural Interpretation - ENG 140 or 145 (3 cr)
- Quantitative Reasoning - MAT 120 (4 cr)
- Creative Expression (3 cr)
- Socio-Cultural Analysis - HRD 200: Multicultural Human Development (3 cr)
- Science Exploration - (4 cr)
- Ethical Inquiry - EDU 310 Purpose of Schooling in a Democracy (3 cr)
- Diversity (3 cr)
- International (3 cr)
- Cluster:
  - EDU 305 Foundations of Cultural and Linguistic Diversity (3 cr)
  - SED 335 Students with Exceptionalities in General Education (3 cr)
  - SED 420 Multi-Tiered Systems of Educational Support (3 cr)

Major K-8 Liberal Arts Content Courses (36 credits)

- STH 112 (3 cr)
- Art
• 1 Science with lab (4 cr)
• MAT 131, 231 or 232 (6 cr)
• HTY 101 and 102 (6 cr)*
• 3 additional upper-level courses (300 and above) in History or English approved by a liberal studies advisor. (9 cr)*
• LSH 440: Capstone Experience in the Humanities (3 cr)

Additional requirements for the Elementary Teacher Education program, including academic requirements, professional internship year, declaration and candidacy can be found here:

https://usm.maine.edu/teacher-education/elementary-teacher-education

Course Descriptions

LSH 240 Introducing the Humanities
This course examines the origins, development, and future of the humanities through the texts and methods of the following disciplines: classics, history, literary studies, philosophy, religion and the Arts. Prerequisites: EYE and College Writing. Cr 3.

LSH 340 Topics in the Humanities
Consideration of selected problems, approaches, issues or themes in the humanities. May be repeated for credit. Prerequisite: LSH 240 or permission of the instructor. Cr 3.

LSH 398 Independent Study in the Humanities
The course provides students with an opportunity to design a set of readings and learning objectives on an interdisciplinary topic of interest in the humanities. Students must complete an independent study proposal and obtain permission of a faculty mentor and the program coordinator. Students must meet regularly with the faculty mentor. May be repeated for credit. Prerequisite: LSH 240 or permission of the instructor. Cr 3.

LSH 440 Capstone in the Humanities
This course probes the relationship between humanism and the humanities in the 21st century, the recent crisis of the humanities in higher education, and new directions in digital and global humanities. Prerequisites: LSH 240, and senior status in a humanities major or permission of the instructor. Cr 3.
Music Overview

Director: Alan Kaschub, Corthell Hall, Gorham

Professors: Kargul, M.Kaschub, Lehmann, Oberholtzer, Parchman, Sonenberg; Assistant Professors: Blanco, Dosman; Lecturer: Mahai-Zoeter; Professor Emeriti: Fithian, Martin, Russell; Instructors: Antonacos, Reichert, Spencer; Adjunct Faculty: Ayan, Burns, Davis, Kissack, Williamson, Wilkinson

Artist Faculty Piano: Laura Kargul; Organ: Ray Cornils; Voice: Ellen Chickering, Christina Astrachan, Mary Bastoni, David Goullet, Jenna Guiggey, Judith James, Mariana Mihai-Zoeter, Elisabeth Marshall, Violin: Robert Lehmann, Ferdinand Liva; Viola: Kimberly Lehmann, Robert Lehmann; Cello: William Rounds; Bass: Bronislaw Suchanek; Flute: Krysia Tripp; Oboe: Neil Boyer; Clarinet: Thomas Parchman; Saxophone: Timothy O'Dell, Barry Saunders, Bill Street; Bassoon: Ardith Keef, Wren Saunders; Trumpet: Betty Rines; Horn: John Boden; Trombone: Brian Diehl, Mark Manduca; Euphonium: Joseph Wilson; Tuba: Joseph Wilson; Percussion: Nancy Smith; Harp: Jara Goodrich; Classical Guitar: Keith Crook; Jazz Guitar: Gary Wittner; Jazz Bass: Bronislaw Suchanek; Jazz Drums: Les Harris, Jr.; Jazz Piano: Chris Klaxton; Jazz Trumpet: Chris Oberholtzer; Jazz Trumpet: Chris Klaxton; Jazz Voice: Taylor O'Donnell; Musical Theater Coaching: Edward Reichert

The primary mission of the School of Music of the University of Southern Maine is to prepare musicians for careers in teaching, performing, and related fields. In addition, the school provides support for music education throughout the state of Maine and New England; it actively participates in a mutually supportive relationship with the professional arts community; and it guides present and future audiences toward greater understanding of and appreciation for many different styles of music.

The School presents more than 100 performances and events each year featuring faculty, guest artists, and students.

The School of Music offers: a) courses and performance opportunities for all USM students, b) professional degrees in music education and performance, c) a liberal arts degree in music, d) a minor in music, and e) master's degrees and certificate programs (see the USM graduate catalog).

Students are accepted as undergraduate music majors into one of the following baccalaureate degree programs:

- Bachelor of Arts in Music, a liberal arts degree with a major in music;
- Bachelor of Music in Music Education, a professional degree in preparation for teacher certification in music K-12;
- Bachelor of Music in Composition, a professional degree with intensive study in composition;
- Bachelor of Music in Performance, a professional degree with intensive study in voice or orchestral/band instrument or piano, organ, or guitar performance;
- Bachelor of Music in Performance–Jazz Studies, a professional degree with intensive study in jazz and classical performance;
- Bachelor of Music in Performance–Musical Theater, a professional degree with intensive study in music and musical theater performance, including training in acting and dance (offered in conjunction with the Department of Theatre.); and
- Bachelor of Music in Performance–Piano Pedagogy, a professional degree with intensive study in piano teaching.

Admission Requirements

Admission to degree programs in music is based on the following criteria:

- performance audition;
- test of aural comprehension, rhythmic recitation, and sight singing; and
- diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures.

Applicants in music education will also have an interview. Applicants in musical theater will perform a two-minute monologue and execute a simple movement combination. Applicants in composition will submit recent compositions for portfolio review in addition to a performance audition on an instrument of their choice.

The audition committee will review each auditionee's complete application to USM, including high school records and recommendations.

Students may apply to the director of the School for advanced placement in music courses, which may be granted through portfolio review or special examination.

Transfer students
At the time of first registration in the School of Music, a transfer student's transcript will be evaluated. Based upon that evaluation, the student will be held responsible for completing a certain number of semesters of MUS 442 (Recital Class) and major ensemble requirements, regardless of whether the student continues on a full-time or part-time basis.

For music performance and music education majors, the appropriate jury level will be established through a jury held by the end of the student's first semester of study at USM. Students in the Bachelor of Arts and Bachelor of Music Composition programs must pass a juried proficiency exam in their applied area of study.

**School Policies and Standards**

**Performance juries**

Students perform for juries according to the following schedule:

- **Music Education majors:** At the end of each academic year
- **Music Performance majors:** At the end of each semester
- **Bachelor of Arts and Composition majors:** Proficiency must be met before graduation

The jury panel will determine the level of performance, grade the performance pass/fail, and submit a written evaluation that will be included in the student's file.

Students who fail the jury will be placed on probation. Students who fail two consecutive juries will be dismissed from the program. Students are required to perform at the appropriate level of competence as established by the music faculty; they may perform required recitals only after attaining appropriate jury levels.

**Grading Standards**

Students must earn grades of C- or better in all courses that count toward fulfillment of major requirements. Grades of D and F do not fulfill prerequisite requirements. No course may be repeated more than once. Students who fail in the second attempt to pass a course with a grade of C- or better will be dismissed from the program.

The minimum cumulative grade point average for admission to junior- and senior-level music major courses is 2.25 for the Bachelor of Music in Performance and Bachelor of Arts degrees; it is 2.75 for students pursuing the Bachelor of Music in Music Education degree. Additional requirements for admission to upper-division music education studies are enumerated in the Bachelor of Music in Music Education degree description.

Students who do not meet academic or applied music standards will be placed on probation and may be dismissed if by the end of the following semester they do not meet these standards. Students will be placed on probation or dismissed by the director of the School when they do not meet the standards of the School of Music. While on probation, students should carry a maximum of a 14-hour credit load. Students who have been dismissed may not enroll in music major courses, but may re-audition after one semester.

**Applied Music**

Students other than music majors and minors will be accommodated for applied music (private lessons) if a teacher's time is available and will be subject to a fee in addition to the University tuition fee.

An applied music fee will be charged for all applied music (private lessons) and chamber music in addition to course tuition. Private lesson fees for music majors and minors are subsidized by the University; fees for other USM students are unsubsidized.

For a music major, the University will subsidize the fee for up to eight semesters of required lessons. In the case of transfer students, a determination of the number of semesters of subsidized lessons will be made at the time of matriculation. 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.

Students registering for applied music must report to the director of the School for assignment to an applied music teacher and scheduling of lessons.

A chamber music fee will be charged to each person for each enrollment in coached chamber music.

**Music Core Requirements**

To be considered a music major in good standing and to be eligible for applied music subsidies, a student must be making reasonable progress toward the completion of a music degree. Initially, this will be interpreted to mean consistent progress toward completion of the music core and compliance with all other School requirements.
Each student enrolled as a major in a music degree program will take a prescribed course or sequence of courses in the following areas except where noted below:

**Music Theory and Aural Skills**

- Music Theory and Aural Skills 1 through 4, during the first four semesters of study; some degree programs require further study in music theory.

**Music History**

- Multi-Cultural Perspectives of American Popular Music and Jazz
- Music History Survey 1
- Music History Survey 2

Typically taken continuously from the second through fourth semesters of study; some degree programs require further study in music history.

**Functional Piano/Keyboard Skills**

- Piano Class 1-4
- Jazz studies concentration students take Jazz Piano 1 and 2 in lieu of Piano Class 3 and 4. Bachelor of Arts students may exercise this same option.
- Piano and organ majors have special requirements—see individual program descriptions; some degree programs require further study in keyboard skills.

**Conducting**

- Basic Conducting (music performance, except jazz studies concentration)
- Choral Conducting and Instrumental Conducting (music education)
- Jazz studies majors fulfill this requirement through Jazz Pedagogy
- Bachelor of Arts students are not required to take a conducting course.

**Concert Attendance Policy**

All music majors are required to attend a number of concerts and recitals each semester in order to maintain good standing in the School. Failure to meet the requirements of this policy can result in probation and suspension. The policy is administered through MUS 442 Recital Class.

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**BA in Music**

**Description**

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 arts 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.

**Program Requirements**

The minimum number of credits required for the degree is 120.

**Popular Music and Jazz**

Bachelor of Arts students must achieve first-year proficiency in one foreign language. This may be achieved by examination for no academic credit.

<table>
<thead>
<tr>
<th>Music CORE</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills (16)</td>
<td></td>
</tr>
<tr>
<td>MUT 100 Music Theory and Aural Skills 1</td>
<td>4</td>
</tr>
</tbody>
</table>
Music History (12)
  MUH 105 Multi-Cultural Perspectives of American Popular Music 3
  MUH 222 Music History Survey 1 3
  MUH 223 Music History Survey 2 3
One of the following courses: 3
  MUH 206 History of Jazz
  MUH 220 Twentieth/Twenty-first century Music History
  MUH 300 Topics in Music History
  MUH 321 Classical/Romantic Music History
  MUH 325 The History of Musical Theatre in America

Functional Piano (4)
  MUS 150 Piano Class 1 1
  MUS 151 Piano Class 2 1
  MUS 250 Piano Class 3 1
  or MUS 252 Jazz Piano Class 1 1
  MUS 251 Piano Class 4 1
  or MUS 253 Jazz Piano Class 2 1

Applied Music (4)
  Private Lessons (4 semesters +) 4
  4 credits of private lessons required
  up to 12 additional credits may be taken as electives
  MUS 442 Recital Class (8 semesters) 0

The University will subsidize up to a total of 16 credit hours of applied music lessons for the B.A. student. Bachelor of Arts students must pass a juried proficiency examination in their applied area; this exam will be graded pass/fail.

Ensembles (4)
  8 semesters of ensemble; may include chamber music. Additional 4
  credits may be taken as electives.

Additional Music Classes - 21 credits
  MUT 330 Form and Analysis 3
  MUT 332 Counterpoint 3
  MUS 480 Bibliography and Research in Music 3
  MUP 490 Senior Recital / Seminar 3

  Music Electives, may include applied music and/or ensemble credits 9

Additional Non-music Electives, including language study 30

Bachelor of Arts students must achieve first-year proficiency in one foreign language. This may be achieved by examination for no academic credit.

Admission Information

Admission to all degree programs in music is based on the following criteria:

1. Performance audition on the applicant's major instrument
2. Tests of aural comprehension, rhythmic recitation, and sight singing administered individually by a member of the staff
3. A diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures

Audition Information
BM in Composition

Description

This degree concentration is designed for those who wish to prepare for a career in music composition and those who plan to do graduate work in composition. The program aims to instill students with a thorough understanding of both traditional and contemporary compositional tools and prompts students to engage in the discourse surrounding the making of new music in our society. Private lessons, participation in the USM Composers Ensemble, regular composition and performance of new works, and classes in counterpoint and analysis are emphasized.

Program Requirements

The minimum number of credits required for the degree is 120.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Music Theory and Aural Skills 22 credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MUT 100 Music Theory and Aural Skills 1</td>
</tr>
<tr>
<td></td>
<td>MUT 101 Music Theory and Aural Skills 2</td>
</tr>
<tr>
<td></td>
<td>MUT 200 Music Theory and Aural Skills 3</td>
</tr>
<tr>
<td></td>
<td>MUT 201 Music Theory and Aural Skills 4</td>
</tr>
<tr>
<td></td>
<td>MUT 330 Form and Analysis</td>
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<tr>
<td></td>
<td>MUT 332 Counterpoint</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Music History 12 credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>MUH 105 Multi-Cultural Perspectives of American Popular Music and Jazz</td>
</tr>
<tr>
<td></td>
<td>MUH 222 Music History Survey 1</td>
</tr>
<tr>
<td></td>
<td>MUH 223 Music History Survey 2</td>
</tr>
<tr>
<td></td>
<td>MUH 220 Twentieth/Twenty-First Century Music</td>
</tr>
</tbody>
</table>

or MUH 320 Seminar in Music History

<table>
<thead>
<tr>
<th>Credits</th>
<th>Functional Piano 4 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MUS 150 Piano Class 1</td>
</tr>
<tr>
<td></td>
<td>MUS 151 Piano Class 2</td>
</tr>
<tr>
<td></td>
<td>MUS 250 Piano Class 3</td>
</tr>
<tr>
<td></td>
<td>MUS 251 Piano Class 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Conducting 4 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MUS 244 Basic Conducting</td>
</tr>
<tr>
<td></td>
<td>MUE 252 Choral Conducting or MUE 313 Instrumental Conducting</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credits</th>
<th>Applied Music 27 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MUP 203 Composition (6 semesters)</td>
</tr>
<tr>
<td></td>
<td>MUP 202 (3 semesters)</td>
</tr>
<tr>
<td></td>
<td>Applied Lessons on choice of instrument</td>
</tr>
<tr>
<td></td>
<td>MUS 442 Recital Class (8 semesters)</td>
</tr>
<tr>
<td></td>
<td>(must have compositions performed in 4 semesters)</td>
</tr>
<tr>
<td></td>
<td>MUP 490 Capstone: Senior Recital</td>
</tr>
</tbody>
</table>

Bachelor of Music Composition students must pass a juried proficiency examination in their applied area; this exam will be graded pass/fail.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Ensemble Requirements 5 credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Major Ensemble (2 semesters)</td>
</tr>
<tr>
<td></td>
<td>University Chorale, Chamber Singers, Concert Band or University Orchestra</td>
</tr>
<tr>
<td></td>
<td>MUS 406 Composer's Ensemble (7 semesters)</td>
</tr>
</tbody>
</table>
MUS 406 Chamber Music .5

Additional Courses
MUS 271 Principles of Digital Audio and Music Production 3
Music Electives 9
General Electives 3
University Core Curriculum and Non-Music Electives 34

Admission Information

Admission to all degree programs in music is based on the following criteria:

1. Performance audition on the applicant's major instrument and a portfolio review of compositions.
2. Tests of aural comprehension, rhythmic recitation, and sight singing administered individually by a member of the staff.
3. A diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures.

Audition Information

BM in Music Education

Description

This degree program prepares students for careers in PK-12 school-based music teaching. Students completing this course of study are prepared to apply for state teacher certification in Maine and other states. Certification applications must be accompanied by scores from the Praxis I national teacher exam that must be successfully completed during the sophomore year, and the Praxis II exam that must be taken prior to Professional Internship. Students are advised to meet with their advisor if they plan to seek teacher certification in states other than Maine.

As the field of music education requires a broad range of skills and competencies, students are required to complete substantial work in music theory, ear training, musicology, applied music, conducting, chamber music and ensembles, in addition to music education methods courses, field work and teaching internships. The music education curriculum reflects the full range of knowledge and skills required in current practice. All students complete a nearly identical curriculum with adjustments made to reflect the unique requirements of individualized areas of applied study (vocal, instrumental, piano, or guitar) identified during the audition process.

Program Requirements

All students are reminded that, in addition to meeting School requirements for a major leading to a baccalaureate degree, they must also meet the University's General Education requirements. The minimum number of credits required for the degree is 120.

Music CORE (33 credits) Credits
Music Theory and Aural Skills (16 credits)
   MUT 100 Music Theory and Aural Skills 1 4
   MUT 101 Music Theory and Aural Skills 2 4
   MUT 200 Music Theory and Aural Skills 3 4
   MUT 201 Music Theory and Aural Skills 4 4
Music History (9 credits)
   MUH 105 Multi-Cultural Perspectives of American Popular Music and Jazz 3
   MUH 222 Music History Survey 1 3
   MUH 223 Music History Survey 2 3
Functional Piano (4 credits) (keyboard players have substitute courses; see below)
   MUS 150 Piano Class 1 1
MUS 151 Piano Class 2 1
MUS 250 Piano Class 3 1
MUS 251 Piano Class 4 1
Conducting (4 credits)
MUE 252 Choral Conducting 2
MUE 313 Instrumental Conducting 2

Applied Music (14 credits)
Classical performance in brass, guitar, percussion, piano, strings, voice, woodwinds
(7 semesters)
Composition (7 semesters)
Jazz performance - bass, drums, guitar, saxophone, trumpet and trombone
Semesters 1 & 2 - classical focus
Semesters 3 - 7 - jazz focus
Jazz performance - piano
Semesters 1 & 2 - classical focus
Semesters 3 & 4 - 2 cr. classical focus and 1 cr. jazz focus each semester
Semesters 5 - 7 - jazz focus
Jazz performance - voice
Semesters 1 & 2 - classical focus
Semesters 3 & 4 - 2 cr. classical focus and 1 cr. jazz focus each semester
Semesters 5 - 7 - jazz focus

MUP 491 Senior Recital 0
MUS 442 Recital Class (7 semesters) 0

Ensembles (7 credits)
Requirements for students studying applied classical performance in brass, percussion, strings, or woodwinds
Concert Band or Orchestra (7 semesters) 3.5
Chorale or Chamber Singers (4 semesters) 2
Chamber music (1 semester) 0.5
Composer's Ensemble (1 semester) 0.5
Jazz large or chamber ensemble (1 semester) 0.5

Requirements for students studying applied classical performance in voice:
Chorale or Chamber Singers (7 semesters) 3.5
Concert Band or Orchestra (4 semesters)* 2
Chamber music (1 semester) 0.5
Composer's Ensemble (1 semester) 0.5
Jazz large or chamber ensemble (1 semester) 0.5

Requirements for students studying applied classical performance piano
Chorale or Chamber Singers (minimum of 4 semesters)* 2
Concert Band or Orchestra (minimum of 4 semesters)* 2
Chamber music (1 semester) 0.5
Composer's Ensemble (1 semester) 0.5
Jazz large or chamber ensemble (1 semester) 0.5

*One additional semester in any ensemble: chorale, chamber singers, 0.5 cr. concert band or orchestra

Additional Requirements
MUS 360 Advanced Keyboard Skills 2
MUS 372 Pedagogy of the Major Instrument (Piano) 2
MUS 452 Accompanying (2 semesters) 1

Requirements for students studying applied classical performance guitar:
Chorale or Chamber Singers (minimum of 4 semesters)* 2
Concert Band or Orchestra (minimum of 4 semesters)* 2
*One additional semester in any ensemble: chorale, chamber singers, 0.5
concert band, or orchestra

Chamber music (1 semester) 0.5
Composer's Ensemble (1 semester) 0.5
Jazz large or chamber ensemble (1 semester) 0.5

Requirements for students studying applied composition
Composer's Ensemble (7 semesters) 3.5
Chorale or Chamber Singers (2 semesters) 1
Concert Band or Orchestra (2 semesters)* 1
Chamber music (1 semester) 0.5
Jazz large or chamber ensemble (1 semester) 0.5

Requirements for students studying applied jazz
Jazz Ensembles (7 semesters) 3.5
Chorale or Chamber Singers (2 semesters) 1
Concert Band or Orchestra (2 semesters)* 1
Chamber music (1 semester) 0.5
Composer's Ensemble (1 semester) 0.5
Large Jazz ensemble (1 semester) 0.5

*Note: Students without instrumental experience may substitute MUE 112 Percussion Techniques for one semester of Concert Band or Orchestra. Students are expected to audition for Concert Band or Orchestra each semester and may be placed in the percussion section of either ensemble following successful completion of MUE 112 and successful audition. Guitarists will complete three additional semesters in any ensemble: chorale, chamber singers, concert band, or orchestra.

Additional Music Courses (44.5 credits)
MUE 110 ProSeminar I 1
MUE 150 ProSeminar II 1
MUE 210 ProSeminar III 1
MUE 250 ProSeminar IV 1
MUE 310 ProSeminar V/Teaching Internship 3
MUE 350 ProSeminar VI 1
MUE 410 ProSeminar VII 1
MUE 450 Professional Internship 8
MUE 451 Professional Portfolio (see above; should count in general education)
MUE 111 Professional Foundation for Music Education 2
MUE 112 Percussion Techniques 1
MUE 211 Teaching Creative and Critical Listening PK-12 2
MUE 251 Teaching Vocal Music PK-12 3
MUE 253 Brass Techniques 1
MUE 311 Research and Evaluation in Music Education 2
MUE 312 Teaching Instrumental Music PK-12 2
MUE 314 Guitar Techniques 1
MUE 351 Teaching Improvisation in Music PK-12 2
MUE 352 String Techniques 1
MUE 353 Woodwind Techniques 1
MUE 411 Teaching Music Composition PK-12 2
Chamber Music (1 semester) 0.5
See Ensembles, above
Jazz Ensemble (1 semester) 0.5
See Ensembles, above
Composer's Ensemble (1 semester) 0.5
See Ensembles, above
Music Electives 2

Additional Non-music Courses (6 credits)
HRD/SBS 200 Multicultural Human Development 3
SED 335 Students with Exceptionalities in General Education 3
Admission to Upper Division in Music Education

Upper division music courses are typically designated by course numbers in the 300 or 400 range.

In order to enroll in upper division music courses, a music student must:

- Earn a grade of C- or better in all MUS courses.*
- Earn a grade of B- or better in all MUE and MUP courses.*
- Earn a Level II on the applied music jury.
- Pass Praxis I.
- Successfully complete EYE (if required), College Writing, and Quantitative Reasoning Core courses.
- Earn a cumulative GPA of 2.75 or better.

*Note: These standards are in effect for all MUS, MUE, MUH, MUT, and MUP courses in both the lower and upper divisions of the program.

In March of the sophomore year students will complete the application for admission to Upper Division. This application and review are part of the advising process within ProSeminar IV. Students who fail to meet the above requirements may not enroll in upper division courses.

Senior recital requirements: 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 chamber music. Normally the program will be shared with another MUE senior or MUP junior recital. Programs exceeding 30 minutes of music require the special approval of the faculty. A student may not perform the required recital during the semester of Professional Internship.

The Professional Internship

This is a field-based student teaching experience. Students are placed with music educator mentors on a full-time basis in order to gain multiple guided and independent teaching experiences. In preparation for the Internship, students in music education must:

- Successfully complete all required coursework prior to the Internship;
- Successfully complete all performance juries and the recital prior to the Internship;
- Have a cumulative grade point average of 2.75 or above;
- Submit passing scores on the Praxis I Pre-Professional Skills test (must be completed by the sophomore year);
- Have taken the Praxis II Music content exam; and
- Submit proof of successful completion of Maine Department of Education required fingerprinting and background check.

The Capstone project for Music Education

This is the Professional Portfolio. The Professional Portfolio provides students with an opportunity to reflect upon their own growth and development in the teaching profession. The portfolio will include materials that demonstrate fulfillment of the USM Teacher Certification Standards. Upon completion, the Professional Portfolio is a document suitable for presentation and future reference.

The Professional Education Council, comprised of deans, department chairs, faculty, and school representatives from all programs offering initial teacher preparation, is the governing body for program review and evaluation for all initial-level teacher education programs at USM.

For the purposes of field placements in schools during the educational cluster and internship year, students are required to complete and show documentation of the fingerprinting process outlined by the Maine Department of Education: [http://www.maine.gov/doe/cert/fingerprinting/](http://www.maine.gov/doe/cert/fingerprinting/)

All students must formally declare their entry into a teacher certification concentration by completing the declaration procedures found on the Office of Educator Preparation web site at [http://usm.maine.edu/educator-preparation](http://usm.maine.edu/educator-preparation). Passing Praxis I scores, subscription to Tk20, and two recommendation forms are necessary to complete the declaration process.

Tk20 Subscription:

All undergraduate and graduate students who matriculate into an Educator Preparation program or pathway in USM summer 2013 or later and are accepted as a candidate for their internship year are required to subscribe to the Tk20 online data management system once being accepted as a teacher education candidate and prior to their internship year. The subscription allows students to use the system for assessment, advisement, field-experience, and career portfolio management. The subscription fee covers some of the expenses related to the administration and assessment of the program. For loan purposes, it will be eligible for consideration as part of costs. The subscription is a one-time payment and must be made by each student after they have passed their candidacy process and before the first semester of their internship year. Subscription instructions are posted on the Office of Educator Preparation web site: [http://usm.maine.edu/educator-preparation](http://usm.maine.edu/educator-preparation)
Please note Professional Education Council Policy: In order for USM’s Education Preparation Unit program completers to be recommended by the institution to the state for certification or licensure, the candidate must provide evidence of meeting all certification requirements including proficiency on the standards relevant to his/her state approved professional program and this evidence must be compiled and assessed within the context of the Unit’s data management system (i.e., Tk20).

**Admission Information**

Admission to the Music Education degree is based on the following criteria:

- a. Performance audition on the applicant's major instrument.
- b. Tests of aural comprehension, rhythmic recitation, and sight singing administered individually by a member of the staff.
- c. A diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures.
- d. A brief interview with the Music Education faculty.

**Audition Information**

**BM in Music Performance**

**Description**

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.

**Program Requirements**

The minimum number of credits required for the degree is 120.

<table>
<thead>
<tr>
<th>Music CORE 30-34 credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Music Theory and Aural Skills (16)</strong></td>
<td></td>
</tr>
<tr>
<td>MUT 100 Music Theory and Aural Skills 1</td>
<td>4</td>
</tr>
<tr>
<td>MUT 101 Music Theory and Aural Skills 2</td>
<td>4</td>
</tr>
<tr>
<td>MUT 200 Music Theory and Aural Skills 3</td>
<td>4</td>
</tr>
<tr>
<td>MUT 201 Music Theory and Aural Skills 4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Music History (12)</strong></td>
<td></td>
</tr>
<tr>
<td>MUH 105 Multi-Cultural Perspectives of American Popular Music and Jazz</td>
<td></td>
</tr>
<tr>
<td>MUH 222 Music History Survey 1</td>
<td>3</td>
</tr>
<tr>
<td>MUH 223 Music History Survey 2</td>
<td>3</td>
</tr>
<tr>
<td>One of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>MUH 206 History of Jazz</td>
<td></td>
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<tr>
<td>MUH 220 Twentieth/TwentyFirst Century Music</td>
<td></td>
</tr>
<tr>
<td>MUH 300 Topics in Music History</td>
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<tr>
<td>MUH 321 Classical/Romantic Music</td>
<td></td>
</tr>
<tr>
<td>MUH 325 The History of Musical Theatre in America</td>
<td></td>
</tr>
</tbody>
</table>

| Functional Piano (4) (not required for piano and organ majors) |         |
| MUS 150 Piano Class 1 | 1       |
| MUS 151 Piano Class 2 | 1       |
| MUS 250 Piano Class 3 | 1       |
| MUS 251 Piano Class 4 | 1       |

| Conducting (2) |         |
### Applied Music 27 credits

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Private Lessons (8 semesters)</td>
<td>24</td>
</tr>
<tr>
<td>MUP 390 Junior Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUP 490 Capstone: Senior Recital / Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MUS 442 Recital Class (8 semesters)</td>
<td>0</td>
</tr>
</tbody>
</table>

Students in Vocal Performance will divide their 24 credit hours of private lessons every semester between classical applied studies and classical coaching by taking a 2-credit applied lesson and a 1-credit vocal coaching.

Performance majors must complete satisfactorily a 30 minute recital in the junior year and a 50 minute recital in the senior year. The junior recital, 30 minutes of music, must include at least 25 minutes of solo performance. 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.

### Ensemble Requirements

#### Vocal Performance

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Ensemble</td>
<td>4</td>
</tr>
<tr>
<td>University Chorale or Chamber Singers</td>
<td></td>
</tr>
<tr>
<td>MUS 404 Opera Workshop</td>
<td>3</td>
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</table>

#### Band / Orchestra Instrument Performance

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Ensemble</td>
<td>4</td>
</tr>
<tr>
<td>University Concert Band or Orchestra</td>
<td></td>
</tr>
<tr>
<td>MUS 406 Chamber Music</td>
<td>2</td>
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</table>

#### Piano Performance

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 406 Chamber Music</td>
<td>2</td>
</tr>
<tr>
<td>MUS 406, MUS 452 or keyboard in a conducted ensemble</td>
<td>4</td>
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</tbody>
</table>

#### Organ Performance

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 401 University Chorale (4 semesters)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 406 Chamber Music</td>
<td></td>
</tr>
<tr>
<td>(2 semesters; one completed playing continuo)</td>
<td>1</td>
</tr>
<tr>
<td>MUS 452 Accompanying or keyboard in a conducted ensemble</td>
<td>1</td>
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</table>

#### Guitar Performance

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 406 Chamber Music</td>
<td></td>
</tr>
<tr>
<td>playing guitar in a conducted ensemble</td>
<td>6</td>
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</table>

### Area specific Music Course Requirements 13 - 27 Credits

#### Vocal Performance

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUS 256 / 257 Diction 1 and 2</td>
<td>4</td>
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<tr>
<td>MUS 321 Literature of the Major Instrument</td>
<td>2</td>
</tr>
<tr>
<td>MUT 330 Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUS 372 Pedagogy of the Major Instrument</td>
<td>2</td>
</tr>
</tbody>
</table>

Voice Majors only: Non-music course requirements: 16

Voice majors must meet a minimum proficiency in Italian and either French or German either by exam or through completion of the second semester of the basic course.
- Italian 1 & 2 8 cr
- French or German 1 & 2 8 cr

#### Band or Orchestra Instrument Performance

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 321 Literature of the Major Instrument</td>
<td>2</td>
</tr>
<tr>
<td>MUT 330 Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUT 332 Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>MUS 372 Pedagogy of the Major Instrument</td>
<td>2</td>
</tr>
</tbody>
</table>
Piano Performance
- MUS 321 Literature of the Major Instrument Piano 1 2
- MUS 322 Literature of the Major Instrument Piano 2 2
- MUT 330 Form and Analysis 3
- MUT 332 Counterpoint 3
- MUS 360/361 Advanced Keyboard Skills 1 & 2 4
- MUS 372 Pedagogy of the Major Instrument Piano 1 2
- MUS 373 Pedagogy of the Major Instrument Piano 2 2

Organ Performance
- MUS 310/311 Organ Improvisation 1 & 2 2
- MUS 321 Literature of the Major Instrument Organ 1 2
- MUS 323 Literature of the Major Instrument Organ 2 2
- MUT 330 Form and Analysis 3
- MUT 332 Counterpoint 3
- MUS 372 Pedagogy of the Major Instrument 2

Guitar Performance
- MUS 321 Literature of the Major Instrument 2
- MUT 330 Form and Analysis 3
- MUT 332 Counterpoint 3
- MUS 372 Pedagogy of the Major Instrument 2

Elective Credits 0 - 16 credits

Vocal Performance
- Music 0
- Non-Music 0

Band or Orchestra Instrument Performance
- Music 5
- Non-Music 9

Piano Performance
- Music 4
- Non-Music 6

Organ Performance
- Music 7
- Non-Music 9

Guitar Performance
- Music 7
- Non-Music 9

Admission Information

Admission to all degree programs in music is based on the following criteria:

1. Performance audition on the applicant's major instrument.
2. Tests of aural comprehension, rhythmic recitation, and sight singing administered individually by a member of the staff.
3. A diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures.

Audition Information

BM in Performance - Jazz Studies

Description
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.

**Program Requirements**

The minimum number of credits required for the degree is 120.

<table>
<thead>
<tr>
<th>Music CORE - 28-32 credits</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills (16)</td>
<td></td>
</tr>
<tr>
<td>MUT 100 Music Theory and Aural Skills 1</td>
<td>4</td>
</tr>
<tr>
<td>MUT 101 Music Theory and Aural Skills 2</td>
<td>4</td>
</tr>
<tr>
<td>MUT 200 Music Theory and Aural Skills 3</td>
<td>4</td>
</tr>
<tr>
<td>MUT 201 Music Theory and Aural Skills 4</td>
<td>4</td>
</tr>
<tr>
<td>Music History (12)</td>
<td></td>
</tr>
<tr>
<td>MUH 105 Multi-Cultural Perspectives of American Popular Music and Jazz</td>
<td>3</td>
</tr>
<tr>
<td>MUH 222 Music History Survey 1</td>
<td>3</td>
</tr>
<tr>
<td>MUH 223 Music History Survey 2</td>
<td>3</td>
</tr>
<tr>
<td>MUH 206 Jazz History</td>
<td>3</td>
</tr>
<tr>
<td>Functional Piano (4) not required for pianists</td>
<td></td>
</tr>
<tr>
<td>MUS 150 Piano Class 1</td>
<td>1</td>
</tr>
<tr>
<td>MUS 151 Piano Class 2</td>
<td>1</td>
</tr>
<tr>
<td>MUS 252 Jazz Piano Class 1</td>
<td>1</td>
</tr>
<tr>
<td>MUS 253 Jazz Piano Class 2</td>
<td>1</td>
</tr>
<tr>
<td>Applied Music - 27 credits</td>
<td></td>
</tr>
<tr>
<td>Private Lessons (8 semesters)</td>
<td>24</td>
</tr>
<tr>
<td>MUP 390 Junior Recital</td>
<td>0</td>
</tr>
<tr>
<td>MUP 490 Capstone: Senior Recital / Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MUS 442 Recital Class (8 semesters)</td>
<td>0</td>
</tr>
</tbody>
</table>

Students in the jazz concentration will divide their 24 credit hours of applied music equally between classical applied studies and jazz applied studies by taking either a 2-credit or a 1-credit lesson in each area every semester.

Students in the jazz concentration must satisfactorily complete a half recital in the junior year and a full recital in the senior year.

Instrumental jazz students must take a jazz jury each semester and a classical jury during the spring semester. They are expected to pass a level 3 jury in each area prior to giving their Senior Recital.

For instrumentalists, the Junior Recital should consist of 25 minutes of jazz repertoire, and the Senior Recital should consist of 25 minutes of jazz repertoire and 25 minutes of classical repertoire. The jazz repertoire shall demonstrate the student's skills at improvisation, composition, and arranging, and should be chosen under the guidance of their applied jazz instructor.

Vocal jazz students must take a jazz jury every semester and are expected to pass level 3 prior to giving their Senior Recital. They must take a Proficiency Level I classical jury at the end of two semesters of study, and a Proficiency Level II classical jury at the end of four semesters of study. In addition, they must perform at least two classical pieces in Recital Class, MUS 442. The first classical piece will be performed prior to the completion of their sophomore year and the second prior to the completion of their senior year.

After the successful completion of the classical vocal Proficiency Level II examination, students in the vocal jazz concentration must satisfactorily complete a half jazz recital in their junior year and a full jazz recital in their senior year. The jazz repertoire shall demonstrate the student's skills at improvisation, composition, and arranging. It should be chosen under the guidance of their applied jazz instructor.

Ensembles - 8 credits
Major Ensemble, non-Jazz (4 semesters) 2
   University Chorale, Chamber Singers, Concert Band
   or Symphony Orchestra
Large Jazz Ensemble (8 semesters) 4
Chamber Jazz Ensemble (4 semesters) 2

Students should take a minimum of .5 credits of the appropriate section of MUS 406 Chamber Music - Jazz during each of their first two academic years. Students who are not selected for MUS 407 Jazz Ensemble may substitute additional credits of MUS 406 Chamber Music - Jazz with permission of the director of jazz studies. Guitarists and pianists may fulfill the Major Ensemble requirement by taking MUS 452 Accompanying or any small ensemble outside the jazz idiom.

Additional Music Courses - 17 credits
   MUS 337 Jazz Arranging 3
   MUS 380 Jazz Improvisation 1 3
   MUS 381 Jazz Improvisation 2 3
   MUS 374 Jazz Pedagogy 2
   Music electives 6

Additional Non-music courses - 9 credits
   One approved course from the School of Business 3
   Non-music electives 6

Admission Information

Admission to the jazz degree concentration in music is based on the following criteria:

a. Performance audition on the applicant's major instrument. For most instruments, one selection should be from the jazz idiom and one from the classical genre. While performing jazz selections, the candidate should demonstrate their jazz improvisation abilities.

b. Tests of aural comprehension, rhythmic recitation, and sight singing administered individually by a member of the staff.

c. A diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures.

Audition Information

BM in Performance - Musical Theatre

Description

This degree program, offered in collaboration with the Theatre Department, is designed for those who wish to pursue a career in musical theatre performance. The program aims to instill a thorough understanding of music and theatre and their relationship to contemporary society. Private lessons, solo and ensemble performance, and the theatrical training necessary for this discipline are emphasized. A basic understanding of the standards and opportunities for professional performance leads the student to realistic expectations for a career as a performer or teacher.

Program Requirements

The minimum number of credits required for the degree is 120.

Music CORE - 30-34 credits

Music Theory and Aural Skills (16)
   MUT 100 Music Theory and Aural Skills 1 4
   MUT 101 Music Theory and Aural Skills 2 4
Students in the musical theatre concentration will divide their 24-credit hours of applied music equally between classical applied studies and musical theatre coaching by taking either a 2-credit or a 1-credit lesson in each area every semester.

Ensembles - 3.5 credits
- MUS 404 Opera Workshop: Musical Theatre (4 semesters) 2
- MUS 401 Chorale or MUS 405 Chamber Singers (3 semesters) 1.5

Additional Music Courses - 2 credits
- MUS 372 Vocal Pedagogy 2

Additional Theatre Courses - 23 credits
- THE 120 Acting: Stage Movement 3
- THE 220 Acting: Scene Study 3
- THE 321 Acting: Advanced Scene Study
- or
- THE 322 Acting: Contemporary Methods 3
- THE 130, 131, 132, 133 Musical Theatre Workshop 2

(4 semesters)
- THE 139 Makeup 3
- THE 203 Musical Theatre Dance (2 semesters) 6
- THE Performance Elective 3

Students in the musical theatre concentration will be expected to achieve an approved jury level at the end of each semester in order to stay in the program. They must successfully perform two significant roles and one chorus role in an approved music theatre production. Students must successfully complete a crew or backstage assignment; presence is required at all strikes for all productions in which students participate, whether as a crew or cast member.

**Admission Information**

Admission to the Musical Theatre program is based on the following criteria:
Vocal performance audition of two pieces from the Musical Theatre literature, one ballad and one up-tempo piece. The applicant should also be prepared to sing one classical or traditional piece.

a. Performance of a two- to three-minute memorized monologue.
b. Execute a simple movement combination.
c. Tests of aural comprehension, rhythmic recitation, and sight singing administered individually by a member of the staff.
d. A diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures.

Audition Information

BM in Performance - Piano Pedagogy

Description

This degree concentration is for students who wish to prepare for a career in private piano teaching and those who wish to do graduate work in piano pedagogy. The program focuses upon the development of teaching techniques and performance skills. Specific areas of pedagogy study include: methods and materials, child development, learning theory as it pertains to music education, group and individual lesson formats, and business aspects of running a private studio. The program also includes a supervised piano teaching internship during the junior or senior year. A basic understanding of the standards and opportunities for teaching, as well as performance, leads the student to realistic expectations for a career in private piano teaching.

Program Requirements

The minimum number of credits required for the degree is 120.

<table>
<thead>
<tr>
<th>Music CORE (30 credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Theory and Aural Skills (16 credits)</td>
<td></td>
</tr>
<tr>
<td>MUT 100 Music Theory and Aural Skills 1</td>
<td>4</td>
</tr>
<tr>
<td>MUT 101 Music Theory and Aural Skills 2</td>
<td>4</td>
</tr>
<tr>
<td>MUT 200 Music Theory and Aural Skills 3</td>
<td>4</td>
</tr>
<tr>
<td>MUT 201 Music Theory and Aural Skills 4</td>
<td>4</td>
</tr>
</tbody>
</table>

| Music History (12 credits) | |
| MUH 105 Multi-Cultural Perspectives of American | 3 |

| Popular Music and Jazz | |
| MUH 222 Music History Survey 1 | 3 |
| MUH 223 Music History Survey 2 | 3 |
| MUH 321 Classical and Romantic Music or MUH 220 Twentieth / Twenty-first Century Music | 3 |

| Conducting (2 credits) | |
| MUS 244 Basic Conducting | 2 |

| Applied Music (27 credits) | |
| Private Lessons (8 semesters) | 24 |
| MUP 390 Junior Recital | 0 |
| MUP 490 Capstone: Senior Recital / Seminar | 3 |
| MUS 442 Recital Class (8 semesters) | 0 |

Students in the piano pedagogy concentration must play a full 50 minute recital in the senior year, including at least 40 minutes of solo repertoire. The recital should illustrate a range of historical styles.

<p>| Ensembles (4 credits) | |
| University Chorale or Chamber Singers | 0.5 |
| Any conducted ensemble | 0.5 |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 406 Chamber music</td>
<td>2</td>
</tr>
<tr>
<td>MUS 406 Chamber music or MUS 452 Accompanying</td>
<td>1</td>
</tr>
</tbody>
</table>

Additional Music Courses (30 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 372 Pedagogy of the Major Instrument (Piano)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 373 Piano Pedagogy 2</td>
<td>2</td>
</tr>
<tr>
<td>MUS 360 Advanced Keyboard Skills 1</td>
<td>2</td>
</tr>
<tr>
<td>MUS 361 Advanced Keyboard Skills 2</td>
<td>2</td>
</tr>
<tr>
<td>MUS 376 Class Piano Teaching 1</td>
<td>2</td>
</tr>
<tr>
<td>MUS 377 Class Piano Teaching 2</td>
<td>2</td>
</tr>
<tr>
<td>MUS 321 Literature of the Major Instrument (piano)</td>
<td>2</td>
</tr>
<tr>
<td>MUS 322 Piano Literature 2</td>
<td>2</td>
</tr>
<tr>
<td>MUS 378 Practicum in Piano Pedagogy 1</td>
<td>3</td>
</tr>
<tr>
<td>MUS 379 Practicum in Piano Pedagogy 2</td>
<td>3</td>
</tr>
<tr>
<td>MUT 330 Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUT 332 Counterpoint</td>
<td>3</td>
</tr>
<tr>
<td>Applied Music–Jazz Piano</td>
<td>2</td>
</tr>
</tbody>
</table>

Additional Elective Courses (6 credits)

| Electives                                                            | 6       |

Admission Information

Admission to all degree programs in music is based on the following criteria:

a. Performance audition on the applicant's major instrument
b. Tests of aural comprehension, rhythmic recitation, and sight singing administered individually by a member of the staff
c. A diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures

Audition Information

Minor in Music (Bachelor of Arts)

Description

This minor program is designed to provide an opportunity for candidates working toward the bachelor of arts degree who demonstrate interest and ability to continue music studies at the undergraduate level.

Program Requirements

The minor consists of 20 credits to include MUT 100 Music Theory and Aural Skills 1, one of the Music CORE history requirements (MUH 105, MUH 222, or MUH 223) and 13 credits of music electives, excluding MUS 100 and MUS 110. At least six of these credits must be taken at USM.

Applied music fees, to a maximum of eight credit hours, will be subsidized by the University provided that the student demonstrates adequate proficiency.

Admission Information

Admission to degree programs in music including the minor is based on the following criteria:

1. performance audition;
2. a test of aural comprehension, rhythmic recitation, and sight singing; and
3. a diagnostic written test of music fundamentals, including intervals, scales, chords, and key signatures.
Course Descriptions

- Undergraduate
- Graduate

Undergraduate Courses Primarily for Non-Majors

MUP 101 Applied Music
An opportunity to continue at the college level the private study of piano, voice, organ, guitar, or any orchestra or band instrument. 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 102 Applied Music
An opportunity to continue at the college level the private study of piano, voice, organ, guitar, or any orchestra or band instrument. 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 100 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 101 USM Choir: University Chorale
The University Chorale is an auditioned ensemble of mixed voices open to all University students. Rehearsals are designed to enhance musical and vocal development in order to sing expressively and with musical understanding a broad spectrum of choral music from a variety of historical eras and musical cultures. Prerequisites: College writing taken previously or concurrently; audition. Cr. 3.

MUS 102 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 103 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 110 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 202 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.

MUH 203 Music in the Twentieth/Twenty-first 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 Rock and Roll: Subversive or Submissive?
This course surveys popular musical styles from the Pre-Rock era to the early 21st century, from Rhythm and Blues to Hip hop, and examines how this music reflected or rejected societal norms of the times. Prerequisite: College Writing. Cr. 3.

MUS 209 Dynamic Posture and Alignment
Provides students with a practical understanding of anatomy, kinesiology, and biomechanics in order to improve ease and freedom of motion while in a stationary position. This course is designed for musicians, as well as other performers and creative artists, athletes, and computer users. Prerequisite: EYE 118 or permission of instructor. Cr. 2.

Music Performance Groups
Major Ensembles

MUS 400 Southern Maine Symphony 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. Prerequisite: audition. Cr. 0.5.

MUS 401 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 402 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. Prerequisite: 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. Prerequisite: audition. Cr. 0.5.

MUS 405 Chamber Singers
An ensemble of mixed voices selected by audition. The ensemble specializes in a cappella repertoire, notably of the Renaissance era and the 20th century. Prerequisite: audition. 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 ensemble specializing in the study and performance of jazz for large and small groups. Open to all students by audition. Prerequisite: audition. Cr. 0.5.

MUS 408 Wind Ensemble
The Wind Ensemble offers a unique musical experience to its members. The versatility of the Wind Ensemble, based upon the solo performer premise, has established a tradition of performing chamber and large instrumentations, traditional or experimental combinations, and early through contemporary literature. The membership of the Wind Ensemble is selected from Concert Band personnel. Prerequisite: audition. Corequisite: MUS 402. Cr. 0.5.

Small Ensemble

MUS 403 Percussion Ensemble
A percussion ensemble open to all University students through audition. Prerequisite: 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. Prerequisite: audition. 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 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.

Music Performance

MUP 201 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 202 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
performance area in fulfillment of applied music requirements. Restricted to B.M. performance majors. May be repeated for credit. Special fee assessed. Cr. 3.

MUP 390 Recital
Public performance in the area of applied study for junior performance majors. Graded pass/fail. Cr. 0.

MUP 490 Senior Recital / Seminar
This seminar focuses on the final creative project in each student's major applied area. The major portion of the course is the preparation and presentation of a public applied recital or project. The course itself addresses issues of entrepreneurship in music and research in the historical elements of the applied recital/project. Prerequisites: Student must be a graduating senior in performance or bachelor of arts degree program and be eligible to present the applied recital/project in the student's major area. Cr. 3

MUP 491 Recital
Public performance in the area of applied study for music education majors. Graded pass/fail. Prerequisites: Student must be a Music Education Major. Cr. 0.

Music Education

MUE 110 ProSeminar I
Provides a professional community for emerging music educators. Students will complete fieldwork, interact with field specialists and practitioners, study emerging topics and contemporary practices in music education. Students will begin to develop their professional portfolios. Corequisite: MUE 111 Professional Foundations for Music Education. Cr. 1.

MUE 111 Professional Foundations for Music Education
The course will survey the cultural and historical contexts of American music education and the philosophies that underpin its practice. Issues of arts advocacy will also be addressed. Cr. 2.

MUE 112 Percussion Techniques
Students will learn techniques and methods to provide instruction on percussion instruments to students in grades 4-12. Corequisite MUE 110 ProSeminar 1. Cr. 1.

MUE 150 ProSeminar II
Provides a professional community for emerging music educators. Students will explore the uses of technology in education through fieldwork and other experiences. Students will continue the development of their teaching portfolios. Prerequisite: MUE 110 ProSeminar I; MUE 111 Professional Foundation for Music Education. Cr. 1.

MUE 150 ProSeminar III
Provides a professional community for emerging music educators. Fieldwork will focus on the application of instructional strategies for guiding critical and creative music listening in a variety of educational contexts. Prerequisite: MUE 150 ProSeminar II. Corequisite: MUE 211 Teaching Creative and Critical Listening PK-12. Cr. 1.

MUE 211 Teaching and Creative and Critical Listening PK-12
Application of music education methods and contemporary learning theory to music education curricula. An investigation of standards, teaching for musical understanding and the design of lesson plans and assessment strategies will empower students to define and demonstrate a comprehensive pedagogical approach as music educators. Prerequisite: MUE 111; Corequisite: MUE 210. Cr. 2.

MUE 250 ProSeminar IV
Provides a professional community for emerging music educators. Fieldwork will focus on the application of classroom and rehearsal strategies for developing young vocal musicians. Prerequisite: MUE 210 ProSeminar III. Corequisite: MUE 251 Teaching Vocal Music PK-12. Cr 1.

MUE 251 Teaching Vocal Music PK-12
Students will develop personal singing skills as they learn to engage PK-12 singers in the study of vocal music. Students will study vocal pedagogy and group vocal techniques. Students will create PK-12 curriculum and assessment materials and learn how to organize and administer a school- based vocal music program. Prerequisite: MUE 210 ProSeminar III. Corequisite: MUE 250 ProSeminar IV. Cr. 3.

MUE 252 Choral Conducting
Introduction to conducting gestures and development of non-verbal gestures through choral conducting, including score analysis and rehearsal techniques. Prerequisite MUT 200 (Music Theory and Aural Skills III) Cr. 2.

MUE 253 Brass Techniques
Students will learn brass instrumental techniques and methods to provide instruction on brass instruments to students in grades 4-12. The demonstration of proper performance techniques on trumpet, horn, trombone, and tuba will be required. Prerequisites: MUE 210 ProSeminar III. Cr. 1.
MUE 310 ProSeminar V Teaching Internship
Provides students an opportunity for intensive study and internship in a specialized area of music education. Students will work with the music education faculty to determine an appropriate field placement and course of study. Prerequisite: MUE 250 ProSeminar IV. Corequisite: MUE 311 Research and Evaluation. Cr. 3.

MUE 311 Research and Evaluation in Music Education
The course will introduce philosophical, historical, descriptive, correlational, causal-comparative, experimental, and arts-based research methods as utilized in music education contexts. Students will develop skills to facilitate formalize inquiry, including student assessment and program evaluation. Prerequisite: MUE 250 ProSeminar IV. Corequisite: MUE 310 ProSeminar V. Cr. 2.

MUE 312 Teaching Instrumental Music PK-12
The course will acquaint students with methods and procedures of teaching instrumental music in grades PK-12. Teaching techniques and methods, rehearsal techniques, ensemble literature, program administration and organization, recruiting, budgets, public relations, advocacy, ensemble literature, scheduling, and performance will be addressed. Prerequisite: MUE 250 ProSeminar IV. Corequisite MUE 310 ProSeminar V. Cr. 2.

MUE 313 Instrumental Conducting
Advanced development of non-verbal gestures through the art of instrumental conducting. Score reading analysis, rehearsal techniques, and performance preparation. Prerequisite: MUT 244. Cr. 2.

MUE 314 Guitar Techniques
An introduction to basic guitar skills. Emphasis is placed upon those skills that lead to playing effective accompaniments. Cr. 1.

MUE 350 ProSeminar VI
Provides a professional community for emerging music educators. Fieldwork will include both the observation and leadership of improvisation activities in a variety of educational settings. Prerequisite: MUE 310 ProSeminar V. Co-requisite: MUE Teaching Improvisation in Music PK-12. Cr 1.

MUE 351 Teaching Improvisation in Music PK-12
Students will investigate improvisation in various styles of music and learn how its application can foster creativity in students of all grade levels. Pedagogical methods, materials and standards incorporating jazz and various styles will be reviewed and applied to the music classroom. Prerequisite: MUE 310 ProSeminar V. Co-requisite: MUE 350 and a jazz ensemble (MUS 406 or 407 - by audition). Cr. 2.

MUE 352 String Techniques
Students will learn string techniques and methods to provide instruction on bowed instruments to school aged students. The demonstration of proper performance techniques on violin, viola, cello, and bass will be required. Prerequisite: MUE 310 ProSeminar VI. Cr. 1.

MUE 353 Woodwind Techniques
Students will learn instrumental techniques and methods to provide instruction on flute, single, and double reeds to students in grades 4-12. The demonstration of proper performance techniques will be required. Prerequisite: MUE 250 ProSeminar IV. Cr. 1.

MUE 410 ProSeminar VII
Provides a professional community for emerging music educators. Fieldwork will include both observation and leadership of composition activities in a variety of educational settings. Prerequisite: MUE 350 ProSeminar VI. Corequisite: MUE 411 Teaching Music Composition PK-12; Composer's Ensemble. Cr. 1.

MUE 411 Teaching Music Composition PK-12
Students will develop personal composition skills as they learn to engage young musicians in the study of music composition. Students will study composition pedagogy including individual and group techniques. Students will create PK-12 curriculum and assessment materials and learn how to organize and administer a school-based music composition program. Prerequisite: MUE 350 ProSeminar VI. Corequisites: MUE 410 ProSeminar VII, MUS 406 Composers' Ensemble. Cr. 2.

MUE 450 Professional Internship
Full-time student teaching during the senior year is provided for one semester under direct supervision in off-campus situations for all who meet the requirements. Students will experience classroom and ensemble teaching experiences. Corequisite: MUE 451. Cr. 8.

MUE 451 Professional Portfolio
Creation of an electronic portfolio aligned with the USM Teacher Certification Standards. The portfolio will contain evidence of preparation, implementation and reflection on music education practices. Co-requisite: MUE 450. Cr. 4.

Music Courses

MUH 105 Multi-Cultural Perspectives of American Popular Music and Jazz
An overview of selected styles and traditions of jazz and American popular music, as well as World music that has influenced those styles. Developing critical thinking and writing skills, the course stresses close analysis and interpretation of selected works. Cr. 3.

MUH 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 103, music major status, or permission of instructor. Cr. 3.

MUH 220 Twentieth/Twenty-First Century Music
This course covers the history of Western music from 1900 to the present. The elements of musical language and style are traced through representative composers' works. Listening, analysis, independent research, and writing are required. Prerequisites:

Music majors only or permission of the instructor. Cr. 3.

MUH 222 Music History Survey 1
An historical study of the language and style of music from antiquity to 1850. Significant composers, major genres, and representative musical compositions are studied. Music majors only or permission of the instructor. Cr. 3.

MUH 223 Music History Survey 2
An historical study of the language and style of Western art music from 1850 to the present day. Significant composers, major genres, and representative musical compositions are studied. Music majors or permission of instructor. Cr. 3.

MUH 225 World Music
This course is designed to investigate music of various cultures. The course will explore the music of particular regions, for example, the Pacific Rim, India, and the Americas, with the intent of understanding the relationship of music to the culture in which it was created. Listening, analysis, independent research, and writing are required. Prerequisites: None. Cr. 3.

MUH 300 Topics in Music History Studies
An intensive study of a specific area of music history. This course may be repeated once for credit as topics vary. Limit 6 credits. Prerequisites: MUH 222, or permission of the instructor. Cr. 1-3.

MUH 320 Seminar in Music History
A concentrated study of selected topics in music history based on individual research. Prerequisites: MUH 105, 222, 223. For music majors or minors; others, only with permission of instructor. Cr. 3.

MUH 321 Classical and Romantic Music
This course covers the history of Western music from 1750 to 1900. The elements of musical language and style are traced through representative composers' works. Listening, analysis, independent research, and writing are required. Prerequisites: MUH 222, MUH 223, or permission of the instructor. Cr. 3.

MUH 325 The History of Musical Theatre in America
A study of the development of the musical and its relationship to American social history. Prerequisite: College Writing. Cr. 3.

MUH 329 Devils, Dwarves and Dragons
This course will consider anti-Semitism in music from multiple perspective including that of the performer, composer and audience member. Students will analyze works from musical, cultural, and ethical perspective to understand how they were performed and perceived. Prerequisite: College Writing. Cr 3.

MUS 150 Piano Class 1
This is a piano class for MUE and MUP students not majoring in a keyboard instrument. Topics covered include sight-reading, basic technique, scales, chord progressions, harmonization, transposition and performance of elementary to intermediate piano literature. Prerequisite: music major status or permission of School director. Cr. 1.

MUS 151 Piano Class 2
This is a continuation of MUS 150. Prerequisite: MUS 150 or permission of School director. Cr. 1.

MUS 205 Music in Film
Exploration of how music interacts with images, dialogue, and other elements to create meaning in films. Readings introduce students to the field of film studies and to the analysis of film music. Assigned films, to be viewed before each class, cover a spectrum of genres. The ability to read music is not required. Prerequisites: EYE and College Writing. Cr. 3.

MUS 244 Basic Conducting
Practical conducting experiences: score reading, basic beat patterns, gestures, and interpretation. Prerequisite: MUT 200. Cr. 2.
MUS 250 Piano Class 3
This is a continuation of MUS 151. Prerequisite: MUS 151 or permission of School director. Cr. 1.

MUS 251 Piano Class 4
This is a continuation of MUS 250. Prerequisite: MUS 250 or permission of School director. Cr. 1.

MUS 252 Jazz Piano Class 1
This is a jazz piano class for MUP Jazz Studies Concentration students not majoring in a keyboard instrument, as well as non-jazz keyboard majors and other instrumentalists who meet the prerequisite. Topics covered include chord voicing for the ii-v-i progression, arrangements of standard tunes, jazz scales and modes, and accompaniment styles. Prerequisite: MUS 151 or permission of School director. Cr. 1.

MUS 253 Jazz Piano Class 2
This is a continuation of MUS 252. Prerequisite: MUS 252 or permission of School director. Cr. 1.

MUS 255 Guitar
An introduction to basic guitar skills. Emphasis is placed upon those skills that lead to playing effective accompaniments. Cr. 1.

MUS 256 Diction for Singers 1: Italian and French
A study in the principles of Italian and French diction through the use of the International Phonetic Alphabet (IPA). An application of these basic principles to vocal literature through written, singing, and aural transcription exercises. Prerequisite: music major or instructor permission. Cr. 2.

MUS 257 Diction for Singers 2: French and German
A continuation of study in the principles of French diction and the principles of German diction through the use of the International Phonetic Alphabet (IPA). An application of these basic principles to vocal literature through written, singing, and aural transcription exercises. Prerequisite: MUS 256 or permission of instructor. Cr. 2.

MUS 271 Principles of Digital Audio and Music Production
This course will explore skills in music production. It will provide ear training pertinent to audio and music production. The student will have hands-on experience with recording equipment. Cr. 3.

MUS 300 Topics in Performance
An intensive study of a specific area of performance. This course may be repeated once for credit as topics vary. Limit 6 credits. Prerequisite: MUH 222 or permission of the instructor. Cr. 1-3.

MUS 301 Topics in General Music Studies
An intensive study of a specific area in general music. This course may be repeated once for credit as topics vary. Limit 6 credits. Prerequisite: MUH 222 or permission of the instructor. Cr. 1-3.

MUS 302 Topics in Pedagogy
An intensive study of a specific area in music pedagogy. This course may be repeated once for credit as topics vary. Limit 6 credits. Prerequisite: MUH 222 or permission of the instructor. Cr. 1-3.

MUS 310 Organ Improvisation 1
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: MUT 101 or permission of instructor. Cr. 1.

MUS 311 Organ Improvisation 2
This course is the continuation of MUS 310. It will be scheduled as an additional applied music time with an organ specialist. Prerequisites: MUT 101 and MUS 310, or permission of instructor. Cr. 1.

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 School. Cr. 2.

MUS 322 Piano Literature 2
A survey of keyboard literature from 1890 to the present. For piano majors only, others with permission of the School. Cr. 2.

MUS 323 Organ Literature 2
A survey of organ literature from 1800 to present. For organ majors only, others with permission of School. Cr. 2.
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: MUT 200 or permission of instructor. Cr. 3.

MUS 360 Advanced Keyboard Skills 1
This course provides practical instruction in the advanced keyboard skills of score reading, transposition, harmonization of melodies, and realization of continuo. These performance skills will be taught with emphasis on the preparation of examples outside the class as well as the active participation by students in class. Prerequisite: keyboard performance major and MUT 101, or permission of instructor. Cr. 2.

MUS 361 Advanced Keyboard Skills 2
The second semester continuation of Advanced Keyboard Skills 1. Prerequisite: MUS 360. Cr. 2.

MUS 371 Advanced Principles of Digital Audio and Music Production
This course will further skills in music production. It will provide ear training pertinent to audio and music production. The student will have hands on experience with recording equipment and will learn techniques of multi-track recording. Prerequisites: MUS 271 or permission of instructor. 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 School. Cr. 2.

MUS 373 Piano Pedagogy 2
This course is the second-semester continuation of MUS 372 in piano. The course focuses on the teaching of child beginners. Students observe a weekly group lesson, research and prepare repertoire and lesson plans, and evaluate their peers' teaching. Each student teaches at least one group lesson. Prerequisite: MUS 372 in piano, piano major, or permission of instructor. Cr. 2.

MUS 374 Jazz Pedagogy
A study of the teaching methods and materials in the jazz performance area. Emphasis will be placed on large and small jazz ensemble literature and conducting techniques, jazz improvisation pedagogical techniques, and writing techniques. This course will also address the topic of securing and maintaining employment within the jazz field. Prerequisite: open to music majors of junior standing. Cr. 2.

MUS 376 Class Piano Teaching 1
This course provides an overview of teaching group piano to adult beginners. Students spend the semester observing the teaching of Piano Class 1 (MUS150) and meet weekly with the teacher for discussion and additional instruction. Prerequisite: Two semesters of MUP 202 or 203, piano major or permission of instructor. Cr. 2.

MUS 377 Class Piano Teaching 2
This course is the second-semester continuation of Class Piano Teaching 1. Students observe the teaching of Piano Class 2 (MUS 151) and meet with the teacher weekly for discussion and additional instruction. Students have the opportunity to teach the class under the instructor's supervision. Prerequisite: MUS 376. Restricted to piano majors. Cr. 2.

MUS 378 Practicum in Piano Pedagogy 1
This course provides practical teaching experience in individual piano instruction. Under the supervision of piano pedagogy faculty, students teach private lessons to three or four child beginners. Students also observe piano lessons given by master teachers and do outside readings and research. Prerequisite: MUS 373, four semesters of MUP 202 or 203, piano major, or permission of instructor. Cr. 3.

MUS 379 Practicum in Piano Pedagogy 2
This course is the second-semester continuation of MUS 378. Prerequisite: MUS 378. Cr. 3.

MUS 380 Jazz Improvisation 1
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: MUT 101 or permission of the instructor. Cr. 3.

MUS 381 Jazz Improvisation 2
A performance course designed to expand upon the improvisation principles presented in Jazz Improvisation 1. 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 420 Orchestration
A study of the nature of the various instruments. Practice in scoring for instrumental combinations, orchestra, and band. Prerequisite: MUT 200. Cr. 3.

MUS 442 Recital Class
Performance in major field, stage deportment, and evaluation of performances. May be repeated. Cr. 0.

**MUS 480 Bibliography and Research in Music**
A study of music reference and research tools, use of library resources and networks, and bibliographic style and technique. Cr. 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. School permission required. Cr. 1-3.

**MUT 100 Music Theory and Aural Skills 1**
This course covers music theory fundamentals, fundamentals of species counterpoint, principles of notation, instrumentation, solfege, music transcription, and sight singing. Cr. 4.

**MUT 101 Music Theory and Aural Skills 2**
This course covers the concepts of diatonic harmony, cadences, phrase level form and a brief introduction to chromaticism. This material will be explored through the analysis, transcription, composition, and sight singing of topical examples of music. Cr. 4.

**MUT 200 Music Theory and Aural Skills 3**
This course covers chromatic harmony and musical form. This material will be explored through the analysis, transcription, composition, sight singing, and performance of topical examples of music. Cr. 4.

**MUT 201 Music Theory and Aural Skills 4**
A grounding in the materials of 20th and 21st century music from analytical, compositional, and listening perspectives. Students will undertake analyses and model composition exercises involving: modes, synthetic scales, extended tertian harmony, poly harmony, rhythm and meter, atonality, twelve-tone serialism, chance music, and minimalism. As students learn the abstract theoretical concepts, they will be guided to connect them to real music through copious listening, singing, and transcription exercises. Special attention will be paid to the historical contexts of the various techniques and styles covered during the semester, and students will also attend and critique in writing two performances of contemporary art music. Cr. 4.

**MUT 300 Topics in Music Theory and Composition Studies**
An intensive study of a specific area of music theory or composition. This course may be repeated once for credit as topics vary. Limit 6 credits. Prerequisite: MUH 222 or permission of the instructor. Cr. 1-3.

**MUT 330 Form and Analysis**
Study and analysis of music of the classical, romantic, and contemporary periods with emphasis on homophonic forms and styles. Prerequisite: MUT 200. Cr. 3.

**MUT 332 Counterpoint**
Analysis and writing of tonal counterpoint. Emphasis is given to the study of canon, invention, fugue, chorale prelude, and continuous variations, using eighteenth-century works as models for composition. Prerequisite: MUT 200. Cr. 3.

**MUE 595 Topics in Music Education**
Course content will vary to represent the strengths of nationally recognized visiting guest faculty. Cr. 3.

**MUE 611 Introduction to Research in Music Education**
Systematic research methods in music applied to individualized descriptive and experimental music research topics and critical evaluation of music research. Study of measurement theory, standardized tests, test construction and interpretation for music aptitude, achievement, performance, aesthetic response, preference, and appreciation. Cr. 3.

**MUE 612 Philosophical Bases of Music Education**
Investigation of historical and current views on the art of music, the role of music in society, and the role of music in human experience. Cr. 3.

**MUE 613 Psychology of Music Teaching and Learning**
Detailed study of topics concerning differential music behavior and perception. This course includes the mechanics of hearing, music memory, learning, and response as well as an overview of researched teaching practices. Cr. 3.

**MUE 614 Curriculum Development and Assessment**
Detailed study of catalysts for curricular change throughout all aspects of music education: reform, content and objectives, evaluation, human rights, multiculturalism, technology, and development of a systematic approach to curriculum design and implementation. Cr. 3.
MUE 615 The Professional Portfolio
Oral examination in music education. The oral examination will be scheduled after the completion of all coursework for the MUE master's degree. The student will present the milestones and domain project portions of his/her professional portfolio to a master's examination committee. See details on page 66. Cr. 2.

MUE 621 Composing Together: Level I
This course assumes no prior experience in composing music and is designed for teachers who would like to learn the basics of music composition and composition instruction. Participants will learn how to design and implement beginner-level composition activities for students of all ages participating in music in general classroom, computer laboratory, lessons, and rehearsal settings. Cr. 3.

MUE 622 Composing Together: Level II
For those who have taken Level I (or want to repeat Level II and desire reinforcement in the principles of teaching the intermediate-level composer). Participants will learn how to design and implement composition activities for students who already have some compositional skills and who are participating in music in general classroom, laboratory, and rehearsal settings. The Level II course assumes prior experience in teaching music composition to students at the beginner level. This course will prepare teachers to introduce compositional techniques appropriate for students at the intermediate level. Participants will learn how to guide intermediate composers in the study of master composers through active analytical listening. Cr. 3.

MUE 623 Composing Together: Level III
For those who have taken Level I and II (or want to repeat Level III and desire reinforcement in the principles of teaching the advanced-level composer). Participants will learn how to design and implement composition activities for students with advanced compositional skills who are participating in music in general classroom, laboratory, and rehearsal settings. The Level III course assumes prior experience in teaching music composition to beginner- and intermediate-level student composers. This course will prepare teachers to introduce compositional techniques appropriate for students at the advanced pre-college level. Participants will learn how to guide advanced composers in the creation of larger scale works. Cr. 3.

MUH 520 Seminar in Music History
In-depth study of one or more topics in music history. A substantial final project will be the culmination of both individual research and a synthesis and application of historical studies and approaches. Cr. 3.

MUS 509 Dynamic Posture and Movement
Provides students with theoretical and applied understandings of anatomy, kinesiology, and biomechanics in order to improve ease and freedom of motion while in a stationary position. This course is designed for musicians, as well as other performers and creative artists, athletes, and computer users. Cr 3.

MUS 510 Bibliography and Research in Music
A study of music reference and research tools, use of library resources and networks, and bibliographic style and technique. Cr. 3.

MUS 516 Organ Improvisation I
This course will cover the basics of improvisation at the organ. The goal is to equip students 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 additional applied music time with an organ specialist. Cr. 1.

MUS 517 Organ Improvisation II
This course is the continuation of MUS 516. It will be scheduled as additional applied music time with an organ specialist. Prerequisite: MUS 516. Cr. 1.

MUS 518 Music Literature: Organ I
A survey of organ literature up to 1800. For organ majors only, others with permission of the School. Cr. 2.

MUS 519 Music Literature: Organ II
A survey of organ literature from 1800 to present. For organ majors only, others with permission of the School. Prerequisite: MUS 518. Cr. 2.

MUS 521 Literature of the Major Instrument
Advanced study of the literature for solo instrument. Chamber music will be considered when the performer is a featured soloist. Cr. 2.

MUS 522 Music Literature: Voice I
Advanced in-depth study of vocal literature to be determined by the teacher in the areas of German, French, Italian, Russian, or Spanish repertory. For voice majors only or with permission of the instructor. Cr. 2.

MUS 523 Music Literature: Voice II
Advanced in-depth study of vocal literature to be determined by the teacher in a contrasting area of study from Music Literature I. For voice majors only or with permission of the instructor. Cr. 2.
MUS 524 Music Literature: Piano I  
A survey of keyboard literature up to 1830. For piano majors only, others with permission of the School. Cr. 2.

MUS 525 Music Literature: Piano II  
A survey of keyboard literature from 1830 to the present. For piano majors only, others with permission of the School. Cr. 2.

MUS 526 Composition (Twentieth Century Survey)  
This survey will cover the major trends, movements, styles, and philosophies that influenced the creation of contemporary concert music in the last century with an overview of current fashion. Cr. 3.

MUS 537 Jazz Composition/Arranging  
Detailed study and analysis of music for small and large jazz ensembles including composing and arranging for a variety of instrumental combinations. Cr 3.

MUS 544 Instrumental Conducting  
Stylistic study of scores from a variety of periods, advanced baton and left hand techniques, rehearsal techniques, and conducting experience with instrumental ensembles. Cr. 3.

MUS 545 Choral Conducting  
Advanced development of non-verbal gestures through the art of choral conducting. The course includes musical analysis of choral scores, rehearsal techniques, and performance preparation. A research paper is required. Cr. 3.

MUS 556 Diction for Singers 1: Italian and French  
A study in the principles of Italian and French diction through the use of the International Phonetic Alphabet (IPA). An application of these basic principles to vocal literature through written, singing, and aural transcription exercises. Cr. 2.

MUS 557 Diction for Singers 2: French and German  
A continuation of study in the principles of French diction and the principles of German diction through the use of the International Phonetic Alphabet (IPA). An application of these basic principles to vocal literature through written, singing, and aural transcription exercises. Cr. 2.

MUS 560 Advanced Keyboard Skills I  
This course provides practical instruction in the advanced keyboard skills of score reading, transposition, harmonization of melodies, and realization of continuo. These performance skills will be taught with emphasis on the preparation of examples outside the class as well as the active participation by students in class. Cr. 2.

MUS 561 Advanced Keyboard Skills II  
The second semester continuation of Advanced Keyboard Skills I. Prerequisite: MUS 560. Cr. 2.

MUS 562 Topics in Brass Studies  
Critically and analytically pursue a topic of brass instrument study or performance either independently or in a group. Cr. 3.

MUS 563 Topics in Keyboard Studies  
Critically and analytically pursue a topic of keyboard study or performance either independently or in a group. Cr. 3.

MUS 564 Topics in String Studies  
Critically and analytically pursue a topic of string study or performance either independently or in a group. Cr. 3.

MUS 565 Topics in Vocal Studies  
Critically and analytically pursue a topic of vocal study or performance either independently or in a group. Cr. 3.

MUS 566 Topics in Woodwind Studies  
Critically and analytically pursue a topic of woodwind study or performance either independently or in a group. Cr. 3.

MUS 567 Topics in Percussion Studies  
Critically and analytically pursue a topic of percussion study or performance either independently or in a group. Cr. 3.

MUS 570 Topics in Contemporary Music Technology  
Intensive study of one or more areas of music technology in the context of producing music compositions, creating pedagogical multimedia applications, performing music with interactive applications, or recording and editing digital audio/video. A substantial final project is required. Cr. 3.

MUS 572 Vocal Pedagogy  
A study of the teaching methods and materials for voice. Normally the voice sessions will be offered in alternate years. For performance or
MUS 574 Jazz Pedagogy/Program Administration
Pedagogical approaches to the analysis of jazz ensemble scores, rehearsal techniques, concert planning, public relations, recruiting, promotion, grant writing, and other aspects of the development of a Jazz Studies program. Cr. 2.

MUS 575 Pedagogy of the Major Instrument
A study of the teaching methods and materials for instruments, excluding piano or voice. This class will be scheduled as additional applied music time with an instrumental specialist. For performance majors only. Other music majors with permission of the School. Cr. 2.

MUS 576 Class Piano Teaching I
This course provides an overview of teaching group piano to adult beginners. Students spend the semester observing the teaching of MUS 150 Piano Class I and meet with the teacher weekly for discussion and additional instruction. Piano majors or permission of the School. Cr. 2.

MUS 577 Class Piano Teaching II
This course is the second semester continuation of MUS 576 Class Piano Teaching I. Students observe the teaching of MUS 151 Piano Class II and meet with the teacher weekly for discussion and additional instruction. Students have the opportunity to teach the class under the instructor's supervision. Piano majors or permission of the School. Cr. 2.

MUS 578 Pedagogy of the Major Instrument: Piano I
A study of the teaching methods and materials for piano. This class will be scheduled as additional applied music time with an instrumental specialist. For performance or pedagogy majors only. Other music majors with permission of the School. Cr. 2.

MUS 579 Pedagogy of the Major Instrument: Piano II
This course is the second semester continuation of MUS 578. Students will observe weekly lessons, research and prepare repertoire and lesson plans, and evaluate their peers' teaching. Each student teaches at least one group lesson. This class will be scheduled as additional applied music time with an instructor. For performance or pedagogy majors only. Other music majors with permission of the School. Cr. 2.

MUS 582 Advanced Pedagogy: Keyboard
An advanced study of the teaching methods and materials for keyboard instruments. This course is a second semester continuation of MUS 575. Cr. 2.

MUS 584 Advanced Pedagogy: Voice
An advanced study of the teaching methods and materials for voice. This course is a second semester continuation of MUS 572. Cr. 2.

MUS 596 Topics in Jazz
Critically and analytically pursue a topic of interest independently or in a group. Cr. 3.

MUS 598 Independent Study
A project requiring directed research and readings, culminating in a final document. Consent of the instructor required. Cr. 3.

MUS 675 Jazz Chamber Music Coaching
Pedagogical approaches to coaching a chamber jazz ensemble. The ensemble will be under the direct coaching responsibility of the student. Cr. 3.

MUS 682 Chamber Jazz Ensemble Evolution and Analysis
Advanced analysis and examination of the historical evolution of the chamber jazz ensemble, including detailed listening and critical discussion. Cr. 2.

MUS 683 Large Jazz Ensemble Evolution and Analysis
Advanced analysis and examination of the historical evolution of the large jazz ensemble, including detailed listening and critical discussion. Cr. 2.

MUS 694 Internship
A field application of theory and practice. The project will be jointly defined by student, professor, and employer. Graded CR/NC. Cr. 3.

MUS 695 Thesis
Credit given on acceptance of thesis. Cr. 0-3.

MUT 530 Seminar in Music Theory
Advanced study of one or more topics in music theory, including both a reading and an analytical component, and the pedagogy of music. A substantial final project is required. Cr. 3.
MUT 532 Counterpoint
Analysis and writing of tonal counterpoint. Emphasis is given to the study of canon, invention, fugue, chorale prelude, and continuous variations, using eighteenth-century works as models for composition. Cr. 3.

Ensembles

MUS 500 Orchestra
A full symphonic ensemble open to all University students and community members through audition. The ensemble focuses on the skills required for ensemble performance through a variety of literature. The orchestra performs at least one major concert per semester. Cr. 0.5.

MUS 501 Chorale
A large choral ensemble of mixed voices open to all University students by audition. Cr. 0.5.

MUS 502 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. Prerequisite: audition. Cr. 0.5.

MUS 503 Percussion Ensemble
A percussion ensemble open to all University students through audition. Prerequisite: audition. Cr. 0.5.

MUS 504 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. Prerequisite: audition. Cr. 0.5.

MUS 505 Chamber Singers
A small choral ensemble of mixed voices, selected by audition, specializing in a cappella singing. Cr. 0.5.

MUS 506 Chamber Music
A performance course open to all qualified students interested in forming chamber groups under faculty supervision. Cr. 0.5.

MUS 507 Jazz Ensemble
An instrumental ensemble specializing in the study and performance of jazz for large and small groups from early jazz to the present. Open to all students by audition. Prerequisite: audition. Cr. 0.5.

MUS 508 Wind Ensemble
The Wind Ensemble, based upon the solo performer premise, has established a tradition of performing chamber and large instrumentations, traditional or experimental combinations, and early through contemporary literature. Prerequisite: audition. Cr. 0.5.

MUS 552 Accompanying
A workshop course in applied accompanying, either under faculty supervision or by applied faculty approval. A half credit is awarded for each twenty hours of University-approved accompanying with a maximum of two credits per semester. Cr. 0.5-2.

Applied Music

MUP 603 Applied Music, Major Area
Private instruction in the major area of study. May be repeated for credit. Fee assessed. Cr. 3.

MUP 604 Applied Music
Private instruction for Pedagogy concentration or in a secondary area of study. May be repeated for credit. Fee assessed. Cr. 1-3.

MUP 690 Recital
Public performance in the area of applied study or final project presentation. May be repeated. Cr. 0.
Philosophy Overview

Chair of the Department: Jason Read
Distinguished Professor: Robert Louden; Professors: Jeremiah Conway, Julien Murphy, Kathleen Winingier; Associate Professor: Jason Read; Assistant Professor: Yishai Cohen

Professor Murphy is serving as Associate Dean of the College of Arts, Humanities, and Social Sciences.

"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–"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’ abilities 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, and the philosophy of religion are of similar value in understanding the respective fields of art, sociology, politics, and religion.

Additional Information

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, and 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, and Philosophy Symposium, which provides a forum for students to discuss their philosophical work and facilitates communication between faculty and students. 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.
BA in Philosophy

Description

See Program Requirements

Program Requirements

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. Only one 100-level course may count toward the major.

All philosophy majors must take four history of philosophy courses. Two of these, which need not be taken in sequence, must be PHI 310 (Ancient Philosophy) and PHI 330 (Early Modern Philosophy). Thereafter, any two additional courses in the history of philosophy may be taken. These courses are PHI 312, PHI 315, PHI 320, PHI 340, PHI 350, PHI 360, PHI 370, PHI 380, PHI 390, and PHI 398.

In order to graduate, all philosophy majors must complete two 400-level seminars in philosophy. Seminar major figures and topics rotate among faculty in the Department.

In the last year a senior thesis (PHI 410) is optional. The successful completion of PHI 400 is a prerequisite for taking PHI 410. This thesis 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 thesis. Upon completion of the paper, an oral examination will be conducted by the full Department.

Graduating with Distinction in the major is granted if the student's GPA in philosophy is at least 3.33 or higher upon completion of all requirements for the major.

Students enrolled in the HONORS Program and who are also philosophy majors may substitute their Honors senior thesis course for the Philosophy Senior Thesis (PHI 410), if the thesis is mentored by a philosophy faculty member and if the thesis is on a philosophical topic.

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

Description

See Program Requirements

Program Requirements

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. Four of them must be beyond the 100-level and two of them must be at the 300-level.
Course Descriptions

PHI 102 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 philosophy 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, such as existentialism and pragmatism, will be undertaken. Prerequisite: a college writing course. Cr 3.

PHI 103 Introduction to Philosophy: Human Alienation
Why do human beings picture themselves as being alienated from nature and 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: a college writing course. Cr 3.

PHI 105 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: a college writing course. Cr 3.

PHI 106 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: a college writing course. Cr 3.

PHI 107 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: a college writing course. Cr 3.

PHI 109 Introduction to Philosophy: Law, Politics, and Society
This course examines the traditional political questions that face every society: Who should rule? What should the rules be? Why should the rules be obeyed? The approach is largely historical, emphasizing the answers that major philosophical figures have offered to these questions. The relevance of these historical answers to current social issues is addressed using a number of contemporary topical readings. Prerequisite: a college writing course. Cr 3.

PHI 110 Introduction to Philosophy: Gender and Society
To what extent are social norms influenced by assumptions about sex and gender? The course examines philosophical arguments on topics such as masculinity, femininity, sexualities, war, religion, fatherhood, motherhood, abortion, gay marriage, and politics. Prerequisite: a college writing course. Cr 3.

PHI 111 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: a college writing course. Cr 3.

PHI 112 Introduction to Philosophy: Sex, Love, and Friendship
Sex, Love, and Friendship have all been explored by philosophers since Plato and Aristotle. Through a lively interaction with classical and modern works, we will examine what makes human affection challenging, whether social media have an impact on relationships, and whether the experience and understanding of these ideas change over time and across cultures. Prerequisite: a college writing course. Cr 3.

PHI 205 Logic
Techniques to distinguish good from bad reasoning through the study of formal and informal logic including fallacies, inductive and deductive arguments, truth tables, evidence, and rules of implication. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 211 Media Ethics
In the information age, media play an increasingly large role in our lives. Our notion of living in a global society is largely shaped by media.
What is responsible journalism? Does violent programming contribute to violence in America? What are professional ethics and how should they guide media practitioners? We will discuss these questions by examining key ethical values in media such as: privacy, confidentiality, truth telling, conflicts of interest, and social responsibility. We will also explore some fundamental issues in ethical theory such as: Why be ethical? What is ethics? How do ethical theories differ? What are the best ways to evaluate and apply ethical theories to media controversies today? The course is designed for majors in philosophy, media studies, and communication as well as other interested students. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 215 Philosophy of Literature
While many cultures accord a vital role to stories, myths, and poetry in the cultivation of wisdom, traditional European philosophy has tended to marginalize them. This course seeks to investigate the historical roots for this separation between philosophy and literature in European thought. It will then consider the perspectives of several contemporary thinkers (e.g., Robert Coles, Michael Ende, Martha Nussbaum, and Martin Heidegger) who are convinced that literature plays an indispensable role in the pursuit of wisdom. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 220 Philosophy of Art and Visual Culture
What makes a person creative? What do artists think about their art? How do critics evaluate a work? If art is created for a cultural ritual or healing, is it to be understood differently? How do the circumstances of a work’s creation and reception influence its evaluation? How do a person’s class, ethnicity, and gender influence the artwork and its reception. Philosophers in the field of Aesthetics attempt to answer questions which artists, art historians, anthropologists, and critics ask about art. The works of art and philosophy considered will be drawn from a wide variety of cultural contexts. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. 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 construction. Issues to be discussed include perception, memory, images, and the use of social stereotypes. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 225 Philosophy of the Mind
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 EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 235 Philosophy, Social Media, and Security
The course examines the moral and communicative dimensions of social interaction in a digital context that presumes adequate security. The focus is how social media transforms traditional ethical issues such as: truth, trust, privacy, autonomy. We will also inspect notions of and tolls for network security. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 241 Philosophy & the Politics of Work
This course is an examination of work that is situated at the intersection of personal identity and social structure. Philosophical perspectives on work and labor from such writers as Plato, Aristotle, Locke, Smith, Hegel, Marx, and Arendt will be examined. Work in contemporary society will be examined through sociology, economics, and politics. Student will be expected to attend film screenings outside of class. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 245 Africa, Social Justice, and Exile
Why are people forced to leave Africa, where do they go, what makes it difficult to return? This course examines exile, its effect on men, women, and children. Looking at theories of social justice, personal narratives, short stories, and visual culture, will help us consider moral issues in the post-colonial landscape of Africa. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 265 Philosophy and Gender
The course explores the contributions of feminist philosophers to gender analysis. It will examine the philosophical assumptions inherent in theories of gender difference that arise in sociobiology, biological determinism, physiology, and the social construction perspective. Assumptions about gender will be studied in some of the following areas: violence, war, religion, reproduction, family, sexualities, and sport. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 275 The Nature of Compassion
Whether and how we respond to the suffering of others defines, in many ways, who we are as persons and communities. This course is an investigation into the emotion and compassion and its social role. Drawing upon a wide variety of sources such as Greek Tragedy, Buddhist scriptures, classical and contemporary philosophical thought, it will address philosophical defenders of the need to cultivate compassion (Rousseau, Schopenhauer, and Adam Smith) as well as thinkers suspicious of this notion (Nietzsche, e.g.). The work of contemporary philosophers—Phillip Hallie and Martha Nussbaum—will also receive close attention. Students will have a chance to think through some important philosophical issues, such as the role of emotions in moral deliberation, the extent to which compassion can be both aided and obstructed by the use of language, and whether there are appropriate limits to compassion. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 285 Biology, Technology, and Ethics
An examination of key ethical controversies in biology including regenerative medicine, synthetic biology, genomics, and reproductive technologies. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 289 Problems in Philosophy
Consideration of selected problems or systems of philosophical significance, including general problems of metaphysics, epistemology, axiology, specialized areas, etc. May be repeated for credit. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. 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. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 301 History of Ancient Philosophy
Philosophic thought from the pre-Socratics to the late Hellenistic period, with major emphasis on Plato and Aristotle. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 312 Morality in African Literature and Film
Intellectual, cinematic and literary movements will be examined through generations of thinkers in African national, cultural and geographical settings. The course will look at texts from West Africa, East Africa, and Southern Africa dealing with theory, fiction, and visual culture. Important recent controversies in Postcolonial theory are explored. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 315 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 320 History of Medieval and Renaissance Philosophy
This course critically examines the merger of philosophical with the religious stream of thought by examining the ideas and text of Augustine, Aquinas, Duns Scotus, Maimonides, Averroes, Dane, Ibn Kahlidun, Erasmus and others. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 330 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 340 History of Nineteenth-Century European Philosophy
Development of German idealism; emergence of social and scientific philosophies; contributions of Kant, Hegel, Marx, Schopenhauer, Nietzsche, Feuerbach, and others. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 350 American Philosophy
History and background of the origin of philosophical ideas in America; particular emphasis given to Peirce, James, Royce, Dewey. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 360 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 EYE or PHI 100 course or permission of the instructor. 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 EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 380 Postmodernism and After
The course presents a survey of central movements within continental philosophy in the twentieth and twenty-first century: structuralism, poststructuralism, deconstruction, speculative realism, and new materialisms. Possible figures of study are: Deleuze, Foucault, Derrida, Lyotard, Badiou, Butler, Malabou, Negri and Virno. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 390 Language and Interpretation
How do we go about interpreting something that is foreign to us? What does it mean to understand a person or a text? Hermeneutics is a tradition of philosophical inquiry into the dynamics of interpretation and understanding. The course examines the historical roots of hermeneutics in the works of Friedrich Schleiermacher and Wilhelm Dilthey, and it proceeds with the close analysis of several twentieth-century thinkers—for example, Hans-Georg Gadamer and Martin Heidegger—whose works extend and develop the hermeneutical tradition. Prerequisite: Any EYE or PHI 100 course or permission of the instructor. Cr 3.

PHI 398 Independent Study
This course provides students with an opportunity to design a set of readings and learning objectives concerning a topic in the history of philosophy or a specific issue in philosophy. Students must complete an independent study proposal, and obtain permission of a faculty mentor and the Department chair. Students must meet regularly with the faculty mentor. May be repeated for credit. Prerequisites: a minimum of two 300-level philosophy courses plus written permission of the instructor involved. Cr 3.

PHI 400 Philosophy Topics Seminar
This is a seminar course dealing with a specific topic, philosophical problem, or major question in the history of philosophy or a contemporary philosophical issue. Examples of possible topics include: free will and determinism, relativism and the meaning of life. Topics will change from year to year and the course may be repeated for credit when topics vary. The prerequisite for any 400-level seminar course is two (2) 300-level courses in philosophy, or permission of the instructor. Cr 3.

PHI 405 Major Figure Seminar in Philosophy
This is a seminar course on a major figure in the history of philosophy. Major figures may include: Plato, Kant, Nietzsche, James, and Beauvoir, among others. The course may be repeated for credit when figures vary. Prerequisite for any 400-level seminar course is two (2) 300-level courses in philosophy or permission of the instructor. Cr 3.

PHI 409 Research 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 Thesis**

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 producing and presenting a senior paper for oral defense. Prerequisites: advanced standing as a philosophy major, successful completion of PHI 400 and permission of the Department. Cr 3.
Political Science

Political Science Overview

Chair of the Department of History and Political Science: Robert Klotz, Portland
Professors: Avalos; Associate Professors: Klotz, Schmidt, Vassallo; Assistant Professor: Rowe, Ruback.

With a synergy of two close disciplines, the History program and the Political Science program have joined together into the same department to expand their curriculum and course offerings to their students. The department offers two distinct majors: a B.A. degree in History and a B.A. degree in Political Science. The two programs deliver a variety of courses, often interconnected, that are of interest to students in both majors.

BA in Political Science

Description

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 political science major provides a substantive and analytic preparation that can lead to a variety of professions, giving the students access to a vast array of future careers. For instance, this discipline often serves those with an interest in entering politics and government. Political science majors become civic leaders, town managers, city planners, budget specialists, foreign service officers, CIA analysts, FBI agents, policy researchers, and 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. Similarly, teaching has been a traditional career for many political science students, who have combined their interest for domestic and international issues with a call to service in the community. Many journalists and broadcasters were political science majors. Business has also recognized the analytic and management skills obtained through training in political science. Other rapidly developing fields such as polling, communications, campaign management, consulting, private and public interest group activity, and data analysis also value a political science degree when making hiring decisions. A political science degree, therefore, opens many doors in different professional directions.

The Political Science faculty strongly urges its majors to take courses in economics, history, sociology, and business. Political science majors are especially encouraged to take advantage of the variety of internship opportunities as part of their undergraduate program to help them establish a professional presence in the working community. All political science students 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 101, 104, 203, 205, 290, and internships.
- Yearly: POS 280, 334, 354, 445 and 446.
- Approximately once every two years: POS 102, 120, 245, 256, 261, 262, 310, 315, 333, 335, 349, 355, 361, 374, 385, 390, 392, 393, 405, 406, 463, and 464.

Graduating with Distinction in Political Science

For a B.A. degree in political science with distinction, a student must achieve a 3.7 GPA or higher in courses taken in the major.

Program Requirements

The Political Science Program offers students a choice of two tracks: Political Science Track and International Studies Track. Only one track must be completed to earn the B.A. in Political Science. Most majors complete the Political Science Track; however, students who have an especially strong interest in world affairs should consider the International Studies Track.

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**Political Science Track**

The minimum number of credits (exclusive of the University’s Core curriculum) required for the Political Science Track: 39.

Students must complete POS 101, POS 104, POS 203, POS 205, and POS 290. Introducing ideas that are fundamental to the discipline, these required courses should be the first priority for students upon entering the major. Students may choose from any of the major’s other offerings to fulfill remaining credit hours, with the requirement that at least 12 credits be completed at or above the 300-level. A grade of C- or better is required to receive credit for POS courses in the Political Science Track.

**International Studies Track**

The minimum number of credits (exclusive of the University’s Core curriculum) required for the International Studies Track: 39 + foreign language requirement.

Students in the International Studies Track must attain an overall GPA at USM of 2.5 or better. A grade of C- or better is required to receive credit for any course that fulfills an International Studies Track requirement.

Students in the International Studies Track must complete the following:

**Required Courses (15 credits)**

- HTY 101 Western Civilization I
- ECO 101 Introduction to Macroeconomics or ECO 104 The U.S. in the World Economy
- POS 104 Introduction to International Relations
- POS 203 Introduction to Political Science Research
- POS 205 Introduction to Comparative Politics

**Political Science Electives (12 credits)**

Students must complete at least four internationally-related political science electives from the list below:

- POS 245 French Politics and Government
- POS 280 Issues Before the United Nations
- POS 310 Internet and Politics
- POS 333 Theories of Democratization
- POS 335 Politics in Western Europe
- POS 349 The Middle East in International Politics
- POS 374 United States Foreign Policy
- POS 380 Topics in POS (dependent on topic)
- POS 385 Conflict and Security in Contemporary World Politics
- POS 399 Topics in Political Science (dependent on topic)
- POS 405 The European Union
- POS 406 Research in the European Union
- POS 445 – MeMUNC Conference Planners
- POS 446 – Global Educators
- POS 480 International Affairs Internship

**Electives in Other Programs (12 credits)**

Students must complete at least four electives from the list of Approved Internationally-Focused Elective Courses, which is available on the Political Science website at usm.maine.edu/pos.

**Foreign Language Requirement (variable credits)**

In addition to the courses listed above, students in the International Studies Track must achieve proficiency in a foreign language through the intermediate level. This proficiency may be achieved through coursework at USM (i.e. successful completion through FRE 202; GER 202; SPA 202), through transfer credits from another 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 is determined by a proficiency exam administered by the appropriate faculty member. Students who can show that they have achieved at least intermediate-level proficiency in some language other than English need to take no foreign language courses at USM, although they may do so if they wish.
Minor in Political Science

Description
See Program Requirements

Program Requirements
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 must take at least three of the following five courses: POS 101, POS 104, POS 203, POS 205, POS 290. Students may choose from any of the major's other offerings to fulfill remaining credit hours, with the requirement that at least 6 hours be completed at or above the 300-level. A grade of C- or better in POS courses is necessary to receive credit toward the minor.

Minor in Race and Ethnic Studies

Description
The Race and Ethnic Studies minor is an interdisciplinary program drawn from the humanities, social sciences, and the arts that is designed to familiarize students with the historical, social, intellectual, and cultural production of race and ethnicity. Students will learn how constructions of ethnicity, race, and racism have changed over time, often in response to changes in the nature of work, family, gender and sexuality, and patterns of migration. Students in the program will develop skills in critical thinking and analysis, social theory, and writing. This academic pathway will help to prepare students for effective citizenship and work in an increasingly diverse world.

Questions about the minor can be directed to Leroy Rowe, Assistant Professor, Department of History and Political Science, leroy.rowe@maine.edu

Program Requirements
The minor consists of six courses (18 credits).
*No more than six credits used to satisfy the requirements of a student’s major can count towards the Race and Ethnic Studies minor.
*Students must earn a C- or better in each course in order for the course to count towards the minor.

I. Students must choose two (2) 100-level courses from the list below. Courses must come from two different departments/programs.

HON 101 Race, Reflection and Reality
HTY 141 African American History to 1865
HTY 142 African American History since 1865
ENG 145 Topics in Literature: Black Writing Matters
ANT 102 Biological Anthropology
MUH 105 Multi-Cultural Perspectives of American Popular Music and Jazz
MUS 103 Introduction to Jazz
SOC 150 Social Networks and the Value of Diversity

II. Students must take four (4) classes at the 200-level or above, selected from the following list of courses. Students must take classes from at least two different prefixes when completing the electives (e.g. HTY and ENG, etc.)
Minor in Social Media Activism

Description

Social Media Activism is a minor for students interested in combining their interest for engagement and activism in different environments through online media communication. Courses in this minor will allow students to learn and understand political action in its multiple forms as well as new types of interactive social and political engagement opportunities. Students with diverse interests in social causes will learn to apply their passion to action, while learning the theories behind a successful online presence for different types of communities.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 15.

Students who wish to complete the Social Media Activism minor must take SOC 210 Critical Thinking about Social Issues and CMS 242 Communication and Social Media. Students may choose from a list of courses to fulfill the remaining credit hours. A grade of C- or better in all the courses is necessary to receive credit toward the minor.

SOCIAL MEDIA ACTIVISM – 15 credits

Required courses (6 credits)
Electives (9 credits)

CMS 360 Ethical Dilemma in the Digital Age
PHI 211 Media Ethics
PHI 235 Philosophy, Social Media and Security
POS 102 People and Politics
POS 256 Media & Politics
POS 310 Internet and Politics
(POS 3XX Social Media & Revolutions (course to be developed by 2018))
SOC 150 Social Networks and the Value of Diversity
SOC 327 Social Movements

Political Science Course Descriptions

POS 101 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 102 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 101 is not a prerequisite for POS 102. Cr 3

POS 104 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. Cr 3.

POS 203 Introduction to Political Science Research An introduction to the way political scientists conduct research. Students will learn how to formulate ideas, conduct a literature review, test hypotheses, measure political phenomenon, perform statistical analyses, draw conclusions, and present written results. Cr 3.

POS 205 Introduction to Comparative Politics An introduction to the field of comparative politics with a focus on political systems and political participation. The course will examine political institutions, electoral laws, comparative methodologies, political culture, and the problem of establishing and maintaining democratic government. Case studies will be used to highlight major themes. Cr 3.

POS 245 French Politics and Government This course centers on the political, economic, and social structure of France over the last five decades. Students will learn the essential components of the French governmental system, the most typical economic policies, France's position in the EU, and the ongoing struggle about the defense of the French culture. Prerequisite: ENG 100, 104, or equivalent. 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. Prerequisite: POS 101 or POS 102 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. Prerequisite: POS 101 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. Prerequisite: POS 101 or permission of the instructor. Cr 3.

POS 280 Issues Before the United Nations An orientation to the activities of the United Nations. This course includes exposure to current
events, exploration of pressing international issues, understanding the basics of international law, and mastery of the protocol and procedures of international diplomacy. Cr 3.

**POS 290 Introduction to Political Theory**  A survey of political theory from ancient times to the present. Themes include the nature of democracy, freedom, equality, power, legitimacy, justice, and the use of lying in political life. Cr 3.

**POS 310 Internet and Politics** This course explores the politics of Internet communication. Topics include Internet development, communication techniques, access policy, citizenship, advocacy, government, journalism, and law. Cr 3.

**POS 315 Media Law** This course explores the legal context of communication through the mass media. Major issues include censorship, ownership regulation, remedies for people in the news, the right to receive and send communication in the media, and news media privilege. Prerequisite: POS 101 or CMS 103 or permission of the instructor. Cr 3.

**POS 333 Theories of Democratization** As a general overview of democratization studies, the course goes beyond theoretical discussions about what elements are needed to create a democracy. Students study specific examples of political institutions, economic systems, political cultures and values, as key variables across multiple geographic areas to assess the establishment of democracy. Prerequisite: POS 205 or equivalent or permission of the instructor. Cr 3.

**POS 334 Race and Ethnicity in U.S. Politics** Are American political institutions representative? This course provides students with the opportunity to examine this question by confronting the relationship between race, ethnicity, and representation in elections, court cases, urban politics, and political theory. Cr 3.

**POS 335 European Politics** This course examines political processes and governmental structures in Europe. It focuses especially on The United Kingdom, France, Germany, Italy, Spain and Poland as specific case studies. Among the topics covered are: political parties, elections, voting systems, interest groups, legislative-executive relations, constitutional principles, political elites, leadership behavior, and bureaucracies. Prerequisite: POS 101 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. Prerequisite: POS 104 or permission of the instructor. Cr 3.

**POS 354 African Americans and American Justice** This course is an exploration and analysis of selected U.S. Supreme Court ruling on cases related to African American citizenship, civil rights and equal treatment during the nineteenth and twentieth centuries. This course also explores the changing boundaries and content of state and national citizenship, from the early national period (during the slavery era) to the mid twentieth century. Prerequisite: EYE and sophomore status, or permission of the instructor. Cr 3.

**POS 355/HTY 347 Race and the Politics of Mass Incarceration** This course examines the cultural, political and institutional dynamics that produced and sustain mass incarceration in the United States. The course takes a short-range historical approach to studying linkages between the intersection of mass incarceration, racism, sexism, and poverty, and how these forces impact individuals, families, and communities of color. 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?” Prerequisite: POS 101 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; and the role of non-governmental influences. The course is designed to evaluate current policy goals and practices within the context of long-range goals. Prerequisite: POS 101 or permission of the instructor. Cr 3.

**POS 380 Topics** Specially developed occasional courses exploring a variety of theoretical and substantive areas of political science. May be repeated for credit as topics vary. Cr 1-3.

**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 nontraditional challenges such as economic and environmental security. Prerequisite: POS 104 or permission of the instructor. Cr 3.

**POS 390 Ancient and Medieval Political Theory** An intensive study of ancient and medieval political theory. Emphasis is on textual criticism of a variety of different works including those from philosophy, literature, and theology. Prerequisite: POS 290, or sophomore status, or permission of the instructor. Cr 3.
POS 392 American Political Thought I  An examination of central concepts and debates in American political history from the Puritan Era to the Dred Scott decision, with particular attention to debates on authority, liberty, revolution, slavery, and emerging ideas of American individualism. Prerequisites: POS 290 or PHI 109 or HTY 121 or HTY 122 or permission of the instructor. Cr 3.

POS 393 American Political Thought II  An examination of American political thought from the Civil War to the War on Terror, with particular attention to debates on authority, anarchism, race, and power. 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 405 The European Union  An examination of a unique example of political, economic, and cultural integration. The course will emphasize the evolution, enlargement, international positioning, and political organization of the European Union. Prerequisite: POS 101 or POS 102 or POS 104 or POS 205, or permission of the instructor. Cr 3.

POS 406 Research in the European Union  Advanced course on the political, economic, and cultural aspects of the European Union, offered exclusively for students who enroll in the summer abroad program, "The European Union in Brussels." Participants will travel to Brussels and The Hague for presentations at the EU institutions, NATO, and the International Criminal Court. Prerequisite: recommended, but not required, POS 205 or any other course with an international content. Cr 3.

POS 445 MeMUNC Conference Planners  Students research international issues, produce a background guide for the Maine Model United Nations Conference (MeMUNC), organize the conference, and train in parliamentary procedure. University students lead a program that serves the local, state, and regional community by exposing high school students to the complexities of international relations. Prerequisite: Permission of the instructor. Cr 3.

POS 446 Global Educators  Students combine theory and practice, obtaining the skills to teach high/middle school students about global issues and peaceful conflict resolution through Model United Nations. Global Educators are placed in a school to lead weekly student preparation for the Maine Model United Nations Conference (MeMUNC) taking place every May. Prerequisite: Permission of the instructor. Cr 3.

POS 463 Supreme Court and Constitutional Law  The course examines how the Supreme Court interprets Constitutional provisions that affect the structure of government. Major topics include federalism, separation of powers, and economic rights. Both legal and extra-legal models of decision making are considered. Prerequisite: POS 101. Cr 3.

POS 464 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. Prerequisite: POS 101 or permission of the instructor. Cr 3.

POS 475 Political Science Internship  Provides academic framework for students who are working in the community in a politically-related position during the semester. Students meet for a series of seminars, for which readings and reports will be required. The seminars facilitate reflection that connects social science frameworks to work experience. 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. Readings and research reports are required. Prerequisite: open to selected students from any major. Cr 9.

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. Students will meet for a series of internship seminars, for which readings and reports will be required. Prerequisite: open to selected students from any major. Cr 6.
Sociology Overview

Professor: Chapkis;  Associate Professor: Laz; Assistant Professor: Everson

In the Sociology Program you will study the relationship between individual experience and broader social forces. Sociology will assist you in understanding the role of social structures in the creation - and dismantling - of class, race, sexuality, and gender inequalities. Studying sociology will expand your skills in critical thinking, writing, and analysis through an exploration of social problems and social change.

A degree in sociology will help prepare you for a career in social work, social research, criminal justice, community organizing, business and education.

The major also provides an excellent basis for graduate study in sociology, law, public policy, and social work.

Additional Information

Alpha Kappa Delta

The Sociology Program is affiliated with the international sociology honor society, Alpha Kappa Delta. Juniors and seniors who are officially declared majors or minors, or who have demonstrated an interest and involvement in sociology, have accumulated at least a 3.3 overall grade point average, have completed four or more sociology courses at USM with a sociology grade point average of at least 3.0 are eligible for nomination to Alpha Kappa Delta.

Graduating with Distinction in Sociology

For a B.A. degree in Sociology with Distinction, a student must achieve a GPA of 3.6 or higher, calculated on the basis of a minimum of five USM Sociology courses taken prior to the last semester.

Internships

The Sociology Program offers a strong and on-going internship program. The program helps place students in community agencies and organizations to bring together student academic work and community involvement. Students interested in an internship placement are encouraged to work with their advisor to begin preparation for an internship the semester prior to the one in which they intend to register for the internship course.

BA in Sociology

Description

Sociology studies the relationship between individual experience and broader social forces. Sociology will assist you in understanding the role of social structures in the creation - and dismantling - of class, race, sexuality, and gender inequalities. Studying sociology will expand your skills in critical thinking, writing, and analysis through an exploration of social problems and social change. An undergraduate major in sociology offers valuable preparation for careers in social work, social research, criminal justice, community organizing, business, and education.

The major also provides an excellent basis for graduate study in sociology, law, public policy, and social work.

Program Requirements

Requirements for the Baccalaureate Degree

All students are reminded that, in addition to meeting Program requirements for a major leading to a baccalaureate degree, they must also meet the requirements of the College of Arts, Humanities, and Social Sciences and the University's Core curriculum.
Major Credit and Grade Policy

The prerequisites for all 300-level sociology courses are SOC 100 and SOC 210 with grades of C or better. 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.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36.

Required Prerequisites for all advanced sociology courses (6 credit hours)
SOC 100 Introduction to Sociology
SOC 210 Critical Thinking About Social Issues

Required Courses (9 credit hours)
SOC 300 Sociological Theory
SOC 301 Qualitative Research Methods
SOC 307 Quantitative Research Methods

Elective Courses--choose from among the following (21 credit hours)
SOC 315 Self and Society
SOC 316 Sociology of Gender
SOC 318 Childhood and Society
SOC 323 Sociology of Death and Dying
SOC 327 Social Movements
SOC 330 Sociology of the Family
SOC 331 School and Society
SOC 333 Medical Sociology
SOC 334 Sociology of Religion
SOC 343 Social Psychology
SOC 348 Sociology of Work
SOC 352 Demography
SOC 355 Politics and Society
SOC 357 Organization: Individual and Society
SOC 358 Sociology of Women's Work
SOC 359 Leisure and Consumption under Global Capitalism
SOC 363 Food, Culture and Society
SOC 365 Sociology of the Body
SOC 370 Sociology of the Environment
SOC 371 Sociology of Race and Ethnicity
SOC 374 Mental Health and Mental Illness
SOC 380 Topics in Sociology
SOC 390 Individualized Instruction I
SOC 391 Individualized Instruction II
SOC 392 Poverty: Policy and Perspectives
SOC 393 Women, Welfare, and the State
SOC 395 Internship
SOC 450 Undergraduate Teaching Assistantship

Minor in Sociology

Description

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 Nursing and Health Professions, the School of Business, the School of Education and Human Development, the School of Social Work, and non-social-science disciplines in the College of Arts, Humanities, and Social Sciences.

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

Twelve credit hours are required courses; the remainder are sociology electives.

Required courses: SOC 100, SOC 210, SOC 300, and SOC 301 or SOC 307.

Sociology electives: Each student minoring in sociology elects a minimum of two upper-division courses from those offered by the Sociology Program. 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 Program 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: Sociology Program, University of Southern Maine, P.O. Box 9300, Portland, Maine 04104-9300 or telephone: (207) 780-4100.

Course Descriptions

Sociology Course Descriptions

SOC 100 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 150 Social Networks and the Value of Diversity
Examines social networks and the causes, qualities, and consequences of those ties connecting us together. Students will be introduced to the major sociological theories of social networks and social capital. Issues of difference and diversity will be investigated in relation to social networks. Students will learn how status differences shape our access to resources, our mobilization of social capital, and future status attainment. Cr 3.

SOC 210 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 100 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. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 301 Qualitative Research Methods
This course provides an overview of the process of social research utilizing qualitative methods. Topics include the logic and principles of the research process, as well as specific techniques in qualitative research (e.g., writing field notes, conducting interviews, analyzing qualitative data). Students will apply research skills in settings outside the classroom. Prerequisite: SOC 210 with a grade of C or better or permission of instructor. Cr 3.

SOC 307 Quantitative Research Methods
This course provides an overview of the social scientific research process, utilizing quantitative methods. Students generate research questions and testable hypotheses and analyze a variety of secondary data sources. Specific statistical topics include: measures of central tendency, measures of dispersion, t-testing, analysis of variance, cross-tabulation, measures of association, linear regression, and multiple regression. The course includes a computer lab component. Prerequisites: SOC 210 with a grade of C or better and completion of mathematics proficiency, or permission of instructor. Cr 3.

SOC 315 Self and Society
This course explores the social construction of self as the result of both face-to-face and societal-level social processes such as language acquisition, identity development, and the effects of culture and social structure on individual and collective conceptions of selfhood. Readings and discussions focus on the relative contributions of individual self-determination and societal constraints on selfhood. Specific topics include childhood identity development, social stigma and societal definitions of normality, social structure and self-esteem, and cross-cultural differences in the concept of selfhood. Prerequisite: SOC 210 with C or better 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: SOC 210 with C or better or permission of instructor. 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. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 322 Sociology of Death and Dying
This course focuses on some of the central issues in the sociology of death and dying: the social construction of grief and loss, the experience and meaning of death and dying in the late modern world, the politics of meaning making in the face of collective trauma, and the relation of pain and death and their representation to the making and unmaking of social order. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 327 Social Movements
This course is divided into two sections: social movement theory and social movement cases. First, students will explore the three dominant theoretical approaches covering the micro, meso, and macro context of social movements. These include framing and interpretive processes, mobilizing structures, and political opportunities. The “classic” U.S. social movement of the 1960s (civil rights, women's liberation, anti-war, and free speech) and 1970s-80s (environmental and peace) will be utilized as historical cases to comprehend social movement theory. The second section of the course will address contemporary movements including (but not limited to) labor, anti-globalization, local alternatives, and the new peace movements. Prerequisite: SOC 210 with C or better 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: SOC 210 with C or better 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: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 333 Medical Sociology
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: SOC 210 with C or better 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: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 343 Social Psychology
This course provides an overview of sociological theory and research in social psychology on the central topics of social perception, social communication, and social interaction. The course focuses on the impact of societal factors such as gender, race, and class on face-to-face behavior and on how face-to-face interaction contributes to the creation and maintenance of social structure. Specific topics include social psychological methods; causes and consequences of stereotyping; gender, power, and conversation; status structures in small groups; distributive justice; and social dilemmas. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 348 Sociology of Work
This course surveys three strands of the literature: the nature of work under capitalism, the consequences emerging from such labor, and alternatives to capitalist relations in production. Specific topics include work in the global economy, Fordism and flexible capitalism, the division of labor, labor markets, control in the workplace, corporate dominance, jobs and the class structure, alienation, and workplace democracy. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 352 Demography
Fertility, mortality, and migration as they affect 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 population 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: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 355 Politics and Society
This course will focus on power relationships in U.S. society, with some cross-national comparisons. Specific topics to be covered include the nature and distribution of power among social groups and organizations, theories of the state, social class and political participation, policy formation, and the interactions between democracy as a political system and capitalism as an economic system. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 357 Organizations, Individuals, 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: SOC 210 with C or better 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: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 359 Leisure and Consumption under Global Capitalism
This course will use sociological concepts, paradigms, and research methods to engage students in a critical examination of leisure and consumption preferences and practices among the working, middle, and upper classes in the developed nations, especially the United States. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 363 Food, Culture, and Society
This course views food production, processing, distribution, and consumption as social and cultural phenomena. The course develops a sociological framework for understanding and connecting the diverse food stories in the headlines: GMOs, obesity, agricultural subsidies, food safety, organics. Students will also gain a better understanding of their own food choices and opportunities for changing our food system. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 365 Sociology of the Body
This course examines the body as a text marked by, and rendered meaningful through, social categories of race, gender, class, sexuality, disability, and disease. This writing- and reading-intensive course discusses both social constructionist and biological determinist perspectives on embodied difference. Prerequisites: SOC 210 with C or better and one or more of SOC 300, SOC 316, WST 380, WST 390. Cr 3.

SOC 370 Sociology of the Environment
Sociology of the Environment is the study of the complex relations between the social world and the natural environment. The sociologist is particularly interested in the role played by popular culture, economic systems, urbanization, rationalization, globalization, race, and gender relations (environmental justice) in the creation and continuation of various environmental problems. Thus the course refers to efforts to understand and illuminate the societal dynamics in terms of social practices citizens engage in as they go about their lives. Cumulatively these social practices produce particular consumption and use patterns that have significantly altered the natural world. Prerequisite: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 371 Sociology of Race and Ethnicity
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: SOC 210 with C or better or permission of instructor. 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: SOC 210 with C or better or permission of instructor. 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: SOC 210 with C or better or permission of instructor. Cr 3.

SOC 390 Individualized Instruction I
**SOC 391 Individualized Instruction II**
Continuation of independent reading and/or research for juniors and seniors. Apply to Department chair. Prerequisite: 15 hours in sociology. Cr var.

**SOC 392 Poverty: Policy and Perspectives**
This course will analyze the causes of and responses to poverty in the United States. Relying on multidisciplinary literature, this course examines measures and theories of poverty; public, political, and policy debates; and the role of government in income distribution/redistribution. Particular attention will focus on issues of power, wealth, gender, and race as well as education, health, housing, and place as factors inextricably linked to poverty. Prerequisites: SOC 210 with a C or better, SOC 301 and SOC 307 recommended, or permission of instructor. Cr 3.

**SOC 393 Women, Welfare, and the State**
The course explores the gender bias of social welfare policy in the U.S., revealing a welfare state whose adherence to central elements such as the Protestant work ethic, "family values," and a laissez-faire economy excludes over half the population. From both historical and theoretical perspectives, the course examines the development of the American welfare state, compares it to Western and Eastern European states, and assesses its impact on women's lives. Prerequisites: SOC 210 with a grade of C or better and junior/senior standing, or permission of instructor. Cr 3.

**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. Contact Sociology Program for details. Cr 4 to 6.

**SOC 450 Undergraduate Teaching Assistantship**
In working closely with faculty, undergraduate teaching assistants will gain insight into course materials and into all aspects of college teaching. This experience will be especially valuable for students who plan to do graduate work in sociology and for students exploring a career in teaching. Teaching assistants also provide an additional resource for assistance, advice, and modeling. Undergraduate teaching assistants generally assist faculty in course preparation and delivery including locating and reviewing materials for course use; assisting with the design of course schedule, exercises, assignments, and class presentations; lecturing and supervision of student groups; and providing feedback to students on their work. In addition, teaching assistants hold regular office hours. Enrollment in SOC 450 will depend on Departmental needs and course offerings. Selection is made by the faculty. Students should contact the Sociology Program office for details. Prerequisite: SOC majors by permission only. Cr 3.
Theatre Overview

Chair of the Department: Andrew Harris
Associate Professor: Kent; Visiting Professor: Libkin; Lecturers: Harris, Valentine
Adjuncts: Anderson, Baker, Beyland, Boudewyns, Carville, Chabora, Legawiec, Tzianabos
Staff: Technical Director: Fertig; Costume Director: Grywalski; Administrative Specialist II: Campbell; Box Office Manager: Arsenault

The Department of Theatre offers a four-year program leading to a B.A. degree in Theatre. An undergraduate degree in Theatre offers valuable preparation for careers in educational or professional theatre as well as other nonrelated disciplines.

All students are reminded that in addition to meeting departmental requirements for the major, they must also meet the requirements of the College of Arts, Humanities, and Social Sciences as well as the Core Curriculum requirements.

Additional Information

Theatre Department Production Requirements

The Department of Theatre requires each major to participate in Theatre Department functions by completing Theatre Workshop courses and Department projects. Credit for these may be earned separately or concurrently according to departmental guidelines. Each Theatre major must enroll in Theatre Workshop each semester the student is a Theatre major. Theatre Workshop courses require, in part, participation in an approved Department project. These projects must be completed in a variety of discipline areas. All cast and crew members of Department productions are required to participate in the closing night clean-up (strike) for that show.

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 Department of Theatre urges students 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 outside projects into their overall program.

Fees

Materials and/or admission fees may be required for some Theatre courses. Please contact the Theatre office at 780-5480 for specific requirements.

Enrollment Waivers

Students who believe they are qualified to enroll in a Theatre course, but have not completed the prerequisites for that course, may request the instructor's permission to enroll. In addition to Theatre prerequisites, all Theatre classes are also subject to Core curriculum requirements.

Graduating with Distinction in Theatre

For a B.A. degree in Theatre with distinction, a student must achieve a 3.7 GPA or higher in courses taken in the major.

BA in Theatre

Description

The Department of Theatre offers a four-year program leading to a B.A. degree in Theatre. An undergraduate degree in Theatre offers valuable
preparation for careers in educational or professional theatrical activities, as well as other nonrelated disciplines.

All students are reminded that, in addition to meeting departmental requirements for the major, they must also meet the requirements of the College of Arts, Humanities, and Social Sciences as well as the Core Curriculum requirements.

**Program Requirements**

The minimum number of credits (exclusive of the University's Core Curriculum) required for the major: 59-62.5.

All majors or intended majors are required to take .5 credits of Theatre Workshop (THE 141, 142, 143, 144) each semester (maximum of 4 credits required). THE 141, 142, 143, and 144 may be repeated only twice for credit. Please see a Theatre advisor for information on exceptions to this Workshop policy.

Theatre students who fail to maintain a 2.5 GPA in Theatre courses and a 2.0 overall GPA may not be allowed to participate in Department productions in either an acting or technical capacity (except for lab duties or requirements related to coursework). These 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 (all courses are 3 credits unless otherwise noted):

**Foundations/Practicums (17.5 credits)**

THE 101 Introduction to Theatre
THE 104 Practicum in Costuming (1.5 credits)
THE 105 Practicum in Stage Lighting (1.5 credits)
THE 106 Practicum in Stagecraft (1.5 credits)
THE 134 Production Management and Stagecraft
THE 141-144 Theatre Workshop I - IV (.5 credits for eight semesters, total: 4 credits):
THE 141 (2 semesters); THE 142 (2 semesters); THE 143 (2 semesters); THE 144 (2 semesters)
THE 170 Public Speaking

**History/Literature (12 credits)**

THE 150 Text Analysis
THE 351 Dramatic Literature and Theatre History I
THE 352 Dramatic Literature and Theatre History II
THE 353 Dramatic Literature and Theatre History III

**Design (12 credits)**

THE 230 Fundamentals of Design
*Take three (3) design courses:*
THE 331 Scenic Design
THE 334 Costume Design
THE 335 Lighting Design
THE 337 Sound Design

**Acting (12 credits)**

THE 120 Acting: Stage Movement
THE 220 Acting: Scene Study
THE 221 Acting: Stage Voice
THE 322 Acting: Contemporary Methods

**Electives (6 credits)**

Two (2) Theatre courses (other than THE 190 and/or THE 290), at least one of which must be at the 200 level or above.

**Capstone (3 credits)**

THE 495 Theatre Capstone
Electives from other departments may be taken in lieu of Theatre courses if approved by a Theatre Department vote.

Suggested areas of emphasis include: Performance, Design, Technical Theatre, and Dramatic Literature & Theatre History.

BM in Performance - Musical Theatre

Description

The study of musical theatre performance at the University of Southern Maine is offered as a collaboration between the School of Music and the Department of Theatre. It is designed for those individuals who wish to pursue a career in musical theatre performance. Private lessons in voice, solo, and ensemble performance as well as theatrical dance training are emphasized. This degree concentration complies with NASM guidelines for a degree in Music Performance with an emphasis in Musical Theatre.

Program Requirements

The Musical Theatre degree is granted by the School of Music as a Bachelor of Music in Performance-Musical Theatre (MUP). For additional information regarding specific School of Music required courses, please refer to the School of Music section of the catalog or click on this link: http://usm.maine.edu/music/bm-performance-musical-theater

Minor in Dance

Description

See Program Requirements

Program Requirements

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

DANCE MINOR: The courses required are THE 103, THE 109, and THE 203. The student must take three other courses chosen in consultation with a Theatre Department advisor in accordance with the interests of the student. THE 103 and/or THE 203 may each be repeated once to count toward the three other classes required for this minor.

Minor in Theatre

Description

Please see Program Requirements.

Program Requirements

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

THEATRE MINOR: The courses required are THE 101, THE 134, THE 150, and either THE 120 or THE 220 with permission of instructor. The student must take two other courses chosen in consultation with a Theatre Department advisor in accordance with the interests of the student.
Course Descriptions

In the event that students believe they are qualified to enroll in a Theatre course, but have not completed the USM prerequisites for that course, they may contact the Department to request permission to enroll.

THE 101 Introduction to Theatre
This course provides a general introduction to all facets of theatre including dramatic literature, theatre history, acting, directing, playwriting, design, management, and theatre spaces, among others. Cr. 3.

THE 102 Acting for Non-Majors
This course will introduce students to theatre through the eyes of the performer. Students 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 103 Contemporary Dance I
This course is designed to teach basic contemporary dance skills and vocabulary. The class is divided into two areas of study. Physical and technical development are learned through strengthening and stretching exercises. Proper body alignment is stressed for the most efficient and injury-free movement. Dance phrases are taught to enhance rhythmic and locomotor skills. Equal time will be devoted to improvisational skills and the study of choreographic techniques. Students will be required to attend contemporary dance performances. Course may be repeated once for credit. Cr. 3.

THE 104 Practicum in Costuming
A course focusing on sewing skills and costume construction for University theatre productions. Cr. 1.5.

THE 105 Practicum in Stage Lighting
A course focusing on the practical application of contemporary stage lighting technology and the implementation of a lighting plot. Cr. 1.5.

THE 106 Practicum in Stagecraft
A course focusing on the construction, painting, and mounting of sets and stage properties for University theatre productions. Cr. 1.5.

THE 109 The Art of Dance
This is a lecture, discussion, and practice course that covers the history of modern dance from the turn of the 20th century to the present day. Students will learn about the progression of the modern dance movement, its origins, and how the influences of each decade changed the art form. We will investigate various dance principles, styles, and aesthetics through the use of audio/visual materials, performance observation, written and reading assignments, and movement explorations. Prerequisite: College Writing. Cr. 3.

THE 120 Acting: Stage Movement
This is a practicum course designed to introduce students to basic elements of the creative process of acting. Topics include kinesthetic awareness, techniques of acting theorists ranging from Michael Chekhov to Rudolph Laban, methods of character creation, elementary stage combat, improvisation, and voice and diction for the stage. Course culminates with student presentation of an original performance piece. Cr. 3.

THE 130 Musical 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. Prerequisite: restricted to Musical Performance majors with an emphasis in musical theatre. The course may be repeated for credit. Cr. 0.5.

THE 131 Musical Theatre Workshop II
A continuation of THE 130. Prerequisite: THE 130, restricted to Musical Performance majors with an emphasis in musical theatre. The course may be repeated for credit. Cr. 0.5.

THE 132 Musical Theatre Workshop III
A continuation of THE 131. Prerequisite: THE 131, restricted to Musical Performance majors with an emphasis in musical theatre. The course may be repeated for credit. Cr. 0.5.

THE 133 Musical Theatre Workshop IV
A continuation of THE 132. Prerequisite: THE 132, restricted to Musical Performance majors with an emphasis in musical theatre. The course may be repeated for credit. Cr. 0.5.

THE 134 Production Management and Stagecraft
A survey/lab course designed to familiarize students with the organizational procedures of the theatre production process and stagecraft. Major areas of study include stage management, theatre production management, and stagecraft. Additional topics include the operation of theatre equipment, crew responsibilities, production scheduling, scene shop practices, and basic methods of construction and rigging for the stage. This course includes a crew requirement for a University production. Cr. 3.

THE 139 Theatrical Make-up
A practicum course in the fundamentals of design and application of theatrical make-up. Specific areas of study will include the relationship of character analysis to make-up; techniques of highlight and shadow; and make-up for youth, middle, and old age. Additional exercises introduce historical styles, creating a likeness, and nonrealistic make-up. Students will frequently apply theatrical make-up to their own faces in class. Cr. 3.

THE 141 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 once for credit. Cr. 0.5.

THE 142 Theatre Workshop II
A continuation of THE 141. Prerequisite: THE 141. The course may be repeated once for credit. Cr. 0.5.

THE 143 Theatre Workshop III
A continuation of THE 142. Prerequisite: THE 142. The course may be repeated once for credit. Cr. 0.5.

THE 144 Theatre Workshop IV
A continuation of THE 143. Prerequisite: THE 143. The course may be repeated once for credit. Cr. 0.5.

THE 150 Text Analysis
Text Analysis teaches students myriad ways of approaching, interpreting, and synthesizing texts (written, visual, and aural), especially scripts. Students will learn the skills necessary for actors, directors, designers, dramaturgs, and scholars to explore and deconstruct texts in search of meaning, clues for staging possibilities, and cultural context. Cr. 3.

THE 170 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 175 Oral Interpretation of Texts
A course in the analysis and performance of texts (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 190 Rehearsal and Production
This course provides students with an opportunity to work on a USM theatre production. Production assignment positions include, but are not limited to, wardrobe crew, deck crew, board operators, spot operators, etc. Must be simultaneously enrolled in one section of Theatre Workshop or Musical Theatre Workshop or secure instructor permission. May be repeated for credit. Cr. 1.

THE 201 Cultural History of Theatre
A course designed to provide students with a cultural history survey of theatre—from ancient Sumeria, Greece, and Rome through traditional Asian, Medieval, and Renaissance European and other historical styles/periods into the twenty-first century. Prerequisite: College Writing. Cr. 3.

THE 203 Musical Theatre Dance
This course will build upon basic movement skills with an emphasis on the dance styles required for musical theatre. Techniques offered will include jazz, ballet, and tap. In addition to skill training, class projects will include the staging and choreography of musical theatre selections. Cr. 3.

THE 204 Dress and Self Image
This course examines clothing from social, psychological, and aesthetic perspectives. Students will learn how people make sense of their lives and their world, the cultural production of meaning represented by attire, appearance, and presentation. Prerequisite: College Writing. Cr. 3.

THE 220 Acting: 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. Prerequisite: THE 120. Cr. 3.

THE 221 Acting: Stage Voice
This course emphasizes the development of the actor's voice, providing a progression of exercises to free and strengthen the voice as a tool of creative expression. The elements of vocal projection, range, diction, placement, and characterization will be explored. Prerequisite: THE 120. Cr.
THE 224 Screen Acting
This course focuses on acting for film, television, industrials, commercials, and the web, among others. The course will emphasize the difference between stage and screen acting techniques. 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. Prerequisite: THE 220. Cr. 3.

THE 230 Fundamentals of Design
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 multimedia design projects. Cr. 3.

THE 234 Performance Business
Investigation of performance business best practices including business plans in the performing arts, theatre company creation budgeting, marketing, promotions and electronic media, performance health, and educational/professional theatre management roles. This course includes a promotions practicum. Cr. 3.

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 Practicum in Design required. Prerequisite: THE 135. Cr. 3.

THE 236 Practicum in Design
A course focusing on the practical application of theory relevant to scenic, costume, lighting, and other theatre-related design topics. 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 150. Cr. 3.

THE 271 Creative Drama
Study of methods for 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 290 Advanced Rehearsal and Production
This course provides students with an opportunity to work on a USM theatre production. Production assignment positions include, but are not limited to actors, stage managers, assistant stage managers, designers, assistant designers, etc. Must be simultaneously enrolled in one section of Theatre Workshop or Musical Theatre Workshop or secure instructor permission. May be repeated for credit. Cr. 3.

THE 303 Musical Theatre Performance
This course will provide students the opportunity to combine the skills of singing, acting, and dance as demanded by the art of musical theatre. In addition to vocal coaching, acting exercises, and choreography, students will be exposed to a variety of musical theatre genres and will be performing throughout the semester. The class will culminate with a public presentation. Prerequisites: THE 203 and THE 220. Cr. 4.

THE 321 Acting: Advanced Scene Study: Playwright Focus
This is a practicum for advanced actors, providing an in-depth scene study focusing on one or more playwrights. Emphasis will also be given to preparation for auditions. Prerequisite: THE 220. Cr. 3.

THE 322 Acting: Contemporary Methods
This course will introduce a variety of acting techniques developed by master artists, beginning with an overview of the Stanislavski System and advancing to the work of Lee Strasberg, Sanford Meisner, Uta Hagen, Augusto Boal, and others. These techniques will be applied to exercises, scenes, and monologues performed throughout the semester. Prerequisite: THE 220. Cr. 3.

THE 325 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. Prerequisites: THE 150, and THE 230, or instructor permission. Cr. 3.

THE 331 Scene Design
Lecture and practicum in stage scenic design. Emphasis on the visual art and drafting of designs. Prerequisites: THE 150 and THE 230. Cr. 3.

THE 334 Costume Design
This course introduces students to costume history and design, emphasizing the rendering and visual presentation of costume designs. Students learn by using the elements and principles of design, script and character analysis, and costume history research. Prerequisites: THE 150 and THE 230; THE 230 may be taken concurrently. Enrollment in THE 104 Costume Practicum is not required, but recommended. Cr. 3

THE 335 Lighting Design
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 150 and THE 230; THE 230 may be taken concurrently. Cr. 3.

THE 337 Sound Design
An introduction to the art and techniques of sound design. The class examines the creation of audio for a production environment, with emphasis on industry-standard recording techniques and communication tools, script and environmental analysis, and equipment and delivery systems. Prerequisites: THE 150 and THE 230; THE 230 may be taken concurrently. Cr. 3.

THE 351 Dramatic Literature and Theatre History I: Origins to 1500
This course examines Greek, Roman, and Medieval theatre history and dramatic literature. THE 351 asks students to think about theatre and dramatic literature in a broad array of cultural contexts. This class focuses on sharpening students' written and oral communication and critical thinking skills. Prerequisites: College Writing, THE 150; THE 150 may be taken concurrently. Cr. 3.

THE 352 Dramatic Literature and Theatre History II: 1500-1800
This course examines the dramatic literature and history of traditional Asian, Renaissance, Restoration, and Enlightenment theatres. THE 352 asks students to think about theatre and dramatic literature in a broad array of cultural contexts. This class focuses on sharpening students' written and oral communication and critical thinking skills. Prerequisites: College Writing, THE 150; THE 150 may be taken concurrently. Cr. 3.

THE 353 Dramatic Literature and Theatre History III: 1800-present
This course examines the dramatic literature and history of Romanticism, Realism, Naturalism, Expressionism, Epic Theatre, Absurdism, and Contemporary Theatre. THE 353 asks students to think about theatre in a broad array of cultural contexts. This class focuses on sharpening students' written and oral communication and critical thinking skills. Prerequisites: College Writing, THE 150; THE 150 may be taken concurrently. Cr. 3.

THE 375 Performance Art
This theory and practice course allows students to balance ethics and creativity in image-making, while experimenting with the aesthetic interpretation of texts. Visual/performative projects focus on extra-textual elements such as sound and low-tech light, visual symbols/images, found environments, and/or installations. Theoretical and practical readings accompany black box exercises and one public performance. Cr. 3.

THE 420 Acting: Styles
This course will examine the styles of acting found in the Classical (Greek and Roman), Elizabethan, and eighteenth- and nineteenth-century dramas. Prerequisite: THE 220. 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 220, or instructor permission. Cr. 3.

THE 430 Topics in Design
A seminar in advanced design practices, 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 two of the three 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: instructor permission only. Cr. 3.

THE 434 Advanced Costume Design
This course will continue the study of costume design begun in THE 334. 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 334. 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 nine credits. Prerequisites: College Writing, THE 150; THE 150 may be taken concurrently. Cr. 3.

THE 490 Independent Study
Students should contact the Department regarding information for independent study. Prerequisite: permission of the Theatre Department. May be repeated for credit. Credit hours arranged.
THE 491 Independent Project
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. Students must obtain rules and guidelines for this course from the department chair. May be repeated for credit. Prerequisite: junior or senior standing and permission of the Theatre Department. Credit hours arranged.

THE 492 Theatre Internship
Students will assume a full one-semester internship with a professional theatre or Readers 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. May be repeated for credit. Credit hours to be arranged. Cr. 3-15.

THE 493 International Tour
Students in this course will rehearse an original or scripted production which will be performed at USM and then transported for presentation to an international venue determined by the instructor. Prerequisite: instructor permission only. Cr. 3.

THE 495 Theatre Capstone
This capstone course provides students with opportunities to investigate their areas of interest in Theatre in depth and create the performance pieces, designs, stage management documents, dramaturgy, etc. necessary for professional portfolios to represent themselves in the workplace. Students will also develop a career plan in order to map out a path for employment or further training upon leaving USM. Prerequisites: College Writing & THE 150. Cr. 3.
Lewiston-Auburn College

LAC Overview

Dean: Joyce T. Gibson; Director of Finance and Administration: Pam Roy; Internship Coordinator: Sandi Croft; Administrative Specialists: Danielle Letourneau, Jodi Redmun

Professors: Roxie Black, Ike Levine, Carol Nemeroff, Steve Romanoff
Associate Professors: Paul Caron, Rose Cleary, Tara Coste, Christy Hammer, Josie LaPlante, Liz Turesky, Michelle Vazquez-Jacobus, Blake Whitaker
Assistant Professors: Dan Jenkins, Susan Noyes, Mary Anne Peabody, Mark Silber
Lecturers: Mary Anderson, Tammy Bickmore, Sarah Grinder, Gabby Petruccelli

Lewiston-Auburn College (LAC) has several distinguishing characteristics: interdisciplinary majors in Leadership and Organizational Studies, Natural & Applied Sciences, and Social & Behavioral Sciences; student-centered learning; a community atmosphere; and a deep commitment to meeting regional needs. Faculty and staff are dedicated to engaging students in a transformative process in which self-awareness, content knowledge, relevant skills, and career development are merged in such a way that lifelong success and learning are intentional and expected.

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. The faculty is dedicated to learning as a shared experience between students and faculty. The interdisciplinary focus combines communication, teamwork, writing, fieldwork, critical thinking, civic engagement, and leadership and uses service-learning, career seminars, and internships to help students apply, synthesize, and integrate their learning.

Lewiston-Auburn College's interdisciplinary majors include:

- B.A. degree in Natural and Applied Sciences
- B.A. degree in Social and Behavioral Sciences
- B.S. degree in Leadership and Organizational Studies

In addition, the College offers:

- B.A. degrees which lead to secondary teacher certification in English, Social Studies, English, and Social Studies, and Life Sciences.
- B.S. degree in Nursing extended from USM's Portland-based School of Nursing and offered in its entirety at the Lewiston campus*

The College also offers master's degrees in:

- Occupational Therapy
- Leadership Studies

Please visit the Office of Admissions for undergraduate and graduate application information.

*Graduation requirements for extended degree programs can be found under their respective academic colleges.

Transfer Policies

USM's Lewiston-Auburn College works with all University of Maine System campuses and Maine Community Colleges, and CMMC's Maine College of Health Professionals (MCHP) to enable students who have received associate's degrees from these institutions to continue their education toward a baccalaureate degree from the University of Southern Maine. In most cases, credits transfer directly into the baccalaureate programs.

Students matriculated into USM's baccalaureate programs will receive transfer credit for all undergraduate courses successfully completed with a grade of C- or better at another University of Maine System institution. Transfer credits also may be awarded for courses completed at other regionally accredited institutions.

It is important for students to be aware of the transfer policy that applies to their particular situations.
Undergraduate Graduation Requirements

To be eligible for graduation with a baccalaureate degree and major, students must successfully complete all of the following:

- 120 credit hours including 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 overall grade point average of 2.0
- Per USM’s residency requirement: the last 30 credits taken must be completed at USM

B.S. in Nursing

The entry-level baccalaureate program in nursing is offered at Lewiston-Auburn College through the USM School of Nursing. Students admitted to this program at LAC will be able to complete all their coursework in Lewiston. The program is open to traditional first-year students and to adult learners. Full- and part-time options are available. For more information about this program, contact (207) 753-6624. Refer also to the School of Nursing section of this catalog for specific program information.

RN to B.S. Option

In recognition of the need for many registered nurses to earn a baccalaureate degree, the School of Nursing offers the RN to B.S. option at LAC. All courses required in this program are offered at LAC, and most classes meet once a week. Most students are part-time. For more information about this program, contact (207) 753-6624. Refer also to the School of Nursing section of this catalog for specific program information.

Graduation requirements for extended degree programs can be found under their respective academic colleges.

MOT Accelerated Option

Students may complete their undergraduate and graduate education in five (5) years by selecting this option. Students (WHO IDENTIFY AS MOT 4+1 AND) who are matriculated into LAC’s Social and Behavioral Sciences, Natural and Applied Sciences, or Gorham’s Health Science undergraduate programs must apply to the MOT program in the fall of their junior year. They must complete the following by August of the year they plan to enter the program:

- USM Core curriculum requirements;
- Academic major requirements; and
- MOT prerequisite requirements.

Please refer to the graduate catalog for more information.
Leadership Studies Overview

We promote the best in leadership knowledge and practice to improve the quality and diversity of leadership in organizations and communities -- regionally, nationally and internationally. We see leadership as an activity, not a position.

We believe in:

- Integrating theory and practice
- Reflection-in-action
- Continuous development
- Collaboration
- Creating sustainable enterprises
- Improving competitive advantage
- Social responsibility
- Systems thinking
- Strategic level change
- The value of diversity in all its forms
- Innovative thinking and practice

The Leadership and Organizational Studies major offers an accelerated pathway for students pursuing any USM undergraduate program. For more information on the accelerated pathway option, please click here.

Accelerated Graduate Pathway to Leadership Studies

For highly motivated undergraduate students who are already looking ahead to graduate school, USM offers an Accelerated Graduate Pathway to the Leadership Studies program that allows you to begin graduate study while completing your bachelor’s degree, saving you time and money -- which means you'll be ready for a career that much sooner, with your bachelor's and master’s degrees in hand.

In order to gain full admission into the Master of Arts in Leadership Studies accelerated pathway, a student must meet the following admission standards:

- Maintain at least a 3.00 undergraduate cumulative GPA (student must have a cumulative GPA of 3.00 at end of undergraduate career);
- Complete the following courses with grades of B+ or better: LOS 300, LOS 329, and LOS 350;
- Complete the following course with a grade of B or better: LOS 500.

Program Requirements

Students are required to maintain 3.0 GPA or higher and complete all conditions as outlined above. A minimum of 108 undergraduate credits and 36 graduate credits are required to complete both degrees.

Students must meet all previous conditions in order to continue from their undergraduate degree into the Master of Leadership Studies program. Students must be officially in the accelerated pathway in order to move from the undergraduate degree to the graduate program without a separate admissions process.

How to Apply:

- On the Common App, select your preferred choice of major, making sure it is one that qualifies for the Accelerated Graduate Pathway you’re choosing; then you will see the following option: “Please indicate your interest in one of the following accelerated pathway options at the University of Southern Maine” from which you can select a Pathway.

- In the University of Maine System application, select your First Choice Major, making sure it is one that qualifies for the Accelerated Graduate Pathway you’re choosing; then you will see the following drop-down menu: Accelerated Graduate Degree Pathway (First Choice Major), from which you can select a Pathway.
If you are a Transfer or Continuing Student, please contact the University of Southern Maine Advising Office to meet with an academic advisor who can review your previous coursework and determine your eligibility for entering an Accelerated Graduate Pathway. Please call (207) 780-4040 or email: usm.advising@maine.edu.

**Recommended Course Sequence**

Students wishing to progress through the graduate program in five years should take LOS 500: Foundations of Leadership I and LOS 550: Cultural Contexts during the fall semester and LOS 501: Foundations of Leadership II and LOS 512: Deliberate Creativity and Innovation during the spring semester of their fourth year of study. After successfully completing these four courses as well as all undergraduate requirements, students will complete their undergraduate degree and become matriculated as a graduate student in the MLS program.

**Accelerated Pathway Student Schedule**

- Shared Senior Year Fall: 500, 550
- Shared Senior Year Spring: 501, 512

**After Matriculation into the MLS Program**

- Summer One: 610, 2 electives* (one fulfilling the second context requirement)
- Fall Two: 611, 688, elective*
- Spring Two: 689, elective*

*Electives from outside of the program may be taken with prior approval from your faculty advisor

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**BS in Leadership and Organizational Studies - Integrative Professional Studies**

**Description**

The Integrative Professional Studies completion degree program is an option within the Leadership and Organizational Studies major and is intended to meet the needs of transfer and returning students* who have a variety of academic backgrounds, employment experience, and career aspirations. Students in the program complete their degrees through a combination of LOS courses, transfer credits, and prior learning assessment.

This program may be completed face-to-face on our Lewiston and Portland campuses, fully online, or through a combination of the two. For more information about the fully online option, contact Admissions at admitusm@maine.edu. For more information about our other options, contact a Student Success advisor at 207-753-6536.

Please visit the Office of Undergraduate Admission for application information.

*Returning USM students must not have been enrolled for at least 3 years in order to be eligible for this completion degree program option. This option is not available as a double major or dual degree.

**Program Requirements**

Requirements for students pursuing this concentration within the major are:

- At least 75 credits being transferred into the program*
- Completion of at least 120 credits
- Satisfaction of the 30 credit hours residency requirement for USM
- Satisfaction of the USM core curriculum requirements
- Completion of the following courses: LOS 299, LOS 300, LOS 350, LOS 301, and LOS 440 (students must receive a B- or higher in both LOS 300 and LOS 350)
- Completion of any Ethics course that is 3 credits or more and is 200+ level
• Completion of 12 credit hours in LOS electives that are 300+ level

*Returning USM students must not have been enrolled for at least 3 years in order to be eligible for this completion degree program option. This option is not available as a double major or dual degree.

Recommended Course Sequence

Students selecting this completion degree program as an option within the LOS major work closely with advisors to facilitate transfer credit, prior learning assessment, and course selection.

BS in Leadership and Organizational Studies

Description

The baccalaureate degree in Leadership and Organizational Studies (LOS) combines a liberal arts program with the study of how organizations operate and how leadership functions. It emphasizes the critical need to understand and work with people, the dynamics of change, the interdisciplinary nature of organizational operations, and the practical application of theories and leadership concepts. Drawing on faculty from diverse backgrounds, leadership and organizational studies is designed to prepare students for work in the nonprofit, public, or private sectors.

This program may be completed face-to-face on our Lewiston and Portland campuses, fully online, or through a combination of the two. For more information about the fully online option, please contact Admissions at admitusm@maine.edu.

The LOS program offers an accelerated pathway option for current USM students in any major. For more information on the accelerated pathway, please click here.

Please visit the Office of Undergraduate Admission for application information.

Program Requirements

Students must meet the USM Core Curriculum requirements for their catalog year of matriculation in addition to the LOS major requirements. The core courses of the LOS major will introduce students to the theory and practice of organizational behavior and leadership with emphasis on communication skills, problem-solving, critical thinking, key quantitative skills, and team functioning. Required and prerequisite courses for the major (47 credits) are:

Non-leadership Core Requirements or Prerequisite Courses (9 credits)

- Any basic accounting course (e.g., LOS 250 Org Accounting or ACC 110 Financial Accounting)
- Any basic statistics course (e.g., LAC 120 Statistics for Informed Decision Making)
- LAC 480 Senior Seminar (e.g., Capstone)

Requirements for the Major (28 credits)

- Any Ethics Course that is three or more credits and 200-level or higher (e.g., LAC 370 Toward a Global Ethics) 3-4 cr
- LOS 299 Writing in the Major 1 cr
- LOS 300* Organizational Theory 3 cr
- LOS 301 Group Dynamics 3 cr
- LOS 304 Organizational Budgeting 3 cr
- LOS 329 Research Methods 3 cr
- LOS 350* Leadership 3 cr
- LOS 440 Organizational Change and Development 3 cr
- LAC 269 Exploring Careers 1.5 cr
- LAC 413 Job Search 1.5 cr
- LAC 447 Internship 3-6 cr

*All LOS majors must earn a grade of B- or better in both LOS 300 and LOS 350. No waiver courses or substitutions will be permitted for LOS
Required electives for the Major (12 credits)
LOS majors must take any 4 LOS electives (LOS courses that are 300-level or higher). LOS Electives are listed below. They can be selected based on student interest or as concentrations, certificates, etc. Please note that not all LOS electives are available online.

- LOS 270 Exploring Leadership on Campus 3 cr
- LOS 302 Organizational Behavior 3 cr
- LOS 308 Lean Systems and Methods (Principles) 3 cr
- LOS 309 Lean Systems and Methods (Practicum) 3 cr
- LOS 310 Science, Technology, and Society 3 cr
- LOS 312 Human Resource Management 3 cr
- LOS 314 Employee Relations 3 cr
- LOS 315 Training and Development 3 cr
- LOS 316 Diversity in the Workplace 3 cr
- LOS 318 Database Management 3 cr
- LOS 323 The Media and Politics 3 cr
- LOS 325 Advancing Innovation in State and Local Government 3 cr
- LOS 326 Leadership in Sports 3 cr
- LOS 327 Leading through Conflict 3 cr
- LOS 330 Leadership in Different Cultures 3 cr
- LOS 337 Project Management 3 cr
- LOS 339 Women's Ways of Leading: Building Partnerships, Creating Change
- LOS 345 Leadership and Film 3 cr
- LOS 351 Exploring Transformational Leadership 1 cr
- LOS 352 Exploring Servant Leadership 1 cr
- LOS 353 Exploring Authentic Leadership 1 cr
- LOS 354 Exploring Chaos & Complexity Leadership 1 cr
- LOS 355 Exploring Relational Leadership 1 cr
- LOS 356 Exploring Followership 1 cr
- LOS 360 Innovation in Organizations 3 cr
- LOS 361 Entrepreneurship 3 cr
- LOS 362 Community Leadership and Civic Engagement 3 cr
- LOS 371 International Leadership Association Annual Global Conference 3 cr
- LOS 373 Managing Nonprofits 3 cr
- LOS 422 Leadership in the Public and Nonprofit Sectors 3 cr
- LOS 430 Applied Social Policy 3 cr
- LOS 436 Risk, Public Policy, and Society 3 cr
- LOS 470 Leadership Study Abroad 6 cr

In addition to completing these course requirements for the major, baccalaureate degree students must meet the proficiency and residency requirements of the University of Southern Maine, and complete the Core Curriculum and elective courses to accrue a minimum of 120 credit hours of coursework.

Prerequisites for 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-, or an equivalent.

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 may work with their advisor for this permission.

Recommended Course Sequence

We recommend that students start their Leadership Studies coursework with LOS 300 Organizational Theory and LOS 350 Leadership. Both courses must be passed with a B- or higher for LOS majors. Students should work with their advisors to organize the scheduling of the rest of their coursework.
Certificate in Creative Leadership and Global Strategy

Description

One of the most versatile certificates ever offered at the University of Southern Maine, the Creative Leadership and Global Strategy Certificate is an undergraduate certificate geared toward the student or community member interested in focusing on dynamic leadership skills. Select courses from the Leadership and Organizational Studies program blend deliberate creativity with organizational leadership in multicultural and multinational environments. The Creative Leadership and Global Strategy Certificate will help you meet the challenges of our dramatically changing global workplace.

This program may be completed face-to-face on our Lewiston and Portland campuses, fully online, or in a combination of the two. For more information about the fully online option, contact Admissions at admitusm@maine.edu.

*Please note certificates may be pursued by either matriculated students or non-matriculated students (students not pursuing a full degree program).*

Program Requirements

**Certificate Requires a Minimum of 12 Credits**

LOS 300 Organizational Theory 3 cr

LOS 330 Leadership in Different Cultures 3 cr, LOS 371 International Leadership Association Annual Global Conference 3 cr, or LOS 470 Leadership Study Abroad 6 cr

LOS 350 Leadership 3 cr

LOS 360 Innovation in Organizations 3 cr

*To view course descriptions, please visit our most recent [catalog page](#).*

**Recommended Course Sequence**

We recommend that students start their Leadership & Organizational Studies coursework with LOS 300 Organizational Theory, LOS 350 Leadership, or a combination of the two. Students should work with their advisors to organize scheduling the rest of their coursework.

Certificate in Environmental Wellness & Outdoor Leadership

Description

Based on a collaboration between Hurricane Island Outward Bound (HIOB) and the Education, Environmental Science & Policy, Leadership & Organizational Studies, and Recreation & Leisure Studies programs of the University of Southern Maine, this minor will allow both matriculated USM students and non-matriculated students from the general public to earn 13 university credits through a combination of online education and outdoor programming. Outward Bound’s collaboration with USM will provide the perfect setting for experiential learning with strong foundations in academic content from a variety of academic fields.
For more information on this certificate option, please contact one of the following faculty members:

Dr. Tara Coste, Leadership and Organizational Studies
tcoste@maine.edu or (207) 753-6596

Dr. Flynn Ross, Teacher Education
flynn.ross@maine.edu or (207) 780-5768

Dr. Rob Sanford, Environmental Science and Policy
rsanford@maine.edu or (207) 780-5756

Holly Bean, Doctoral Student, Therapeutic Recreation
holly.j.bean@maine.edu or (207) 780-4646

**Program Requirements**

**Required Courses (13 credits)**

- EDU 210 Theoretical Foundations of Learning 3 cr
- ESP 101 Fundamentals of Environmental Science 3 cr
- ESP 102 Fundamentals Lab 1 cr
- LOS 301 Group Dynamics 3 cr
- REC 233 Outdoor Recreation 3 cr

**Certificate in Leadership Studies**

**Description**

The certificate you have been waiting for is now available at the University of Southern Maine’s Portland and Lewiston campuses as well as online. The Leadership Studies certificate is an undergraduate certificate geared toward anyone interested in developing and expanding their leadership skills. Turn to the Leadership and Organizational Studies program to learn about and meet the challenges of our dramatically changing world.

This program may be completed face-to-face on our Lewiston and Portland campuses, fully online, or through a combination of the two. For more information or to apply, contact Admission at admitusm@maine.edu.

*Please note certificates may be pursued by either matriculated or non-matriculated students (students not pursuing a specific degree program).*

**Program Requirements**

**Certificate Requires 13 Credits**

LOS 300 - Organizational Theory 3 cr

LOS 301 - Group Dynamics 3 cr

LOS 350 - Leadership 3 cr

LAC 370 - Toward a Global Ethics 4 cr

**Recommended Course Sequence**
We recommend that students start their Leadership Studies coursework with LOS 300: Organizational Theory and LOS 350: Leadership. Students should work with their advisors to organize the scheduling of the rest of their coursework.

Certificate in Lean Leadership

Description

The Lean Leadership Certificate is an undergraduate certificate geared toward people interested in developing and/or expanding their skills in leading continuous process improvement (lean) initiatives. “Lean” is a system of eliminating wastes in time, resources, and materials, thereby increasing value to the customer -- in any market, from manufacturing to service sectors.

The majority of the courses required for this certificate meet face-to-face on the Lewiston and Portland campuses. A fully online option is not available for this certificate, though some courses are offered online. For more information about the Certificate in Lean Leadership, please call (207) 753-6536 and ask to speak to an Advisor.

Please note that certificates may be pursued by either matriculated students or non-matriculated students (those not pursuing a full degree program).

Program Requirements

Certificate Requires 12 credits

LOS 302 Organizational Behavior 3 cr
LOS 308 Lean Systems and Methods (Principles) 3 cr
LOS 309 Lean Systems and Methods (Practicum) 3 cr
LOS 440 Organizational Change and Development 3 cr

Recommended Course Sequence

LOS 308 Lean Systems and Methods (Principles) must be taken before LOS 309 Lean Systems and Methods (Practicum).

Concentration in Community Leadership & Civic Engagement

Description

There is a pressing need for leaders who can help communities and causes find common ground and come together around a shared vision. The concentration in Community Leadership and Civic Engagement helps students understand and apply leadership skills in community settings, and develop tools and strategies for engaging stakeholders and increasing civic participation. Students will acquire knowledge of best practices crucial to the success of community engagement efforts and healthy democracy.

This concentration may be completed face-to-face on our Lewiston and Portland campuses, fully online, or through a combination of the two.

Program Requirements

This concentration requires completion of the following courses (total of 18 credit hours):

Required Courses (12 Credits)
Minor in Leadership Studies

Description

One of the most exciting USM programs available! This minor consists of at least 15 credits and provides a cross section of key courses offered by the Leadership and Organizational Studies (LOS) degree program. At a time when our communities, organizations, country, and the world are searching for leadership to guide us through new complexities and global challenges, USM students can now study leadership processes in an interdisciplinary minor, regardless of their major!

This program may be completed face-to-face on our Lewiston and Portland campuses, fully online, or through a combination of the two. For more information about the fully online option, please contact Admissions at admitusm@maine.edu. For more information about our other options, please contact the Student Success Center at 207-753-6536.

Program Requirements

The Minor in Leadership Studies requires a minimum of 15 credits.

Required Courses for the Leadership Minor (12-13 credits)

- LOS 300 Organizational Theory 3 cr
- LOS 301 Group Dynamics 3 cr
- LOS 350 Leadership 3 cr
- Any Ethics course that is three or more credits and 200-level or higher (e.g., LAC 370 Toward a Global Ethics 4 cr)

Select One of the Following Electives* (3 credits)

- LOS 270 Exploring Leadership on Campus 3 cr
- LOS 316 Diversity in Organizations 3 cr
- LOS 327 Leading through Conflict 3 cr
- LOS 330 Leadership in Different Cultures 3 cr
- LOS 371 International Leadership Association Annual Global Conference 3 cr
- LOS 399 Special Topics (e.g., Collegiate Leadership Competition) 3 cr
- LOS 440 Organizational Change and Development 3 cr

Or Three of the following one-credit courses from our exploring leadership series:

- LOS 351 Exploring Transformational Leadership 1 cr
LOS 352 Exploring Servant Leadership 1 cr
LOS 353 Exploring Authentic Leadership 1 cr
LOS 354 Exploring Chaos & Complexity Leadership 1 cr
LOS 355 Exploring Relational Leadership 1 cr
LOS 356 Exploring Followership 1 cr

*Other LOS electives may also be approved. Please contact your advisor for specifics.

Recommended Course Sequence

Although not required, it is recommended that students start their Leadership & Organizational Studies coursework with LOS 300 Organizational Theory, LOS 350 Leadership, or a combination of the two. Students should work with their advisor to organize the scheduling of the rest of their coursework.

Minor in Military Leadership

Description

The Minor in Military Leadership is designed to establish a direct link with the Military Science curriculum and the Leadership Studies program. Students completing this minor should be ROTC cadets interested in learning more about leadership in addition to their Military Science courses. For more information, please contact Dr. Tara Coste at (207) 753-6596 or email tcoste@maine.edu. Please see Program Requirements.

Program Requirements

The following curriculum meets the requirements for a Military Leadership Minor for Army ROTC Cadets. Students must complete a total of 28 Military Science credits (eight courses, eight leadership labs) and six Leadership and Organizational Studies credits as part of both academic and commissioning requirements.

- MIS 213 Fundamentals of Leadership 2 cr
- MIS 203 Introduction to ROTC 2 cr
- MIS 301 Self and Team Development I 2 cr
- MIS 302 Self and Team Development II 2 cr
- MIS 401 Leading Small Organizations I 3 cr
- MIS 403 Leading Small Organizations II 3 cr
- MIS 411 Leadership and Management I 3 cr
- MIS 412 Leadership and Management II 3 cr
- Students also Participate in Leadership Labs each Semester 1 cr (per semester for a total of 8 credits)
- LOS 300 Organizational Theory 3 cr*
- LOS 350 Leadership 3 cr*

*LOS 300 and LOS 350 may be completed face-to-face on our Lewiston and Portland campuses, fully online, or through a combination of the two.

Minor in Military Science

Description

This minor is designed to establish a direct link with the Military Science curriculum and award a Military Science Minor to all students who successfully complete the four-year Military Science program. For more information, please contact Dr. Tara Coste at (207) 753-6596 or email tcoste@maine.edu. Please see Program Requirements.

Program Requirements
The following curriculum meets the requirements for a Military Science Minor for Army ROTC Cadets. Students must complete a total of 28 Military Science credits (eight courses, eight leadership labs) as part of both academic and commissioning requirements.

**Required Courses (28 credits)**

- MIS 213 Fundamentals of Leadership  2 cr
- MIS 203 Introduction to ROTC  2 cr
- MIS 301 Self and Team Development I  2 cr
- MIS 302 Self and Team Development II  2 cr
- MIS 401 Leading Small Organizations I  3 cr
- MIS 403 Leading Small Organizations II  3 cr
- MIS 411 Leadership and Management I  3 cr
- MIS 412 Leadership and Management II  3 cr
- Students also Participate in Leadership Labs each Semester  1 cr (per semester for a total of 8 cr)

**LOS Course Descriptions**

The Leadership and Organizational Studies program is interdisciplinary with courses that utilize a variety of active and experiential learning methods.

- **Undergraduate**
- **Graduate**

**Undergraduate**

**LOS 250 Organizational Accounting**
This course will introduce students to the basic concepts of financial accounting: the use of debits and credits, finding a trial balance, differences in measurement and accounting methods, practices of private and public organizations, the use of funds to account for resources acquisition, and government applications. Throughout the course, the leader's perspective and accountability to stakeholders are emphasized. Prerequisite: LAC 112, Microsoft Excel or equivalent knowledge. Cr 3.

**LOS 270 Exploring Leadership on Campus**
This exploratory leadership studies course is designed to approach leadership on campus and beyond as a relational phenomenon from self-development and strengths-based leadership to group dynamics and roles, complex organizations and their structures, teamwork, ethics, decision making, conflict resolution, diversity, and change. Concepts from leadership theory, current literature and research are introduced, discussed, and implemented by individual students as they develop effective leadership skills. Cr 3.

**LOS 299 Writing in the Major**
This course provides instruction and practice in the modes of thinking and writing applicable to leadership and organizational studies. As those in leadership positions should strive to be excellent communicators, the course goal is to increase both critical thinking and writing abilities as well as knowledge of various styles, formats, and appropriate voices. The one-credit course is offered fully online. LOS majors should take the course as soon as they start taking LOS courses. Prerequisite: College Writing with a grade of C- or higher. Co-requisite: LOS 300. Cr 1.

**LOS 300 Organizational Theory**
This is a foundational course that provides a solid overview of organizational theories in leadership. Current organizational issues are analyzed using structural, human resource, cultural, and political frameworks and the case method. Issues examined include leadership, organizational design, planning, change, decision making, communication, and control. This is an excellent course for students interested in how organizations work. Students in the LOS major must complete this required course with a grade of a B- or better as a condition of their degree. This course includes writing instruction. Prerequisite: Familiarity with the Blackboard online learning community. Completion of College Writing with a C- or better is required for LOS majors and preferred for all other students. Co-requisite: LOS 299. Cr 3.

**LOS/SBS 301 Group Dynamics**
This course gives students an understanding of how people behave in groups and the skills needed by group members to participate effectively in group activities. It provides a theoretical foundation for how groups function, with a focus on group process and development; and it discusses how these theories can be applied to a wide range of group settings. This course uses experiential techniques to help students develop critical skills and understanding of group dynamics. Prerequisite: Completion of College Writing with a C- or better is required for LOS majors and preferred for all other students. Cr 3.

**LOS/SBS 302 Organizational Behavior**
This course examines human behavior in organizations: individual, group, and organizational processes that impact workplace behaviors and...
organizational life. The focus is on understanding factors that contribute to organizational effectiveness and the major challenges facing organizations today. We will cover topics such as individual and organizational learning, individual values and motivation; interpersonal communication and work team dynamics, leadership and emotional intelligence, power and influence, organizational culture and change. Students will engage in experiential and skill-building activities and apply conceptual frameworks to their real-life work experiences. Cr 3.

LOS 304 Organizational Budgeting and Finance
This course introduces students to budgeting and safeguarding financial resources in states and local governments, public universities, and private and nonprofit organizations. Specific topics include the finance cycle and financial presentations; analyzing budgets over time and across organizations using deflators and ratios; introduction to cost-benefit analysis; time value of money; shaping high-quality governmental revenue systems; and cost structures, economies of scale and scope, and effects on spending requirements and service levels. Assignments emphasize using Excel spreadsheets to analyze and communicate budget and finance data. Prerequisites: LOS 250 and LAC 112 or equivalents. Cr 3.

LOS 308 Lean Systems and Methods (Principles)
This is an introductory course in applying Lean principles and methods in organizations, including front/back office manufacturing, non-profits, healthcare, IT, education and government. Students will learn basic Lean principles and methods and have an opportunity to observe, practice, and apply principles and methods learned. Cr 3.

LOS 309 Lean Systems and Methods (Practicum)
This supervised practicum provides an opportunity for students to apply lean principles and methods. Working in teams, students will demonstrate the ability to transfer learning from the Lean Methods and Systems course to the field as they implement projects designed to enhance value to the organization. Specific learning objectives will be set by the students and address competency in a needs assessment, the Implementation process, outcome evaluation including project results, and individual learning. Prerequisite: LOS 308 Lean Methods and Systems. Cr 3.

LOS 310 Science, Technology, and Society (SCA)
This course examines the history of science and technology and the social changes related to them. It examines the impact of science and technology on ethical and religious beliefs, social institutions such as education, family, and work, and on larger sociopolitical entities and relations. The course also explores the effects of science and technology on natural and human-made environments. Cr 3.

LOS 312 Human Resource Management
This course 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.

LOS 314 Employee Relations
This course 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.

LOS 315 Training and Development
This course provides students with a theoretical framework for adult learning as it applies to the training and development process in the context of organizational development. Topics covered include the assessment of learning needs and setting of objectives, the design and facilitation of learning processes such as workshops, on-the-job training, self-directed learning, web-based training, and the assessment of outcomes. Students will design and deliver a leadership development training program for a community organization as a major project for this course. Prerequisite: Instructor permission required. Cr 3.

LOS/SBS 316 Diversity in Organizations (DIV)
Using historical, socio-economic, and psychological perspectives, students learn about the challenges diverse members of U.S. society, such as women, people of color, people from marginalized classes, and those from other countries have had and continue to face. Students gain an understanding of how the workplace may affect diverse peoples and how others can learn to make the workplace more hospitable. A primary focus of this course is on examining beliefs, behaviors, or unconscious attitudes that perpetuate the oppression and subordination of diverse members of society in the workplace, while also looking at how increased diversity is adding to workplace productivity, creativity, and learning. Readings are drawn from the social sciences and humanities to provide an interdisciplinary approach to the topic. Cr 3.

LOS/LAC 318 Database Management
This course introduces skills and builds proficiency in database management. It is taught on PC computers using the latest version of Microsoft Access and is designed to help students develop competencies in a variety of database processing functions. Students become proficient in setting up databases, managing data, creating reports, using report enhancements, and manipulating data. Prerequisite: Basic computer applications knowledge. Cr 3.

LOS 323 The Media and Politics
This course 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.
Los 325 Advancing Innovation in State and Local Government
This course examines how public policy is formulated, adopted, and implemented and the structure and processes of administration in states and local governments. Policy issues and challenges facing Maine’s governments, and the potential roles of leaders in facilitating change and innovation, are a special focus of the course. Cr 3.

Los 326 Leadership in Sports
This course provides students interested in sports an opportunity to explore and deconstruct various aspects of sports leadership. Covering a wide range of material, the course will develop a critical understanding of the mutually constituted link between sport, leadership, and society. To this end, it applies classical, modern, and postmodern theories of leadership to historical and contemporary sporting examples that will offer a critical view of how sport (and conceptions of sport) are constructed and represented. Various levels of analysis will be explained to assist interpretive work and to explore the complexity of the terrain as it directly relates to the study of leadership. Cr 3.

Los 327 Leading through Conflict
Conflict management is explored as an essential leadership tool and analyzed as a necessary component of healthy systems and innovations. We will investigate techniques that help individuals and groups mediate and negotiate differences encountered in a variety of situations. Cr 3.

Los/SBS 329 Research Methods
This course is 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 and includes completion of an applied project. Strongly recommended for students going on to graduate school, careers in consulting, or human resource management. Prerequisite: LAC 150 or equivalent. Cr 3.

Los 330 Leadership in Different Cultures
Students will explore leadership practices in multiple cultures and how our increasing interactions with these diverse leadership styles have changed our conception of leadership in the U.S. This course will help students determine the skills they will need to take on a leadership role in a global society. Cr 3

Los 336 Dealing with Difficult People and Behaviors
It has been stated that everyone is someone's difficult person. Almost daily, we come in contact with people we would characterize as difficult. They are the people we work with, sell to, depend on, and live with. There are intimidators, manipulators, analyzers, know-it-alls, overly friendly, accommodators, chronic complainers, and whiners. Their actions consume time, energy, and emotion at the expense of productivity and morale. This course provides fresh insights and immediately usable skills needed to quickly, confidently, and assertively identify and deal with various types of people, difficult or not, in a variety of contexts while maintaining our own self-confidence. Cr 3.

Los 339 Women’s Ways of Leading: Building Partnerships, Creating Change
This course offers historical and multi-disciplinary perspectives on such subjects as women leaders, systems of power and privilege, cultural shifts, and the psychology of bias. The settings of our investigations will range from the private corporate sector to government and non-profits, both within our country and abroad. Learning will be enhanced by facilitated discussions and interviews with community leaders, among other things. Cr 3.

Los 345 Leadership and Film
Like literature, film allows for an exploration of various themes and experiences that would not normally be available to an individual. This course seeks to capture this opportunity by seeking to understand leadership as it is presented in various films. Through the use of film, we will explore themes relating to leadership such as power, influence, oppression, ethics, service, and more. Cr 3.

Los 350 Leadership
This foundational course for students of leadership will provide learners with a review of major leadership concepts and theories designed to incorporate research findings, practice, skill-building, and direct application to real world scenarios. Beyond leadership concepts and theories, the course will cover a variety of topics impacting today’s leaders as a foundation for learning including power and ethics, leadership development, politics and influence, decision making, and creativity and innovation. An experiential design is used along with traditional online techniques to help students reflect on their personal leadership styles and examine their approaches to leading others in diverse organizational settings. Students in the LOS major must complete this required course with a grade of a B- or better as a condition of their degree. Prerequisite: Completion of College Writing with a C- or better is required for LOS majors and preferred for all other students. Cr 3.

Los 351 Exploring Transformational Leadership
In the increasingly uncertain world of today, new leadership is needed for radical positive change. Transformational Leadership offers one such avenue for unleashing the potential in individuals and situations. This one credit course is an in-depth exploration of Transformational Leadership. Students will gain an understanding of the theory, critiques of the theory and practical application of the theory. Prior Leadership courses are preferred but not required. Cr 1.

Los 352 Exploring Servant Leadership
Through a unique paradox, servant-leaders seek to lead in a way that invests in the health and growth of the led while also seeking to improve the world around them. This one credit course is an in-depth exploration of Servant-Leadership. Students will gain an understanding of the theory, critiques of the theory and practical application of the theory. Prior Leadership courses are preferred but not required. Cr 1.
LOS 353 Exploring Authentic Leadership
Authentic leadership seeks to create leaders that identify and are in tune with their true selves and then seek to lead from this place of authenticity. This one credit course is an in-depth exploration of Authentic Leadership. Students will gain an understanding of the theory, critiques of the theory and practical application of the theory. Prior Leadership courses are preferred but not required. Cr 1.

LOS 354 Exploring Chaos & Complexity Leadership
Change is a natural part of the world around us. Often, it is the result of chaotic and complex systems interacting with one another. Acknowledging this reality, this course seeks to understand how leaders can learn from chaos theory and complex adaptive systems. The result will be a study of cutting-edge leadership theory and practice that will provide students with a greater understanding of how to engage with the world as leaders. Cr 1.

LOS 355 Exploring Relational Leadership
Recent scholarship in the study of leadership has begun to understand and investigate the relationship nature of the leader/follow construct. As a result of this emerging body of research, this course seeks to understand leadership as a relational process. This course will explore the theory, practice, and critiques of relational leadership theory in hopes of broadening students understanding of this new leadership perspective. Cr 1.

LOS 356 Exploring Followership
Leadership is often framed as a dyadic relationship between leader and follower. There is ample focus on the leader, but what about the other half of the relationship? This course aims to understand followership and how followers can have a significant impact on leaders and organizations. Through an exploration of theory and practice, this course will prepare students to be both better followers and better leaders. Cr 1.

LOS 360 Innovation in Organizations
This course is designed to develop practical skills in creative and innovative thinking that leaders can use to identify opportunities, generate value-creating ideas, and overcome barriers to successfully bringing new concepts to life. In this class, students will learn about creative thinking tools and how to practically apply them; develop an appreciation of the personal and organizational factors that influence creativity and innovation; explore the leadership and facilitation skills that will prepare them to lead teams through creative problem solving. Cr 3.

LOS 361 Entrepreneurship
This course focuses on why people become entrepreneurs, the characteristics of successful entrepreneurs, the changing demographics of entrepreneurs, and the importance of entrepreneurship to the economy and society. In this class, students will examine the entrepreneurial process from the decision to become an entrepreneur through idea generating, writing a business plan, competitor analysis, getting financing, marketing, team building, considering ethical and legal issues, and developing strategies for growth. Cr 3.

LOS 362 Community Leadership and Civic Engagement
This is an introduction to community leadership and engagement. Students will develop an understanding of the theories, principles, and practices of leading communities. Students will gain knowledge of skills for promoting and sustaining community change and improvement. Topics include social justice, developing citizenship, community building, mobilization and advocacy, visioning, and strategic action planning. Cr 3.

LOS 371 International Leadership Association Annual Global Conference
Conferences offer multiple opportunities to socialize attendees in the broad professional and academic discourses. They also offer exciting opportunities for participants to exchange new and emerging ideas, spaces to know one another, and even to make commitments for future projects. In this course students will attend the International Leadership Association (ILA) conference along with pre- and post-class sessions to become familiar with one academic culture related to Leadership & Organizational Studies. Students will have multiple opportunities to ask questions related to professional development and conference participation in general. Finally, students will engage with the conference theme (e.g., Leadership in Turbulent Times) through conference participation, class dialogues, and assignments. Students will reflect on various leadership issues related to practicing inclusive leadership. Cr 3.

LOS 373 Managing Nonprofits
This course will familiarize students with major concepts in the management of a nonprofit and will help them develop the skills to utilize this material in applied situations. Students will explore the mission of the nonprofit, marketing and funding, effective strategies for developing relationships and performance, and ways to enhance leadership skills. Cr 3.

LOS 398 Independent Study
Prerequisites: LOS 300 or junior standing and permission of instructor. Cr 3.

LOS 399 Special Topics
Topics offered will cover current special issues in organizations and/or the study of organizations through alternative methods. Cr 3.

LOS 412 Topics in Human Resource Management
This course will consider contemporary topics that represent emerging issues for human resource management within organizations. Cr 3.

LOS 422 Leadership in the Public/Nonprofit Sectors
This course prepares leaders who can work for the common good across public, nonprofit and private sectors, and lead and manage in a diverse
world. Students gain an understanding of the unique nature and challenges of leadership in public service and roles for leaders. Theories of public and nonprofit leadership and their application in complex and inter-sectoral settings are considered. Prerequisite: Junior standing or permission of the instructor. Cr 3.

**LOS/SBS 430 Applied Social Policy**
A review of contemporary social policy alternatives and an examination of social policy making processes at both the macro- and micro-levels. 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. Prerequisites: Either LCC 200 or LCC 370 as well as junior standing or permission of the instructor. Cr 3.

**LOS/SBS 436 Risk, Public Policy, and Society**
This course considers the variety of ways in which risks, especially risks to the environment and health, are measured, perceived, communicated, and acted upon in our society. Perspectives will be drawn from health fields, natural sciences, and political science, as well as from the social sciences. Cr 3.

**LOS 440 Organizational Change and Development**
As we move further into the twenty-first century, organizations and their leaders find themselves in highly competitive, fast-paced, and globalized environments in which change is essential for success, for their very survival. Organizations and their members must continue to learn, adapt, and evolve to keep pace with the changes occurring around them. This course is designed to provide necessary tools coupled with a better understanding of the major challenges and leadership orientations associated with initiating and implementing organizational change. We investigate theories, concepts, research, and their applications to better understand why and how organizations change. Cr 3.

**LOS 470 Leadership Study Abroad (INT)**
The goal of this course is to familiarize students with key issues in intercultural leadership and to provide tools to be an effective leader in a globally aware environment. Through international travel, a variety of readings, and reflection exercises, students will examine a diversity of leadership situations and the cultural factors that influence the quality of a leader's performance. To help apply theory to experience, students will be given a number of opportunities to articulate ideas about the concepts explored through presentation, group discussion, and writing. Prerequisite: Instructor permission. Cr 6

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**Graduate**

**LOS 500 Foundations of Leadership Studies I: Theory and Practice**
The course provides an overview of leadership theory, practice, and intellectual history using disciplinary and interdisciplinary approaches from philosophy, social science, the humanities (e.g. literature and history), and science. We explore the wealth of interpretive frameworks for leadership with the objective of increasing our understanding of this complex and multifaceted phenomenon. The study of leadership will be utilized to examine critical issues emerging today. Cr 3.

**LOS 501 Foundations of Leadership Studies II: Theory and Practice**
The goal of this course is to further the development of students' knowledge of leadership theory and practice, with a special emphasis on the individual and group levels of analysis. Throughout this interdisciplinary exploration of the diverse factors that impact leadership, students will engage in a variety of readings, discussions, writings, and exercises designed to demystify the connections between theory and practice. Cr 3.

**LOS 502 Foundations of Leadership Studies III: Theory and Practice**
With a focus on organizational development frameworks, strategies, and processes, this course explores the theories and research of leading effective organizational development and holistic systems change. An emphasis will be placed on organizational development and related emerging leadership theories and research. Case studies and experiential learning are used to examine the intended and unintended consequences of organizational development efforts. Cr 3.

**LOS 512 Deliberate Creativity and Innovation**
Deliberate creativity studies investigate the theory and practice of facilitation methods that enable people, processes, products, and environments to be innovative. After exploring the numerous and diverse facets of this area of study, students should be able to demonstrate (both in discussion and practice) their ability to use their learning in an applied setting. Cr 3.

**LOS 525 Advancing Innovation in State and Local Government**
This course examines how public policy is formulated, adopted, and implemented and the structure and processes of administration in states and local governments. Policy issues and challenges facing Maine’s governments, and the potential roles of leaders in facilitating change and innovation, are a special focus of the course. Cr 3.

**LOS 550 Cultural Contexts**
This course provides an analysis of the role that culture and cultural differences play in contemporary occupational, social/civic, and interpersonal life. The essential question for the course is: how does one show leadership in creating and supporting multicultural relationships, organizations, institutions, and socio-political and economic systems? Cr 3.

**LOS 571 International Leadership Association Annual Global Conference**
Conferences offer multiple opportunities to socialize attendees in the broad professional and academic discourses. They also offer exciting opportunities for participants to exchange new and emerging ideas, spaces to know one another, and even to make commitments for future projects. In this course students will attend the International Leadership Association (ILA) conference along with pre- and post-class sessions to become familiar with one academic culture related to Leadership & Organizational Studies. Students will have multiple opportunities to ask questions related to professional development and conference participation in general. Finally, students will engage with the conference theme (e.g., Leadership in Turbulent Times) through conference participation, class dialogues, and assignments. Students will reflect on various leadership issues related to practicing inclusive leadership. Cr 3.

LOS 599 Topics
Topics offered will cover current special issues in organizations and/or the study of organizations through alternative methods. Cr 3.

LOS 610 Methods of Inquiry
This course considers the concepts, principles, and methods that may be used in research for organizational and leadership studies. Quantitative and qualitative research methods that can be used in organizational planning and decision-making and in the social and behavioral sciences will be considered. The course will cover topic areas related to the application of appropriate methods of inquiry. Cr 3.

LOS 611 Communication and Relationship Building
This course investigates the communication and behavioral theories and techniques that mediate interpersonal dynamics. Students will engage in a course of study designed to help them develop awareness of their communication abilities and difficulties and tools to effectively address the interpersonal challenges they face now and will face in the future. Cr 3.

LOS 614 The Conflict Process
Developing skills in framing conflicts and facilitating the communication processes that help groups mediate differences is key to successful leadership. The course examines research on leadership behaviors encountered in a variety of situations including small groups, organizations, communities, and internationally. Cr 3.

LOS 615 Leading Difficult People
This course provides students with an exploration of current research and theories of human behavior as they relate to the more difficult of behaviors that we encounter as leaders. Foundational topics covered include verbal and nonverbal communication, self-concept, effective listening, assertiveness, defensive and supportive communication, and conflict resolution. This course will then build on this base to specifically explore how leaders can help mediate the effects of difficult people and behaviors. Through various readings, interactive discussions, case study analyses, and experiential written assignments, students will learn how to practically apply theory to their own professional, social, and personal life situations; discover how to identify difficult behaviors in themselves and others; and acquire skills to more effectively handle the difficulties that negative behaviors can cause. Cr 3.

LOS 622 Leadership in the Public/Nonprofit Sectors
This course prepares leaders who can work for the common good across public, nonprofit and private sectors, and lead and manage in a diverse world. Students gain an understanding of the unique nature and challenges of leadership in public service and roles for leaders. Considers theories of public and nonprofit leadership and their application in complex and inter-sectoral settings. Cr 3.

LOS 625 Training and Development
This course provides students with a theoretical framework for adult learning as it applies to the training and development process in the context of organizational development. Topics covered include the assessment of learning needs and setting of objectives; the design and facilitation of learning processes such as workshops, on-the-job training, self-directed learning, web-based training; and the assessment of outcomes. Students will design and deliver a leadership development training program for a community organization as a major project for this course. Cr 3.

LOS 631 Leadership and Film
Like literature, film allows for an exploration of various themes and experiences that would not normally be available to an individual. This course seeks to capture this opportunity by seeking to understand leadership as it is presented in various films. Through the use of film, we will explore themes relating to leadership such as power, influence, oppression, ethics, service, and more. Cr 3.

LOS 639 Women's Ways of Leading: Building Partnerships, Creating Change
This course offers historical and multi-disciplinary perspectives on such subjects as women leaders, systems of power and privilege, cultural shifts and the psychology of bias. The settings of our investigations will range from the private corporate sector to government and non-profits, both within our country and abroad. Learning will be enhanced by facilitated discussions and interviews with community leaders, among other things. Cr 3.

LOS 641 Exploring Transformational Leadership
In the increasingly uncertain world of today, new leadership is needed for radical positive change. Transformational Leadership offers one such avenue for unleashing the potential in individuals and situations. This one credit course is an in-depth exploration of Transformational Leadership. Students will gain an understanding of the theory, critiques of the theory and practical application of the theory. Prior Leadership courses are preferred but not required. Cr 1.

LOS 642 Exploring Servant Leadership
Through a unique paradox, servant-leaders seek to lead in a way that invests in the health and growth of the led while also seeking to improve the world around them. This one credit course is an in-depth exploration of Servant-Leadership. Students will gain an understanding of the theory, critiques of the theory and practical application of the theory. Prior Leadership courses are preferred but not required. Cr 1.

**LOS 643 Exploring Authentic Leadership**
Authentic leadership seeks to create leaders that identify and are in tune with their true selves and then seek to lead from this place of authenticity. This one credit course is an in-depth exploration of Authentic Leadership. Students will gain an understanding of the theory, critiques of the theory and practical application of the theory. Prior Leadership courses are preferred but not required. Cr 1.

**LOS 644 Exploring Chaos & Complexity Leadership**
Change is a natural part of the world around us. Often, it is the result of chaotic and complex systems interacting with one another. Acknowledging this reality, this course seeks to understand how leaders can learn from chaos theory and complex adaptive systems. The result will be a study of cutting-edge leadership theory and practice that will provide students with a greater understanding of how to engage with the world as leaders. Cr 1.

**LOS 645 Exploring Relational Leadership**
Recent scholarship in the study of leadership has begun to understand and investigate the relationship nature of the leader/follow construct. As a result of this emerging body of research, this course seeks to understand leadership as a relational process. This course will explore the theory, practice, and critiques of relational leadership theory in hopes of broadening students understanding of this new leadership perspective. Cr 1.

**LOS 646 Exploring Followership**
Leadership is often framed as a dyadic relationship between leader and follower. There is ample focus on the leader, but what about the other half of the relationship? This course aims to understand followership and how followers can have a significant impact on leaders and organizations. Through an exploration of theory and practice, this course will prepare students to be both better followers and better leaders. Cr 1.

**LOS 651 Technology in Society**
Technology and society studies investigate the social implications of technology, the values expressed in uses of technology, and the policy decisions that affect and are affected by technological change. Students will analyze various arguments surrounding how technological change has affected the manner in which we live and how we as leaders should utilize technology in the future. Cr 3.

**LOS 661 Ethical and Spiritual Dimensions of Leadership**
What are the roles of ethics and spirituality in leadership? Where do ethics end and spirituality begin? This course approaches the study of leadership from the perspectives of meaning, values, and human connectedness. The hunger to understand our lives, be part of a larger whole, be complete, and serve are examined as they relate to the leadership process. Cr 3.

**LOS 662 Community Leadership and Civic Engagement**
This course is an introduction to community leadership and engagement. Students will develop an understanding of the theories, principles, and practices of leading communities. Students will gain knowledge of skills for promoting and sustaining community change and improvement. Topics include social justice, developing citizenship, community building, mobilization and advocacy, visioning, and strategic action planning. Cr 3.

**LOS 665 Organizational Consulting: A Perspective on Leadership**
In this course, students learn what consultants do and how they do it effectively, including work in a local organization with a client leader who has a need. Topics include self-assessment, phases of consulting, system frameworks, intervention strategies, and ethical standards and practices. Cr 3.

**LOS 670 Leadership Study Abroad**
This course investigates the study and practice of leadership in other countries. Students will travel to other countries and examine leadership issues in different contexts. Cr 3.

**LOS 688 Master’s Capstone I**
The seminar allows students the opportunity to work with faculty to develop a comprehensive individualized research project leading to expertise in a particular area of leadership interest. Seminar meetings will include collegial (student) as well as faculty critique and assistance in developing research projects that exemplify an original contribution to scholarship. Questions posed and methods of study for the capstone will be discussed. The capstone faculty advisor must approve all projects. The seminar will conclude with students identifying the key questions and hypotheses, a comprehensive review and analysis of relevant literature and a well-developed research design for their thesis project. Prerequisite: LOS 610. Cr 3.

**LOS 689 Master’s Capstone II**
The Master’s degree thesis offers students the opportunity to work on an individual research-based thesis project resulting in a substantive paper that involves original collection or treatment of data that explores the role of leadership in developing or implementing meaningful change in an organization or community. This scholarly work will exemplify an original contribution to the field of leadership studies. The final product of a Master’s Thesis is a paper of publishable quality. Students will formally present their theses at the end of the semester. Prerequisites: LOS 610 and LOS 688. Cr 3.
LOS 698 Independent Study Cr 3.

LOS 699 Special Topics
Topics offered will cover current special issues in organizations and/or the study of organizations through alternative methods. Cr 3.
Accelerated Graduate Pathway to Occupational Therapy

It is possible to obtain both a BA in Natural and Applied Sciences and a Masters in Occupational Therapy using the Accelerated Graduate Pathway to Occupational Therapy (MOT) option.

The Master of Occupational Therapy (MOT) program offers an accelerated pathway for current USM students. The corresponding undergraduate degree options are the Natural and Applied Sciences, Social and Behavioral Sciences, or Health Sciences degree programs. These degrees tend to cover the majority of the MOT prerequisites as part of the degree program and save students time and money.

Students interested in pursuing the Accelerated Pathway to MOT complete approximately 85-90 undergraduate credits, usually after approximately three (3) years of full time study. During their junior year, the student would then apply and be accepted into the MOT program. The student's final undergraduate year would then overlap with their first year of the master's program, with some credits counting toward both degrees.

Steps for the accelerated pathway are as follows:

1. Matriculate into one of the aforementioned undergrad degree programs (NAS, SBS, or HLS);
2. Declare the MOT Accelerated Pathway option using this declaration form and return it to the Registrar's Office for processing;
3. Complete all college core and academic major degree requirements, as well as the required MOT prerequisite courses;
4. APPLY* to the MOT program the year prior to the fall you expect to start;
5. If accepted, MOT courses are used toward your undergraduate degree's general electives in order to reach the 120 total credits required to earn the bachelor's degree;
6. If not accepted, the student will be expected to complete the necessary electives within their undergraduate program in order to obtain bachelor's degree;
7. Continue with MOT graduate school coursework (if accepted into the program) and earn your Master of Occupational Therapy degree upon completion of all MOT academic and fieldwork requirements.

*APPLICATION TO THE MOT PROGRAM IS REQUIRED. Participation in the accelerated pathway option DOES NOT guarantee admission to the MOT program. Each applicant joins the overall applicant pool for consideration for admission.

If interested in pursuing the Accelerated Pathway to MOT option, talk to your faculty or professional advisor. You can also call (207) 753-6536 to set up an advising appointment on the Lewiston campus for the SBS or NAS degree paths, or call (207) 780-4555 to set up an advising appointment on the Gorham campus for the Health Sciences option. Transfer of any previously earned college credits will also be discussed.

The Accelerated Pathway option does not guarantee admission to the MOT program. Students must qualify in the same manner as any other applicant to the MOT program.

Students who are not admitted to the MOT Program must complete all regular NAS Program requirements in order to receive their BA in Natural & Applied Sciences.

Students electing for the Accelerated option have slightly different requirements and fewer elective choices (due to meeting the prerequisites for entry into the Occupational Therapy program) than the standard NAS Bachelors of Arts. These specific electives are marked with a * below. If a student does not enter or complete the MOT program, they will need to complete additional classes shown on the NAS degree page before graduation.

NAS Required Classes (40 credits)

- MAT 108 College Algebra 4 cr
- SCI 113/114 Principles of Chemistry I and Lab 4 cr
- SCI 115/116 Principles of Chemistry II and Lab 4 cr
- SCI 170/171 Human Anatomy & Physiology I & Lab 4.5 cr*
MOT Prerequisites

In addition to the starred (*) courses above, students are also required to complete the following OT specific prerequisites with a grade of "B" or better:

- SBS/HRD 200 Multicultural Human Development or PSY 220 Developmental Psychology 3 cr
- SOC 100 Introduction to Sociology 3 cr
- SBS 303 or PSY 233 Abnormal Psychology 3 cr
- SCI 250 Applied Physics with Lab 4 cr
- SCI 140 Medical Terminology 3 cr
- SCI 470 Neurophysiology 3 cr
- LAC 120 or MAT 120 Statistics 3-4 cr

Transition to MOT

Once these items are completed and the student is admitted into the Occupational Therapy program, the student will begin taking graduate coursework consisting of the required classes for the Masters in Occupational Therapy.

BA in Natural and Applied Sciences

Description

Department Chair: Dr. Blake Whitaker, LAC 208B, blakew@maine.edu, 753-6535

Professor: Ike Levine, PhD; Associate Professors: Paul Caron, EdD and Blake Whitaker, PhD; Lecturers: Nancy Clum, PhD, and Paula Drouin, MS

The Natural and Applied Sciences (NAS) Program focuses on the intersection of human and environmental health and experience. NAS Graduates are practiced in the application of scientific techniques, data collection, and review; and demonstrate proficiency in clear, succinct, modern modes of communication. The faculty of NAS apply several key themes associated with a transformative and useful liberal arts education in the sciences: Applied Laboratory Skills, Quantitative Analysis, Critical Thinking, Ethical Action, and Effective Communication.
Study in the NAS Program provides a substantial foundation across the physical and life sciences while allowing the student, through judicious choice of electives, to focus their major along pathways in human health or environmental science. These options are suitable for direct entry into a variety of careers as well as admission into graduate and professional studies. Graduates of this program are employed in fields including biotechnology, conservation biology, epidemiology, environmental science, and molecular biology; health fields including dentistry, medicine, nursing, pharmacy, public health, and occupational therapy; laboratory management or natural resource management; and elementary or secondary education.

**Potential transfer students** are advised to consult with NAS Department Chair Blake Whitaker (blakew@maine.edu) to discuss strategies to maximize credit transfers and minimize course content duplication. Our curriculum is designed to be as transfer-friendly as possible.

Please visit the [Office of Admissions](#) for application information.

Professional programs associated with NAS such as Teacher Education Certification and the [Accelerated MOT Option](#) have slightly different requirements and fewer elective options.

If you have questions regarding whether a particular class may be substituted for or meets a requirement, please speak with your advisor.

### Program Requirements

Students with extensive transfer credit may be granted waivers or course equivalencies for certain classes. Discuss these options with your advisor.

**NAS Required Classes** (49 to 52.5 credits)

**100 Level** (21 credits)

- MAT 108 College Algebra Cr 4
- SCI 105 Biological Principles I Cr 3
- SCI 106 Laboratory Biology I Cr 1.5
- SCI 107 Biological Principles II w/Lab Cr 4.5
- SCI 113 Principles of Chemistry I Cr 3
- SCI 114 Laboratory Techniques I Cr 1
- SCI 115 Principles of Chemistry II Cr 3
- SCI 116 Laboratory Techniques II Cr 1

**200 Level** (13.5 credits)

- LAC 269 Exploring Careers, Choosing Life Roles Cr 1.5
- SCI 209 Human Genetics Cr 3
- SCI 230 Environmental Science, Policy, and Sustainability w/Lab Cr 4
  
  *(NAS students waive SCI 130 and are required to take SCI 230)*
- SCI 281 Microbiology for Health Sciences Cr 3
- SCI 282 Microbiological Laboratory Cr 2

**300 Level** (7 to 7.5 credits)

- SCI 305 Molecular Physiology w/Lab Cr 4 OR
- SCI 355 Ecology w/Lab Cr 4.5
- SCI 315 Environmental Health Cr 3 OR
- SCI 360 Sustainability Issues Cr 3

**400 Level** (7.5 to 10.5 credits)

- LAC 413 Job Search Skills for the 21st Century Cr 1.5
- LAC 447 Internship Cr 3-6
- LAC 480 Senior Seminar (Capstone) Cr 3
**Student Selected Electives** (to reach 120 required for graduation)

Of the remaining 67.5 to 71 credits required for graduation, students can choose Core courses and electives to fit their desired academic outcomes. For a degree in Natural and Applied Sciences, this should consist of at least 9 credits of science and/or math courses with at least 9 credits being at the 300+ level.

**Total Credits Required for Degree - 120**

### Recommended Course Sequence

NAS Recommended Sequence (*denotes lab courses)

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>MAT 108 (4)</td>
<td>QR - Statistics (3)</td>
</tr>
<tr>
<td></td>
<td>SCI 105 (3)</td>
<td>SCI 107 (4.5)*</td>
</tr>
<tr>
<td></td>
<td>SCI 106 (1.5)*</td>
<td>SCA (3)</td>
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<td></td>
<td>CW (3)</td>
<td>TC or Minor (3)</td>
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<tr>
<td></td>
<td>EYE (3)</td>
<td>CE (3)</td>
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<tr>
<td></td>
<td>14.5 credit hours</td>
<td>16.5 credit hours</td>
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<tr>
<td>Year 2</td>
<td>SCI 113 (3)</td>
<td>SCI 115 (3)</td>
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<tr>
<td></td>
<td>SCI 114 (1)*</td>
<td>SCI 116 (1)*</td>
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<tr>
<td></td>
<td>SCI 209 (3)</td>
<td>SCI 281 (3)</td>
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<tr>
<td></td>
<td>SCI 230 (4)*</td>
<td>SCI 282 (2)*</td>
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<td></td>
<td>CI (3-4)</td>
<td>LAC 269 (1.5)</td>
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<td></td>
<td></td>
<td>LAC 413 (1.5)</td>
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<td></td>
<td></td>
<td>Elective - math or science 300+ level (3)</td>
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<td></td>
<td></td>
<td>15 credit hours</td>
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<tr>
<td>Year 3</td>
<td>14-15 credit hours</td>
<td>SCI 305 (4)# or SCI 315 (3)#</td>
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<td></td>
<td>TC or Minor (3)</td>
<td>SCI 355 (4.5)# or SCI 360 (3)#</td>
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<tr>
<td></td>
<td>EISRC (3-4)</td>
<td>TC or Minor (3)</td>
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<td>DIV (3)</td>
<td>Elective (3)</td>
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<tr>
<td></td>
<td>Elective - math or science 300+ level (3)</td>
<td>LAC 447 (3)</td>
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<td></td>
<td>Elective - math or science 300+ level (3)</td>
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<td>## even years</td>
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<td></td>
<td>15 - 16 credit hours</td>
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<tr>
<td>Year 4</td>
<td>LAC 480 Capstone (3)</td>
<td>Elective (3)</td>
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<td>INT (3)</td>
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<td></td>
<td>15 credit hours</td>
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</tbody>
</table>

120 Total credit hours

### BA in Natural and Applied Sciences - Elementary Teacher Education

**Description**

This innovative program is available to students majoring in Natural & Applied Sciences. Upon successful completion of this 120 credit hour program students earn their bachelor's degree as well as certification to teach K-8 General Elementary in the State of Maine. For more information contact Admissions at admitusm@maine.edu or Dr. Paul G. Caron, Chair of Teacher Education at LAC, at 207-753-6549 or caron@maine.edu.

**Program Requirements**
Program Declaration and Withdrawal

All students must formally declare their entry into a teacher education program by completing the Declaration and/or Dropping of Undergraduate Teacher Education Pathway Form with the Registrar's office. The form is located in the forms section of the Office of Registration and Scheduling Services: https://usm.maine.edu/sites/default/files/teacher-education/TE-Pathway-Declaration-Form-fillable.pdf.

Academic Requirements

The minimum academic requirements to be a student in good standing in the elementary education program are as follows:

- A grade of C or better in all University Core and major coursework.
- A grade of B or better in all professional education coursework.
- An overall GPA of 3.0 or better.

Failure to maintain the above requirements may result in program dismissal.

Pre-Candidacy

Upon declaring the elementary teacher education program, a student becomes a pre-candidate. The pre-candidacy phase of the program is the first three years of the program prior to the professional internship. Pre-candidacy coursework is as follows:

Recommended

- EYE 108: Culture, Identity and Education (Cr 3)
- EDU 100: Exploring Teaching* (Cr 3)
- ADS 300: Ethics and Youth with Exceptionalities (Cr 3)

Required

- HRD/SBS 200: Multicultural Human Development Cr 3)
- EDU 305: Foundations of Cultural and Linguistic Diversity* (Cr 3)
- EDU 310: Purpose of Schooling in a Democracy* (Cr 3)
- SED 335: Students with Exceptionalities in General Education* (Cr 3)

Each of the courses with a * includes required service learning or practicum hours in a school or community setting to give students hands-on, real world experience. Students complete these experiences in community and school partner settings and are arranged by the Field Experience Coordinator in the Office of Educator Preparation. The other education courses may require observation experiences in field settings that students arrange on their own.

Candidacy

Candidacy takes place in the spring semester of the third year or when a student has completed the pre-candidacy teacher education coursework and has made satisfactory and sufficient progress in their major. It is the process students go through in order to be admitted to the professional level courses and internship. To be eligible for candidacy, students must be in good academic standing, have passed the Praxis Core, and provided evidence of their Criminal History Record Check.

Natural & Applied Sciences/K-8 General Elementary

REQUIRED COURSES

<table>
<thead>
<tr>
<th>Education Courses <em>(must get a B or better)</em></th>
<th>Cr</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 305 Foundations of Cultural &amp; Linguistic Diversity</td>
<td>3</td>
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<tr>
<td>EDU 310 Purpose of Schooling in a Democracy</td>
<td>3</td>
</tr>
<tr>
<td>EDU 505 Teaching Mathematics K-8</td>
<td>3</td>
</tr>
<tr>
<td>EDU 543 Professional Internship in Elementary Education</td>
<td>9</td>
</tr>
<tr>
<td>EDU 546 Planning and Assessment I</td>
<td>3</td>
</tr>
<tr>
<td>EDU 547 Planning and Assessment II</td>
<td>3</td>
</tr>
<tr>
<td>EDU 551 Teaching Social Studies K-8</td>
<td>3</td>
</tr>
<tr>
<td>EDU 552 Teaching Science K-8</td>
<td>3</td>
</tr>
<tr>
<td>EDU 565 Teaching Reading K-8</td>
<td>9</td>
</tr>
<tr>
<td>EDU 566 Introduction to the Writing Process</td>
<td>3</td>
</tr>
<tr>
<td>HRD 200 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>SED 335 Students with Exceptionalities in General Education</td>
<td>3</td>
</tr>
<tr>
<td>SED 520 Multi-tiered Systems for Educational Support</td>
<td>3</td>
</tr>
</tbody>
</table>
USM Core Curriculum *(must get a C or better)*

- CW - College Writing 3
- QR - Statistics 3
- CI 3-4
- SCA 3
- CE 3
- EISRC 3-4

NAS Requirements *(must get a C or better)*

- SCI 105 Biological Principles I 3
- SCI 106 Laboratory Biology I 1.5
- SCI 107 Biological Principles II with Lab 4.5
- SCI 113 Chemistry I 3
- SCI 114 Laboratory Techniques I 1
- SCI 115 Chemistry II 3
- SCI 116 Laboratory Techniques II 1
- SCI 150 Physics and Biomechanics 3
- SCI 170 Human Anatomy & Physiology I 3
- SCI 171 Practical Human Anatomy & Physiology I 1.5

English Content Elective *(must get a C or better)*

Mathematics Content Elective *(must get a C or better)*

Social Studies Content Elective *(must get a C or better)*

General Electives

**TOTAL CREDITS FOR DEGREE** 120

Additional Program Requirements:

- **Before Beginning Year Two:**
  - Pass Praxis Core: Reading, Writing, Mathematics.
  - Submit formal application to teacher education program.
  - Subscribe to Tk20.
  - Complete NETS-S Assessment.
  - Have a minimum GPA of 3.0 and maintain minimum GPA of 3.0 through rest of program.
  - Pass fingerprinting and background checks.

- **Before Beginning Year Four:**
  - Pass Praxis II: Elementary Content Knowledge.
  - Demonstrate NETS-S Standards.
  - Successfully complete of EDU 310, EDU 305, SED 335, and SED 420 with a B or better.
  - Complete candidacy application process.

- **Program Completion:**
  - Have a cumulative minimum GPA of 3.0 Core and major coursework require a grade of C or better. Professional education coursework requires a grade of B or better.
  - Demonstrate mastery of NETS-T standards and InTASC standards.
  - Successfully complete program and major requirements.

Candidacy Requirements

In order to be eligible for internship, students must successfully complete the candidacy process. Students must apply for candidacy through TK20 by creating a free Tk20 account and completing a candidacy application. In addition to the above academic requirements, students must submit three letters of recommendation and passing scores on the Praxis Core and participate in candidacy interview.

Tk20

Once they are accepted as a candidate for their internship year, students are required to subscribe to the Tk20 online data management system. The subscription fee of $103 covers some of the expenses related to the administration and assessment of the program. For loan purposes, Tk20 is eligible for consideration as part of educational costs. The subscription is a one-time payment and must be made by each student after they have passed their candidacy process and before the first semester of their internship year. Subscription instructions are posted on the Office of Educator Preparation website at [http://usm.maine.edu/educator-preparation](http://usm.maine.edu/educator-preparation).
Graduates who successfully complete all the teacher education program requirements are eligible for recommendation for teacher certification in Maine. In order to be recommended for certification, students must complete the Recommendation for Certification form. Students who fail to meet the academic or professional teacher education program requirements or choose not to pursue teacher certification may withdraw from the teacher education pathway and graduate with their major.

NOTE--Course requirements are subject to change based upon changes in teacher certification regulations.

BA in Natural and Applied Sciences - Secondary Teacher Education

Description

This innovative program is available to students majoring in Natural & Applied Sciences. Upon successful completion of this 120 credit hour program, students earn their bachelor's degree as well as certification to teach Secondary Education in Life Sciences in the State of Maine. For more information contact Admissions at admitusm@maine.edu or Dr. Paul G. Caron, Chair of Teacher Education at LAC, at 207-753-6549 or caron@maine.edu.

Program Requirements

Program Declaration and Withdrawal

All students must formally declare their entry into a teacher education program by completing the Declaration and/or Dropping of Undergraduate Teacher Education Pathway Form with the registrar’s office. The form is located in the forms section of the Office of Registration and Scheduling Services: https://usm.maine.edu/sites/default/files/teacher-education/TE-Pathway-Declaration-Form-fillable.pdf.

Academic Requirements

The minimum academic requirements to be a student in good standing in the secondary education program are as follows:

- A grade of C or better in all University Core and major coursework.
- A grade of B or better in all professional education coursework.
- An overall GPA of 3.0 or better.

Failure to maintain the above requirements may result in program dismissal.

Pre-Candidacy

Upon declaring the secondary teacher education program, a student becomes a pre-candidate. The pre-candidacy phase of the program is the first three years of the program prior to the professional internship. Pre-candidacy coursework is as follows:

Recommended

- EYE 108: Culture, Identity and Education (Cr 3)
- EDU 100: Exploring Teaching* (Cr 3)
- ADS 300: Ethics and Youth with Exceptionalities (Cr 3)

Required

- HRD/SBS 200: Multicultural Human Development Cr 3)
- EDU 305: Foundations of Cultural and Linguistic Diversity* (Cr 3)
- EDU 310: Purpose of Schooling in a Democracy* (Cr 3)
- SED 335: Students with Exceptionalities in General Education* (Cr 3)

Each of the courses with a * includes required service learning or practicum hours in a school or community setting to give students hands-on,
real world experience. Students complete these experiences in community and school partner settings and are arranged by the Field Experience Coordinator in the Office of Educator Preparation. The other education courses may require observation experiences in field settings that students arrange on their own.

Candidacy

Candidacy takes place in the spring semester of the third year or when a student has completed the pre-candidacy teacher education coursework and has made satisfactory and sufficient progress in their major. It is the process students go through in order to be admitted to the professional level courses and internship. To be eligible for candidacy, students must be in good academic standing, have passed the Praxis Core, and provided evidence of their Criminal History Record Check.

Natural and Applied Sciences/Secondary Life Science

**REQUIRED COURSES**

**Education Courses (must get a B or better)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 305 Foundations of Cultural &amp; Linguistic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>EDU 310 Purpose of Schooling in a Democracy</td>
<td>3</td>
</tr>
<tr>
<td>EDU 501 Secondary Science Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDU 546 Planning and Assessment I</td>
<td>3</td>
</tr>
<tr>
<td>EDU 547 Planning and Assessment II</td>
<td>3</td>
</tr>
<tr>
<td>EDU 550 Professional Internship in Secondary Education</td>
<td>9</td>
</tr>
<tr>
<td>HRD 200 Human Growth and Development</td>
<td>3</td>
</tr>
<tr>
<td>SED 335 Students with Exceptionalities in General Education</td>
<td>3</td>
</tr>
<tr>
<td>SED 520 Multi-tiered Systems of Educational Support</td>
<td>3</td>
</tr>
</tbody>
</table>

**USM Core Curriculum (must get a C or better)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CW - College Writing</td>
<td>3</td>
</tr>
<tr>
<td>QR - Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CI</td>
<td>3-4</td>
</tr>
<tr>
<td>SCA</td>
<td>3</td>
</tr>
<tr>
<td>CE</td>
<td>3</td>
</tr>
<tr>
<td>EISRC</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**NAS Required Courses (must get a C or better)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 108 College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MAT 140 Pre-Calculus</td>
<td>3</td>
</tr>
<tr>
<td>SCI 105 Biological Principles I</td>
<td>3</td>
</tr>
<tr>
<td>SCI 106 Laboratory Biology I</td>
<td>1.5</td>
</tr>
<tr>
<td>SCI 107 Biological Principles II w/Lab</td>
<td>4.5</td>
</tr>
<tr>
<td>SCI 113 Principles of Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>SCI 114 Laboratory Techniques I</td>
<td>1</td>
</tr>
<tr>
<td>SCI 150 Physics and Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>SCI 170 Human Anatomy &amp; Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>SCI 171 Practical Human Anatomy &amp; Physiology I</td>
<td>1.5</td>
</tr>
<tr>
<td>SCI 209 Genetics</td>
<td>3</td>
</tr>
<tr>
<td>SCI 355 Ecology w/ Lab</td>
<td>4.5</td>
</tr>
</tbody>
</table>

**General Electives**

**Total Credits** 120

**Additional Program Requirements**

- **Before Beginning Year Two:**
  - Pass Praxis Core: Reading, Writing, Mathematics.
  - Submit formal application to Teacher Education Program.
  - Subscribe to Tk20.
  - Complete NETS-S Assessment.
  - Have a minimum GPA of 3.0 and maintain minimum GPA of 3.0 through rest of program.
  - Pass fingerprinting and background checks.

- **Before Beginning Year Four:**
  - Pass Praxis II: Elementary Content Knowledge.
Demonstrate NETS-S Standards.
- Successfully complete of EDU 305, EDU 310, SED 335, and SED 420 with a B or better.
- Complete candidacy application process.

- Program Completion:
  - Have a cumulative minimum GPA of 3.0. Core and major coursework require a grade of C or better. Professional education coursework requires a grade of B or better.
  - Demonstrate mastery of NETS-T standards and InTASC standards.
  - Successfully complete program and major requirements.

Candidacy Requirements

In order to be eligible for internship, students must successfully complete the candidacy process. Students must apply for candidacy through TK20 by creating a free Tk20 account and completing a candidacy application. In addition to the above academic requirements, students must submit three letters of recommendation and passing scores on the Praxis Core and participate in candidacy interview.

Tk20

Once they are accepted as a candidate for their internship year, students are required to subscribe to the Tk20 online data management system. The subscription fee of $103 covers some of the expenses related to the administration and assessment of the program. For loan purposes, Tk20 is eligible for consideration as part of educational costs. The subscription is a one-time payment and must be made by each student after they have passed their candidacy process and before the first semester of their internship year. Subscription instructions are posted on the Office of Educator Preparation website at http://usm.maine.edu/educator-preparation.

Recommendation for Certification

Graduates who successfully complete all the teacher education program requirements are eligible for recommendation for teacher certification in Maine. In order to be recommended for certification, students must complete the Recommendation for Certification form. Students who fail to meet the academic or professional teacher education program requirements or choose not to pursue teacher certification may withdraw from the teacher education pathway and graduate with their major.

NOTE--Course requirements are subject to change based upon changes in teacher certification regulations.

NAS Course Descriptions

Note 1: Many classes have prerequisites that need to be met before registration. Under appropriate circumstances, these prerequisites can be waived by the instructor if similar classes have been taken previously by the student, and passed with a grade of C or higher. If you are having trouble registering, please contact your faculty advisor or the instructor to seek the appropriate waiver.

The following Department of Biological Sciences courses are equivalent to the NAS (SCI) Program courses offered at Lewiston-Auburn College: BIO 105 = SCI 105, BIO 106 = SCI 106, BIO 107 = SCI 107, BIO 111 = SCI 170, BIO 112 = SCI 171, BIO 113 = SCI 172, BIO 114 = SCI 173, and BIO 345 = SCI 345.

Also ESP 101 = SCI 230.

Lewiston-Auburn College Courses

The following Lewiston-Auburn College courses fulfill the corresponding prerequisite requirements in the Department of Biological Sciences: SCI 105 = BIO 105, SCI 106 = BIO 106, SCI 107 = BIO 107, SCI 170 = BIO 111, SCI 171 = BIO 112, SCI 172 = BIO 113, SCI 173 = BIO 114, and SCI 345 = BIO 345.

Also SCI 230 = ESP 101.

SCI 105 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

SCI 106 Laboratory Biology I
Laboratory experiences illustrating concepts and principles introduced in SCI 105. Must be taken concurrently with SCI 105. Cr 1.5

SCI 107 Biological Principles II w/ Lab
This is an integrated lecture-laboratory course introducing students to biological diversity. The lecture and laboratory each meet three hours weekly. Prerequisites: SCI 105 and SCI 106 with a grade of C or higher. Cr 4.5

SCI 108 Chemistry for Health Sciences
This is a one-semester introduction to general, organic, and biological chemistry that is specifically tailored for students in the health sciences. The course lays a foundation for the interactions that take place between small molecules, large molecules, and biological molecules. The class will initially focus on the language of chemistry and qualitative description of how chemical reactions take place. This includes a basic model for the electronic structure of atoms and molecules, and extending to the physical/chemical properties of a material. This foundation serves as a basis for the descriptive chemistry of functional groups of interest in biology, biochemistry and biological molecules such as carbohydrates, proteins, and lipids. This course is not suitable for chemistry majors or biology majors. This course meets the chemistry requirements for entry into the USM Nursing program. Cr 3

SCI 113 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 non-laboratory experience. This course and SCI 114 (normally taken concurrently) provide the basis for further study of chemistry. Prerequisite: A grade of C or higher in MAT 108. Cr 3

SCI 114 Laboratory Techniques I
Laboratory experiments to illustrate the principles that are presented in SCI 113 lectures. Three laboratory hours per week combining recitation and practical lab work. Corequisite: SCI 113. Cr 1

SCI 115 Principles of Chemistry II
A continuation of SCI 113. 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 higher in SCI 113 or CHY 113. Cr 3

SCI 116 Laboratory Techniques II
Laboratory experiments to illustrate the principles that are presented in SCI 115 lectures. Three laboratory hours per week combining recitation and practical lab work. Prerequisite: SCI 114. Co-requisite: SCI 115. Cr 1

SCI 130 The Biology of Human Health with Lab (SE)
This course introduces basic concepts of biology and explores how these concepts relate to human health. It also explores natural scientific methods of inquiry and applies these methods to complex issues involving the creation and maintenance of human health. Further, the course explores the importance of societal factors in health maintenance. Prerequisite: QR. Offered Spring only. Cr 4

SCI 140 Medical Terminology
This course presents a survey of basic medical terminology for students who are pursuing careers in the health professions and related health care fields. Students will learn how to understand root words, suffixes, and prefixes for naming body systems and pathologies, as well as learning contextual terminology for effective communication in the health care work place. Offered Summer only. Cr 3

SCI 170 Human Anatomy and Physiology I (SE)
This is the first course in a two-semester sequence in human anatomy and physiology. It introduces basic principles of physiology and anatomy through chemistry, cellular structure and function, genetics, and embryology. This course discusses several physiologic systems including the muscular, skeletal, nervous and integumentary systems. Prerequisites: students should have an understanding of basic biology and chemistry from high school courses or GED. SCI 170 should be taken concurrently with SCI 171. Cr 3

SCI 171 Practical Human Anatomy and Physiology I (SE)
Laboratory experiences illustrating topics introduced in SCI 170. Should be taken concurrently with SCI 170. Cr 1.5

SCI 172 Human Anatomy and Physiology II
This is the second course in a two-semester sequence in human anatomy and physiology. Topics in this course will include the special sense organs, blood and circulatory system, immune function, respiratory system, digestion and metabolism, endocrine function, renal function, and electrolyte balance. Prerequisites: A grade of C or higher in SCI 170 and SCI 171. Should be taken concurrently with SCI 173. Cr 3

SCI 173 Practical Human Anatomy and Physiology II
Laboratory experiences illustrating topics introduced in SCI 172. Should be taken concurrently with SCI 172. Cr 1.5
SCI 190 Beer: The Science & Art of Brewing
Students will immerse themselves in the world of craft beer through the history of this ancient beverage and the science of creating it in a modern brewery. Course participants will experience beer's creation, the chemical, biological, and physical processes central to fermentation and brewing, and beer's many sensory subtleties while also developing ideas central to the business of marketing and operating a brewing business. The course will meet in a working brewery, providing hands-on opportunities to observe and participate in the brewing process. To put their new knowledge and skills to work, students will work with professional brewers to design and create their own beers on a small, homebrew-scale system, and with one of Maine's leading brewery owners, work to conceive marketing and sales plans for them. Brewery personnel and USM faculty from the relevant fields will bring the many facets of the world of beer together in this truly interdisciplinary course. Offered Fall only. Cr 3

SCI/SBS 209 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. Prerequisite: SCI 130 or SCI 105 or SCI 170. Offered Fall only. Cr 3

SCI 230 Environmental Science, Policy, and Sustainability with Lab (SE)
This course presents a multidisciplinary survey of the scientific principles underlying energy utilization, nutrient cycles, global warming, population, and natural resource policy and management. The lectures will be comprised of Socratic interactions and group discussions relating regional, national, and global components that encompass ecology, economics, politics, and social endeavors. This course includes a laboratory involving field and lab work and service learning efforts. Prerequisite: QR. Offered Fall only. Cr 4

SCI 240 Applied Botany w/Lab
The growth, structure, reproduction, and physiology of plants will be studied, and the role of plants in human affairs will be discussed in this combined lecture and laboratory/field course. Prerequisites: SCI 105/106. Cr 4.5

SCI 250 Applied Physics w/ Lab
An introductory course with a comprehensive presentation of the basic concepts and principles of physics. Lecture, problem solving, and laboratory experiments serve to strengthen the understanding of classical mechanics, vibrations and wave motion, light and optics. The course focuses on sound physical arguments and discussion of everyday experiences while providing practical examples that demonstrate the role of physics in other disciplines. Knowledge of spreadsheet software and trigonometry is essential. Prerequisite: MAT 108. Cr 4

SCI 281 Microbiology for Health Sciences
This lecture course introduces basic medical microbiology and focuses on the viruses, bacteria, protozoans, and multi-cellular organisms which cause human diseases. It also discusses biotechnology, epidemiology, and the immune system. This course and the associated laboratory course meet the requirements of nursing and allied health programs. Prerequisite: A grade of C or higher in SCI 107 or SCI 170/171. Cr 3

SCI 282 Microbiological Laboratory
This laboratory is designed to run concurrently with the associated lecture content of SCI 281 Microbiology for Health Sciences. The laboratory will cover the essentials of sterile technique, culture and growth requirements of mesophilic bacterial species, microscopy and staining, pure culture, biochemical assays, and unknown identification. This course and the associated lecture course meet the requirements of nursing and allied health programs. Pre- or co-requisite: SCI 281 or BIO 281. Cr 2

SCI 305 Molecular Physiology w/ Lab
This lecture and lab course examines the linkage between cellular and organismal events and those at the molecular level. Particular attention is given to DNA replication, signal transduction and the control of transcription, genomics, proteomics, metabolism, and the compartmentalization of cellular functions. Prerequisites: A grade of C or higher in SCI 209 and SCI 252. Course is offered only in odd-numbered Spring semesters, e.g. Spring 2017. Cr 4

SCI 315 Environmental Health
This course explores issues in environmental health from the dual perspectives of environmental issues and human health. A healthy environment includes species diversity, bountiful resources, and the absence of pollutants. Environmental health comprises those aspects of human health and disease that are determined by factors in the environment. It also refers to the theory and practice of assessing and controlling factors in the environment that can potentially affect human health. Prerequisites: Introductory biology course. Offered only in even-numbered Spring semesters, e.g., Spring 2018. Cr 3

SCI/SBS 336 Introduction to Public Health
This course provides an overview of the public health system and examines the purpose, history, organization, approach, functions and determinants of health. The course places special emphasis on current health issues from our daily lives to highlight the relevance of public health. Trends, successes and challenges from a population perspective will be discussed as well as various tools and techniques used to address public health issues. Offered Fall only. Cr 3

SCI/SBS 337 Introduction to Epidemiology
This seminar course introduces the student to epidemiology as a utility for the establishment and maintenance of public health. In essence, epidemiology involves the observation and statistical analysis of the occurrence of health and disease in human populations. This science informs the practice of preventive health/disease control and the formulation of public health policy. Seminar topics will be drawn from both infectious
and chronic disease epidemiology ranging from the historical plagues such as the Black Death to the modern plagues of AIDS, cancer, and obesity. Recommended prerequisites include Introductory Biology and Statistics. Offered Spring only. Cr 3

**SCI 345 Pathophysiology**
This course examines the physiologic, biochemical, genetic, and environmental bases of noninfectious diseases. The cardiovascular, endocrine, and respiratory systems will be studied closely with emphasis on inflammation, immunity, cancer, fluid distribution, electrolytes, and acid-base balance. This course meets the pathophysiology requirement for entry into the USM Nursing program. Prerequisites: This course is identical to SCI 380 Pathophysiology I. A grade of C or higher in SCI 108 or SCI 113/115, SCI 170/171 and SCI 281. 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

**SBS/SCI 351 Emerging Infectious Diseases: From AIDS to Zika**
Due to unprecedented emergence rates, Emerging Infectious Diseases (EIDs) have taken center stage in our society over this past decade. These diseases include SARS, MERS, Ebola, chikungunya, avian flu, AIDS and most recently, Zika. The emergence of these diseases is multifactorial in nature. Our approach in confronting these diseases needs to be dynamic, systemic, and critical, and must include the collaboration of basic scientists, clinicians, social scientists, and epidemiologists. Course content will range from molecular scientific phenomena to public health and social policy issues encountered by individuals, families, and society. This course is particularly relevant for NAS, SBS, and Public Health Students. Offered Fall only. Cr 3

**SCI 355 Ecology w/ Lab**
This lecture and laboratory course examines the theoretical bases upon which ecological investigations are based. The laboratory portion of the course consists primarily of fieldwork during which students complete an ecological assessment of local habitat. Prerequisites: SCI 105/106 and SCI 230 or ESP 101. Offered Fall only. Cr 4.5

**SCI 359 Cancer and Society**
This course will use an epidemiological framework to explore the scientific background and genetic, social, physical, and biological determinants of cancer. The course will examine the response of individual, family, and society to a diagnosis of cancer. Traditional and non-traditional medical approaches to a diagnosis of cancer will be explored. Prerequisites: A grade of C or higher in SCI 209 or SBS/HRD 200, or permission of the instructor. Cr 3

**SCI 360 Sustainability Issues**
Sustainability is one idea that shapes the past and future of the human race. The goal of this course is to allow students to develop a comprehensive worldview from which to evaluate current environmental issues and problems. Students will discuss concepts and data derived from the disciplines of ecology, biology, ethics, sociology, and politics and application of those concepts to sustainable development and the sociopolitical ramifications of environmental issues. Prerequisites SCI 230 and SCI 107. Offered Spring only. Cr 3

**SCI 398 Independent Study**
Prerequisite: permission of the instructor. Cr 1-6

**SCI 399 Special Topics**
This is a class that has topics that vary from year to year and is meant to be taught at the junior or senior level and may include prerequisites. Cr 1-6

**SCI 421 Natural Resource Policy**
Examination of natural resource policies and evaluation procedures used by natural resource decision makers. Case studies focus on topics such as forest industry regulations, the Endangered Species Act, the Maine Environmental Priorities Project, transboundary ecosystems, aquatic and estuarine areas, and marine resources. Emphasis is on natural resource policy processes, conflict resolution through consensus building, and comparative risk assessment as it pertains to policy. Prerequisite: SCI 230 or permission of the instructor. Cr 3

**SCI 440 Sustainability Projects**
Students completing Sustainability Projects will develop understanding of the depth and meaning to the term "sustainability" and its differentiation from "sustainable development". This may include topical material on Sustainability Principles, Local and Global Climate Change, and Consumption Patterns in the developed and developing world with an eye towards local and regional consumption patterns. Also topics of Environmental Refugees, population transitions and migration, utilizing Maine examples, may be explored as well as general ecosystem threats and challenges. Topics will center on the Human Animal as a sustainable individual and species and local food production (fad or changing marketplace). Outcomes include: Relevant literature review and problem awareness, challenge determination, proposal writing and presentation, community-based challenge protocol formulation; field experiences and report writing and community presentation. Prerequisites: SCI 360 or permission of the instructor. Cr 3

**SCI 450 Science in the Classroom**
This integrated lecture and laboratory course is designed for secondary teachers, summer camp counselors, parents, and others who wish to interest children in science. The course discusses the history of science teaching, science reform movements, and the development of science lesson plans. It 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. Maine State Department of Education, Division of Certification and Placement, accepts this course as an elementary science methods course. Cr 3

**SCI 470 Neurophysiology**

This course examines the functional processes of human neurophysiology at the molecular and cellular level. Through referencing scientific literature and engaging with in-class manipulatives, students actively will construct their knowledge of neural principles ranging from the kinetics of excitable membranes to the summative activity of neural networks. Course content will be directed towards preparing students for success in OTH 520 Neuroscience for Occupational Therapists. Prerequisites: Human Anatomy & Physiology II or Molecular Physiology. Offered Summer only. Cr 3

**MAT 242 Applied Problem Solving**

This course is designed to introduce mathematical concepts and apply them to solving problems in various contexts. The focus will be on mathematical ideas required by Maine's Learning Results. Topics include sets, functions, logic, numeration systems, number theory, geometry, and calculus. Students will formulate key questions, gather and organize data, discover patterns and similarities, interpret and communicate information. Offered only at Lewiston-Auburn College. Prerequisite: MAT 108. Cr 3.
BA in Social and Behavioral Sciences

Description

The Social and Behavioral Sciences major is an interdisciplinary program providing perspectives and critical analyses from Anthropology, Psychology, and Sociology to prepare students for the complexity of diverse local communities and the global world we live in. The major provides an excellent foundation for careers in social services, mental health, public health and public safety, early childhood care and education, law and public policy. Designed to enhance understanding of the psychosocial and cultural influences shaping individual lives and social institutions, the curriculum interweaves interdisciplinary courses in liberal arts with foundational SBS courses and an extensive array of electives, including professional applications.

With approximately 70 community partners in the local area, SBS embraces community engagement as a high-impact practice that fosters engagement in civic life and ethical citizenship.

The major provides tremendous flexibility to students who wish to design their own focal area, while also offering an array of predesigned pathways of specialization: Counseling, Early Childhood Studies, Public Health, Community Response and Mental Health, and Regulatory Ethics. In all of these areas, exploring the intersections of individual, social, and cultural influences deepens understanding and professional competencies. Students may also choose to integrate the SBS major with related minors or certificates, such as Leadership and Organizational Studies, Gerontology, or certification as an Early Childhood Teacher (Maine 081 endorsement) or Mental Health Rehabilitation Technician/Community (MHRT/C).

A critical component of the SBS degree program is the internship (LAC 447). With the assistance of their faculty advisor and the Internship Coordinator, students identify an organization that will enable them to evaluate potential career opportunities and develop workplace skills. Students also participate in a sequence of two 1.5-credit hour seminars where they learn aspects of career decision making and launching a successful career.

The SBS major provides accelerated pathways to graduate programs at USM, including the Master of Occupational Therapy (MOT) program, the Master of Leadership Studies (MLS) program, the Master of Public Health (MPH) program, the Master of Social Work program and the Master of Counseling program.

The general SBS degree is available fully online. The certificates, concentrations and minors are not available fully online; however some of the required courses may be offered in online format. For more information contact Admissions at admitusm@maine.edu or visit the Office of Undergraduate Admission.

Chair - Carol Nemeroff, Ph.D.

Faculty - Rose Cleary, Ph.D.; Laurie Cyr-Martel, D.BH, LCPC; Christy Hammer, Ph.D.; Jan Hitchcock, Ph.D.; Margaret Merrill, Ed.D.; Carol Nemeroff, Ph.D.; Mary Anne Peabody, Ph.D.; Mark Silber, Ph.D.; Michelle Vazquez Jacobus, M.S.W, J.D.

Program Requirements

Requirements for the major may be met through coursework, prior learning assessments sponsored by USM, or in rare cases through waivers (worked out with advisors in conjunction with course instructors). 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 may work with their advisor for this permission. Before taking 300-level courses in this major, students must have completed a 100-level college writing course with a grade of at least C+.

SBS Prerequisite Courses are expected to be taken before 300-level courses:

- SOC 100 Introduction to Sociology
- PSY 101 General Psychology I
- PSY 102 General Psychology II
- ANT 101 Anthropology: The Cultural View

SBS Required Courses:
Students complete at least six upper division (300-level or above) electives in SBS. They may select a concentration to structure their choice of electives. Alternatively, they may more fully customize their choices for the general degree, selecting a minimum of two courses from the list of Fundamentals, below, and the remainder from any 300-level or above SBS electives.

- For a complete list of SBS courses click here.
- For information on SBS Concentrations, Minors, and Certificates click here.

Fundamentals:
- SBS/SCI 209 Human Genetics
- LOS/SBS 301 Group Dynamics
- SBS 305 Child Development
- SBS 306 Adolescence
- SBS 310 Childhood and Society
- SBS 311 Theories of Personality
- SBS 341 The Family
- SBS 345 Diversity: Many Voices
- LOS/SBS 381 Introduction to Globalization
- SBS 390 Brain and Behavior

USM Core Requirements and General Electives:

In addition to completing course requirements for the major, baccalaureate degree students must meet the proficiency and residency requirements of the University of Southern Maine, and complete the Core curriculum and additional courses to accrue a minimum of 120 credit hours of coursework. For information on the USM core requirements, click here: http://usm.maine.edu/core/usm-core-curriculum#meeting. (Note: all USM core requirements may be met with LAC-based courses.)

Because of its interdisciplinary nature, the SBS degree has extensive overlap with the USM core, providing a highly efficient pathway to degree completion and additional freedom in selecting courses to reach the 120 credit hour minimum. The following SBS required courses also fulfill USM core curriculum requirements (note that this is not a complete list of LAC-based courses that fulfill USM core requirements):

- ANT 101 Anthropology: The Cultural View - meets either the Diversity (DIV) or the International (INT) core requirement
- SOC 100 Introduction to Sociology - meets the Socio-Cultural Analysis (SCA) requirement
- LAC 120 Statistics for Informed Decision-Making - meets the Quantitative Reasoning (QR) requirement
- SBS 300 Deviance and Social Control - meets the Diversity (DIV) requirement
- LAC 370 Toward a Global Ethics - meets both the Ethical Inquiry, Social Responsibility, and Citizenship (EISRC) and the International (INT) requirement
- LAC 480 Senior Seminar - meets the Capstone (CAP) requirement

Additional courses towards the required minimum of 120 credits may be chosen from any other courses within or outside of the major (general electives) based on student interests, career plans, and prior transfer credits. In some cases, this may entail pursuit of a minor or certificate. Students should consult with their advisors on these choices.

Concentrations, Minors, and Certificates

In addition to the general SBS degree, SBS offers four concentrations for SBS majors:

- Counseling
- Early Childhood Studies
- Public Health
Community Response and Mental Health.

SBS offers three minors available to students in any USM major:

- Early Childhood Studies
- Public Health
- Regulatory Ethics

Finally, SBS offers four certificate pathways:

- The MHRT/C track within the Counseling Concentration (open only to SBS majors in the Counseling Concentration)
- The 081 Early Childhood Teacher Birth - Age 5 (open to Early Childhood Studies minors)
- The Undergraduate Certificate in Public Health (open to anyone, not limited to SBS or USM majors)
- The Undergraduate Certificate in Regulatory Ethics (open to anyone, not limited to SBS or USM majors)

In addition, SBS graduates are eligible to apply for the Maine CADC (Certified Alcohol and Drug Counselor) examination, and the LSX (Licensed Social Worker - Conditional).

For more information on SBS concentrations, minors, and certificates, see http://usm.maine.edu/sbs/degrees

**Recommended Course Sequence**

Before taking 300-level courses in this major, students must have completed a 100-level college writing course with a grade of at least C+.

To avoid slowing student progress toward their degree, SBS courses have very few formal prerequisites. However the recommended progression is as follows (with general electives filling out semesters as needed):

1. College Writing, EYE, SBS Prerequisites, LAC 120, and SBS/HRD 200
2. USM core courses, SBS 300 or 310, LOS/SBS 329, LAC 269, and SBS electives
3. USM core courses, LAC 370, LAC 413, SBS electives
4. SBS 430, LAC 447 (Internship), LAC 480 (Capstone), SBS electives

**Admission Information**

For more information about the fully online option, contact Admissions at admitusm@maine.edu.

**Certificate in Public Health**

**Description**

The Certificate in Public Health is open to anyone.

This certificate addresses a need for awareness of public health issues not only in Maine, but the whole world. Evolutionary and multicultural aspects of diseases and their interface with human populations are daily headlines in the media: for instance, health care systems; food utilization and governmental policies; epidemics of flu, HIV/AIDS, drug-resistant strains of TB, and other emerging infectious diseases; as well as the threat of bioterrorism, are all concerns of the discipline of Public Health. Preparing undergraduates, decision makers, and policy advocates to understand the multitude of public health concerns and apply relevant knowledge is essential in today's world. The Public Health Certificate can complement the preparation of students and professionals working in human services and allied health and applied sciences, providing them with the capacity to contribute to relevant policy-making and advocacy.

**IMPORTANT:** Public Health is also available as a Concentration for students majoring in Social and Behavioral Sciences (SBS), and as a Minor for students in any degree program at USM. This page describes the Public Health Certificate. Click here for information on the Public Health Concentration, and here for information on the Public Health Minor.

**Graduate Study in Public Health:**
Individuals pursuing the Public Health Certificate may also be interested in USM's Master of Public Health program.

**Program Requirements**

**Required courses**
- SBS 335 Legal Issues in Health and Human Services
- SBS/SCI 336 Introduction to Public Health
- SBS/SCI 337 Introduction to Epidemiology

**In addition, one of the following elective courses must be completed:**
- ANT 233 Food and Culture
- SBS 304 Food, Culture and Eating
- SBS 308/ANT 302 Medical Anthropology

*A minimum grade of C in each course is required to earn the certificate.

**Admission Information**

Please visit the [Office of Undergraduate Admission](#) for application information.

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**Certificate in Regulatory Ethics**

**Description**

The Certificate in Regulatory Ethics is open to all students.

Addressing a need for regulatory expertise in an increasingly complex world of intersecting rules and requirements, the undergraduate Certificate in Regulatory Ethics presents an interdisciplinary approach to understanding regulation, an enterprise that cuts across a wide array of domains ranging from health and social services, to education, business, energy, environment, and more. The certificate provides an overview of the sociocultural bases of the need to regulate and the relationship between regulation and ethics, as well as the psychological processes that impact policy-making and drive reactions to regulation. Students will gain a basic understanding of the structure of regulation, where to find relevant information and how to navigate through it, as well as when to call in legal expertise.

Important: Regulatory Ethics is also available as a [Minor](#). This page describes the Regulatory Ethics [Certificate](#). Click here for information on the Regulatory Ethics [Minor](#).

**Program Requirements**

The certificate is comprised of three required courses and one elective.

The following three courses are required:

- SBS 362 Understanding Regulation: Applying Scissors to Red Tape
- SBS 399 Special Topics: Human Factors in Regulation, Compliance, and Policy
- LAC 370 Toward a Global Ethics

In addition, one of the following elective courses must be completed:

- Business, Finances, and Labor
  - ACC 418 Principles of Fraud Examination
  - BUS 280 Legal Environment of Business
  - BUS 312 Sport Law
  - BUS 318 Athletics Administration
  - BUS 346 Human Resource Management
BUS 382 International Business Law
ITS 320 Occupational Safety and Health
LOS 314 Employee Relations
LOS 316 Entrepreneurship
TAH 221 Introduction to Hospitality Management

Environment, Energy, and Technology
ECO 326 Environmental Economics
ECO 327 Natural Resource Economics
ESP 200 Environmental Planning
ESP 220 Introduction to Environmental Policy
ESP 340 Environmental Regulations
ITT 376 Network Security and Ethics
LOS 310 Science, Technology, and Society
PHI 212 Medical Ethics
PHI 212 Environmental Ethics
PHI 285 Biology, Technology, and Ethics
POS 315 Media Law
PPM 683 Environmental Law and Policy (graduate level; requires permission of instructor)
SBS 470 Study Abroad: Experiential Cross-Cultural Ethics Lab

Food, Drugs, and Devices
ANT 302/SBS 304 Medical Anthropology
PPM 672 Food Planning and Policy (graduate level; requires permission of instructor)

Health and Human Services
ADS 300 Ethics and Youth with Exceptionalities
EDU 659 Special Education Law for School Leaders (graduate level; requires permission of instructor)
EDU 691 Sports Law and Regulation Compliance (graduate level; requires permission of instructor)
LOS/SBS 316 Diversity in Organizations
MPH 425/525 American Health Systems
MPH: other graduate level courses by permission of instructor (e.g., MPH 635 Health Law and Ethics; MPH 660 Health Policy; MPH 684 Bioethics, Medicine, and Law)
SBS 315 Social Psychology of Disability
SBS 335 Legal Issues in Health and Human Services
SBS 338 Health Care Policies (offered irregularly)
SBS 339 Immigration, Ethnicity, and Identity
SBS/ECE/LAE 393 Exceptionality in Early Childhood Education
SBS 345 Diversity: Many Voices
SBS 435 Children, Policy, and Law (offered irregularly)
SED 335 Students with Exceptionalities in General Education
SED 682 Special Education Regulations, Procedures and IEP team(graduate level; requires permission of instructor)

Policy and planning
ESP 200 Environmental Planning
LOS 322 Leadership in the Public/Nonprofit Sectors
LOS 325 State and Local Government
LOS/SBS 436 Risk, Public Policy, and Society
PPM 616 Policy, Planning, and Management Law (graduate level; requires permission of instructor)
MPH 635 Health Law and Ethics (graduate level; requires permission of instructor)
PPM 633 Strategic Planning in the Public and Nonprofit Sectors (graduate level; requires permission of instructor)
PSY 375 Psychology in the Public Interest
SBS/LOS 430 Applied Social Policy
SWO 350 Social Welfare Policy

Permissible Substitutions
Online training modules on subtopics in regulatory compliance are currently in-development through the Cutler Institute, including Clean Tech, Food Regulations and the FDA, International Importing/Exporting, Manufacturing, Shipping, and Transportation, OSHA, and Research Regulation. Students may take any three of these modules, and then work individually with a supervisor
from MeRTEC (the Maine Regulatory Training and Ethics Center) in an Independent Study to integrate across domains and deepen their understanding, to earn the equivalent of one 3-credit elective course. This is allowed for one, but not both, of the required electives.

- Alternative courses may be accepted by individual approval. Any graduate course in a relevant content domain will be accepted with instructor and advisor approval.
- Students whose career will focus on educational contexts may substitute EDU 310 What is the Purpose of Schooling in a Democracy for LAC 370 Toward a Global Ethics.

A minimum grade of C in each course is required to earn the certificate.

**Admission Information**

Please visit the Office of Admissions for application information.

**Concentration in Community Response and Mental Health - Social and Behavioral Sciences**

**Description**

The Community Response and Mental Health concentration within the Social and Behavioral Sciences major is open to all SBS students, but is especially recommended for those entering public safety careers who wish to deepen relevant expertise and critical thinking skills, broaden career possibilities, and promote safety and understanding for all concerned.

A *concentration* is simply a way for students to organize their six required SBS electives.

Courses in the three foundational disciplines of SBS - Anthropology, Psychology, and Sociology - build multilayered understanding of individual, social, and cultural factors that influence behavior, and explore the nature of deviance and social control. Students gain familiarity with social support systems and issues facing institutions and agencies, as well as families and individuals who encounter public safety personnel. They acquire knowledge and tools to draw upon in dealing with cultural differences, mental health issues, crisis situations and trauma, including deepened understanding of how cultural differences and sociocultural contexts can play out in behavior that may otherwise be misinterpreted or seem random and unpredictable. Finally, students develop a skill set for understanding perceptions, reasoning, and emotional adaptation under conditions of stress (for self and others) - which can be crucial for public safety personnel. Coursework relevant to understanding evidence and, when appropriate, influencing social policy fill out the SBS curriculum.

Students in this concentration (including those transferring into SBS with a Criminal Justice AAS) can also complete the Maine MHRT/C (Mental Health Rehabilitation Technician/Community), or an undergraduate certificate or minor in Leadership Studies, within 120 credits by carefully selecting their courses. Students interested in these options should inform their advisor as early as possible.

- See the SBS Counseling Concentration page for additional information about the MHRT/C.
- See the Certificate in Leadership Studies or Minor in Leadership Studies pages for further information about these options.

Students wanting to pursue the Community Response and Mental Health concentration should complete the necessary paperwork so that it appears on their MaineStreet academic plan.

**Program Requirements**

Students meet all University and SBS requirements as listed in the BA. For their six required SBS electives, students select one course from each category below.

**Category 1: Biological bases of behavior in health and illness**

- SBS 303 Abnormal Psychology
- SBS 350 Psychosocial Disorders of Childhood and Adolescence (for those planning to work with children/adolescents/juveniles)
- SBS 390 Brain and Behavior

**Category 2: Responding to Trauma/Crisis**
Concentration in Counseling - Social and Behavioral Sciences

Description

The Counseling Concentration is available to SBS majors. A concentration is simply a way for students to organize their six required SBS electives at the 300-level or above for the major.

SBS students in the Counseling Concentration may also take the MHRT/C subtrack; see below for more information.

The Counseling Concentration provides students with an introduction to theory, topics, and skill areas relevant to professional applications in counseling. Embedded in the interdisciplinary SBS major, it provides perspectives and critical thinking skills related to the multiple layers of influence - individual, social, and cultural - that shape human behavior. Students gain familiarity with developmental trajectories and the roots of personality; issues of diversity, gender, and culture; biopsychosocial approaches to diagnosis; social services and factors that impact access to them; and the broad array of available counseling and psychotherapy techniques. They can also choose from special topics such as Substance Abuse, Introduction to Expressive Therapies, Legal Issues in Health and Human Services, Brain and Behavior, occasional offerings such as Behavioral Forensics, and many more. Coursework relevant to understanding and, when appropriate, influencing social policy fills out the SBS curriculum.

Organizing the choice of SBS electives through this concentration strengthens students' preparation for entry into a variety of positions related to the helping professions, as well as for the pursuit of graduate study.

Students should complete the necessary paperwork so that the counseling concentration appears on their MaineStreet academic plan.

MHRT/C:
Students who wish to earn the Maine MHRT/C (Mental Health Rehabilitation Technician - Community) certificate should inform their advisor as early as possible. There are three levels of certification.

1. All graduates of the SBS program are eligible for the MHRT/C Provisional Level A.
2. Students in the MHRT/C subtrack of the Counseling Concentration who have completed all MHRT/C track required courses, with the exception of their Internship, are eligible for the MHRT/C Provisional Level B (which provides expanded internship opportunities).
3. SBS students who have completed the MHRT/C subtrack of the Counseling Concentration earn the MHRT/C Full certificate upon graduation.

See also the MHRT/C advising handout.

Social Work:

Students interested in Social Work should use the following advising sheet: Advising Sheet.

Graduate School Options:

Accelerated undergraduate to graduate pathways from the SBS Counseling Concentration to USM Masters degree programs in Counseling and Social Work are available. Check with your advisor for more information.

Program Requirements

In addition to the requirements listed in the BA, the following requirements apply to the Counseling Concentration:

Students select their six SBS electives by taking two foundational courses, plus one chosen from each of the four categories below. Any substitutions must be approved by a faculty adviser. In addition, the internship must be in a counseling/clinical setting (broadly defined).

Foundational courses (both are required for the concentration):

SBS 311 Theories of Personality*
SBS 411 Counseling and Psychotherapy*

Plus one course selected from each of the following categories:

Psychosocial Disorders and Services:
SBS 303 Abnormal Psychology*
SBS 346 Introduction to Social Services*
SBS 348 Responding to Mental Health Crisis in the Community
SBS 350 Psychosocial Disorders of Childhood and Adolescence

Diversity and Multiculturalism:
SBS 315 The Social Psychology of Disability*
SBS 316 Diversity in the Workplace
SBS 345 Diversity: Many Voices
SBS 470 Study Abroad

Developmental Contexts:
SBS 305 Child Development
SBS 306 Adolescence
SBS 341 The Family

Applied Topics:
SBS 304 Food, Culture, and Eating
SBS 308/ANT 302 Medical Anthropology
SBS 332 Death, Dying, and Denial
SBS 343 Substance Abuse*
SBS 344 Violence: Causes and Control
SBS 349 Trauma and Narrative
SBS 390 Brain and Behavior
SBS 420 Mindfulness
SBS 450 Assessment of Individual Differences in Children
Students wishing to earn the MHRT/C must select: all of the starred (*) courses; plus either SBS 348 or SBS 349; and any course from the Developmental Contexts category. Only students in the SBS Counseling Concentration may take the MHRT/C subtrack. Note that the subtrack requires 8 courses rather than 6; the additional 2 are used to fulfill general electives. For more information, see the MHRT/C advising handout.

**Recommended Course Sequence**

**Concentration in Early Childhood Studies - Social and Behavioral Sciences**

**Description**

Early Childhood Studies Concentration

A concentration is a way for SBS majors to organize their six required SBS electives. For the **Early Childhood Studies Concentration** within the SBS major, one course is selected from each of the six categories described below. These six content categories are based upon the recommendations of the National Association for the Education of Young Children (NAEYC) and our community advisors. Any substitutions must be approved by a faculty advisor.

Important: Please note that Early Childhood Studies is also available as a minor, with or without the **Early Childhood Teacher (birth - age 5) 081 certification**. This page describes the Early Childhood Studies Concentration. Click [here](#) for information on the Minor, with or without 081 Certification.

The Early Childhood Studies Concentration provides the skills needed of professionals working with young children and their families, as well as the academic background required for graduate study or advanced training in the field. Students develop perspectives and critical thinking skills needed to understand the multilayered influences that shape human development. Contemporary content prepares students for the growing challenges facing young children in the 21st century, when early childhood professionals are increasingly called upon to understand not only healthy child development, but also: brain development in the first years of life; parenting; cultural and societal contexts; immigration; social, emotional, and mental health concerns including trauma-informed care; poverty; and policies that support or restrict development in this critical period. Head Start, home visiting programs, parent education programs, the Department of Health and Human Services, public education preschools, the Children’s Museum and Theatre, and private early learning centers all work with our faculty and students to bridge theoretical knowledge with real world application.

Students pursuing Early Childhood Studies (ECS) as either a minor or a concentration must complete the necessary paperwork in the Student Success Center so that ECS appears on their MaineStreet Academic Plan.

**Maine 081 Early Childhood Teacher (081 birth-5) Endorsement**

Students may also choose to earn their certification from the State of Maine in **Early Childhood Teacher (081 birth-5)** which requires specific courses within and beyond the ECS Minor. Click [here](#) to navigate to the ECS Minor page for details.

**Program Requirements**

**Early Childhood Studies Concentration:**

In addition to the requirements listed in the [BA](#), the following requirements apply to the Early Childhood Studies Concentration. Requirements for the Minor are listed on a separate catalog page.

Choose one course from each of the following six categories: child development, family, leadership and professionalism, systems, children and evaluation, and teaching/preparing children for learning.
1. Child Development

SBS/HRD200: Multicultural Human Development
SBS 305: Child Development

2. Family

SBS 341: The Family*

3. Leadership and Professionalism

SBS 301: Group Dynamics
SBS 302: Interpersonal Behavior

4. Systems

EDU/LAE 200: Education in the U.S
SBS 310: Childhood and Society*
SBS 346: Introduction to Social Services

5. Children and Evaluation

SBS 350: Psychosocial Disorders of Childhood and Adolescence
SBS 375: Infant Mental Health & Attachment*
SBS 450: Approaches to Assessing Individual Differences in Children

6. Teaching / Preparing Children for Learning

SBS 199: Introduction to Early Childhood
SBS 336: Children’s Literature*
SBS 340: Language Acquisition and Development*
SBS/ECE/LAE 391: Mathematics in Early Childhood Education*
SBS/ECE/LAE 392: Science in Early Childhood Education*
SBS/ECE/LAE 393: Exceptionality in Early Childhood Education*

* Courses denoted with an asterisk (*) are ECT 081 certification required courses

Concentration in Public Health

Description

A concentration is simply a way for SBS majors to organize their six required SBS electives at the 300-level or above.

The Public Health Concentration addresses a need for awareness of public health issues not only in Maine, but in the whole world. Evolutionary and multicultural aspects of diseases and their interface with human populations are daily headlines in the media: for instance, health care systems; food utilization and governmental policies; epidemics of flu, HIV/AIDS, drug-resistant strains of TB, and other emerging infectious diseases; as well as the threat of bioterrorism, are all concerns of the discipline of Public Health. Professions that utilize knowledge of public health include medical and allied health and human services, mental health, gerontology, and child and family support. Public health approaches address the full spectrum of services, planning, and evaluation.

The Public Health concentration is intended to prepare SBS majors to become decision makers and policy advocates by shaping their ability to understand myriad public health concerns, and developing their facility in applying pertinent theoretical and practical knowledge to create a safe and functioning society. The concentration also prepares students for the pursuit of graduate study in Public Health and Policy.

Important: Public Health is also available as a Minor for students in any USM degree program, and as a Certificate, which is open to anyone. This page describes the Public Health Concentration. Click here for information on the PH Minor, and here for information on the PH Certificate.
Students should complete the necessary paperwork so that the Public Health Concentration appears on their MaineStreet academic plan. Please contact the Student Success Center at Lewiston-Auburn College: 753-6536.

Graduate Study in Public Health:

SBS majors pursuing the Public Health concentration may also be interested in USM's Master of Public Health program and the Accelerated degree option. Qualified students may replace up to two undergraduate SBS Public Health courses with graduate-level MPH counterparts:

"Qualified students from other USM and University of Maine System graduate degree programs, and health-related undergraduate programs, may be eligible for accelerated degree options. Undergraduate students are encouraged to explore careers in public health. Interested students are welcomed in MPH 400-Level (advanced undergraduate) and MPH 500-level (entry graduate) courses, in accordance with the requirements of their undergraduate degree programs. Interested non-degree undergraduate students should contact the program chair of the Master of Public Health." Click here for more information.

Please visit the Office of Undergraduate Admission for application information.

Program Requirements

In addition to the requirements listed in the BA, the following requirements apply to the Public Health Concentration:

Required courses
- SBS 308/ANT 302 Medical Anthropology
- SBS 335 Legal Issues in Health and Human Services
- SBS/SCI 336 Introduction to Public Health
- SBS/SCI 337 Introduction to Epidemiology
- EITHER SBS 304 Food, Culture and Eating OR ANT 233 Food and Culture

Public Health elective
Students select one of the following or, with advisor approval, a course equivalent in substance and intent:
- SBS 339 Immigration, Ethnicity, and Identity
- SBS 341 The Family
- SBS 343 Substance Abuse or CON 497 Substance Use and Abuse: Issues and Policies
- SBS 344 Violence: Causes and Control
- SBS 345 Diversity: Many Voices
- SBS 350 Psychosocial Disorders of Childhood and Adolescence
- SBS/LOS 436 Risk, Public Policy, and Society
- SCI 315 Environmental Health

Minor in Early Childhood Studies

Description

Early Childhood Studies Minor (with or without Early Childhood Teacher 081 endorsement)

The Early Childhood Studies Minor is available to any student regardless of major, as well as to SBS majors. The minor provides the skills needed of professionals working with young children and their families, developing perspectives and critical thinking skills needed to understand the multilayered influences that shape human development. Contemporary content prepares students for the growing challenges facing young children in the 21st century, when early childhood professionals are increasingly called upon to understand not only healthy child development, but also: brain development in the first years of life; parenting; cultural and societal contexts; immigration; social, emotional, and mental health concerns including trauma-informed care; poverty; and policies that support or restrict development in this critical period. The six content categories included in the minor are based upon the recommendations of the National Association for the Education of Young Children (NAEYC) and our community advisors. Any substitutions must be approved by a faculty advisor.

Important: Please note that Early Childhood Studies is also available as a concentration within the SBS major. A concentration is simply a way for SBS majors to organize their six SBS electives. A minor requires additional coursework beyond the requirements of the major. This page describes the Early Childhood Studies Minor. Click here for information on the concentration.
Students pursuing Early Childhood Studies (ECS) as either a minor or a concentration must complete the necessary paperwork in the Student Success Center so that ECS appears on their MaineStreet Academic Plan.

**Maine 081 Early Childhood Teacher (081 birth-5) Endorsement**

Students pursuing the *Minor in Early Childhood Education* may also choose to earn their certification from the State of Maine in *Early Childhood Teacher (081 birth-5)*, which requires specific courses within and beyond the ECS Minor. See *Program Requirements* for more information.

**Program Requirements**

**Early Childhood Studies Minor**

*In addition to the requirements listed in the BA, the following requirements apply to the Early Childhood Studies Minor.*

*Non-SBS students* complete the ECS minor with one course from the six categories described below. *SBS students* wanting to complete the ECS Minor must complete one course in each of the six categories described below plus four additional courses in SBS.

Choose one course from each of the following six categories: child development, family, leadership and professionalism, systems, children and evaluation, and teaching/preparing children for learning.

1. **Child Development**

   SBS/HRD 200 Multicultural Human Development  
   SBS 305 Child Development

2. **Family**

   SBS 341 The Family*

3. **Leadership and Professionalism**

   SBS 301 Group Dynamics  
   SBS 302 Interpersonal Behavior

4. **Systems**

   EDU/LAE 200 Education in the U.S  
   SBS 310 Childhood and Society*  
   SBS 346 Introduction to Social Services

5. **Children and Evaluation**

   SBS 350 Psychosocial Disorders of Childhood and Adolescence  
   SBS 375 Infant Mental Health & Attachment*  
   SBS 450 Approaches to Assessing Individual Differences in Children

6. **Teaching / Preparing Children for Learning**

   SBS 199 Introduction to Early Childhood  
   SBS 336 Children’s Literature*  
   SBS 340 Language Acquisition and Development*  
   SBS/ECE/LAE 391 Mathematics in Early Childhood Education*  
   SBS/ECE/LAE 392 Science in Early Childhood Education*  
   SBS/ECE/LAE 393 Exceptionality in Early Childhood Education*

* Courses denoted with an asterisk (*) are ECT 081 certification required courses

**Early Childhood Teacher (081 Birth - Age 5) Certification with Early Childhood Studies Minor**

The State of Maine’s Early Childhood Teacher certification (081), which currently covers children from birth to age five, is required for public school pre-K programs and other federally funded programs. This specific credential ensures that early educators have specialized training specific to the developmental levels of the children with whom they work. The Early Childhood Teacher Endorsement (081) is a different
For the Early Childhood Teacher (081) certification, the ECS Minor is declared and the student completes either SBS/HRD 200 (an SBS requirement) or SBS 305, plus all asterisked (*) courses above. Note that if a student is pursuing the Early Childhood Studies (ECS) minor with 081 certification, the SBS required internship course (LAC 447) must be taken with a placement in Early Childhood Education. Students are advised to consult with their faculty advisors early regarding choice of internship placements.

Acceptance into the Bachelor of Arts in Social and Behavioral Sciences and the Early Childhood Teacher (081) Certification Track is contingent upon admission to USM, declaration of the Early Childhood Teacher (081) Certification Track through the Office of Educator Preparation in Tk20, and successful completion of the University's writing and mathematics proficiency requirements. The acceptance criteria, declaration procedures, and candidacy directions can be found on the OEP web site at http://usm.maine.edu/educatorpreparation. Acceptance criteria include passing Praxis Core, a GPA of 3.0, a current state criminal history record check, an essay, and two recommendation forms. Once the declaration has been accepted, students must subscribe and pay for Tk20. Students in the Early Childhood Teacher (081) Certification Track must maintain a GPA of 3.0 through out their program and complete candidacy prior to the LAC447 Internship (with an Early Childhood placement). Candidacy includes passing Praxis II, a GPA of 3.0, an essay, three recommendation forms, and interview.

**Tk20 Subscription:**

All undergraduate and graduate students who matriculate into an Educator Preparation program or pathway in USM as of summer 2013 or later are required to subscribe to the Tk20 online data management system. The subscription allows students to use the system for assessment, advisement, field-experience and career portfolio management. The one-time subscription fee of $103 covers some of the expenses related to the administration and assessment of the program. For loan purposes, it is eligible for consideration as part of the costs. The subscription payment must be made by each student during the first semester of program or pathway matriculation (check with individual programs and pathways for specific subscription timelines). Subscription instructions are posted on the Office of Educator Preparation website: http://usm.maine.edu/educatorpreparation

**Professional Education Council Policy:**

In order for USM's Education Preparation Unit program completers to be recommended by the institution to the state for certification or licensure, the candidate must provide evidence of meeting all certification requirements including proficiency of the standards relevant to his/her state approved professional program and this evidence must be compiled and assessed within the context of the Unit's data management system (i.e. Tk20).

Students who fail to meet any of the academic or professional requirements of this track of the major must withdraw from this track, though they may still complete all requirements for the B.A. in Social and Behavioral Sciences and the Early Childhood Studies minor without 081 certification.

**Requirements for students pursuing 081 certification with approved corresponding SBS courses - 3 semester hours in each:**

<table>
<thead>
<tr>
<th>SBS Course</th>
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<tbody>
<tr>
<td>Child development or developmental psychology</td>
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<tr>
<td>Infant/toddler development</td>
</tr>
<tr>
<td>Language development &amp; early literacy</td>
</tr>
<tr>
<td>Children’s literature</td>
</tr>
<tr>
<td>Mathematics in Early Childhood Education</td>
</tr>
<tr>
<td>Science in Early Childhood Education</td>
</tr>
<tr>
<td>Exceptionality in Early Childhood Education</td>
</tr>
</tbody>
</table>

| SBS/HRD 200 or SBS 305                         |
| SBS 375                                        |
| SBS 340                                        |
| EDU 336                                        |
| SBS/ECE/LAE 391                                |
| SBS/ECE/LAE 392                                |
| SBS/ECE/LAE 393                                |

**A minimum of six credit hours in at least 2 of the following areas: with SBS courses**

<table>
<thead>
<tr>
<th>SBS Course</th>
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</thead>
<tbody>
<tr>
<td>Family studies</td>
</tr>
<tr>
<td>Advanced child development</td>
</tr>
<tr>
<td>Assessment of young children</td>
</tr>
</tbody>
</table>

| SBS 341                                        |
| SBS 310                                        |
| SBS 450                                        |

Additional areas for credit hours: Observation of the young child; Early learning environments; Social studies for the young child; and, Additional early literacy.
Minor in Public Health

Description

The Minor in Public Health is open to students in any degree program at USM.

The Minor in Public Health advances students' understanding of myriad public health concerns and their ability to apply relevant theoretical and practical knowledge to contribute to a safe and functioning society. The Public Health Minor can complement professional preparation of students working in human services and in allied health and applied sciences, developing their capacity to contribute to relevant policy-making and advocacy. The Minor also prepares students for the pursuit of graduate study in Public Health and Policy. Professions that utilize knowledge of public health include medical and allied health and human services, mental health, gerontology, and child and family support. Public health approaches address the full spectrum of services, planning, and evaluation.

IMPORTANT: Public Health is also available as a Concentration for students majoring in Social and Behavioral Sciences, and as a Certificate, which is open to anyone. This page describes the Public Health Minor. Click here for information on the Public Health Concentration, and here for information on the Public Health Certificate.

Students should complete the necessary paperwork so that the Minor in Public Health appears on their MaineStreet academic plan. Please contact the Student Success Center at Lewiston-Auburn College: 753-6685.

Graduate Study in Public Health

Students pursuing the Public Health Minor may also be interested in USM's Master of Public Health program and the Accelerated degree option. Qualified students may replace up to two undergraduate SBS Public Health courses with graduate-level MPH counterparts.

"Qualified students from other USM and University of Maine System graduate degree programs, and health-related undergraduate programs, may be eligible for accelerated degree options. Undergraduate students are encouraged to explore careers in public health. Interested students are welcomed in MPH 400-Level (advanced undergraduate) and MPH 500-level (entry graduate) courses, in accordance with the requirements of their undergraduate degree programs. Interested non-degree undergraduate students should contact the program chair of the Master of Public Health."

Program Requirements

For all USM degree students, a total of six courses are required for the Public Health Minor. Students matriculated as Social and Behavioral Sciences (SBS) majors must also take four additional SBS courses (in any SBS elective area) beyond the six courses listed below

Students complete one course from each of the following areas:

Overview of Public Health Systems
   SBS/SCI 336 Introduction to Public Health

Basic concepts in Epidemiology (must be specifically rooted in Public Health applications vs. a more general Statistics or Research Methods course)
   SBS/SCI 337 Introduction to Epidemiology

Cultural perspectives on health
   SBS 308/ANT 302 Medical Anthropology

Legal and policy perspectives
   SBS 335 Legal Issues in Health and Human Services

Cultural Aspects of Nutrition and Food Systems
   EITHER ANT 233 Food and Culture OR SBS 304 Food, Culture and Eating

Students additionally select one Public Health elective (any program prefix) reflecting their professional interests within Public Health from the list below or, with approval of their advisor, a course that is equivalent in substance or intent:
   SBS 339 Immigration, Ethnicity, and Identity
   SBS 341 The Family
   SBS 343 Substance Abuse or CON 497 Substance Use and Abuse: Issues and Policies
Minor in Regulatory Ethics

Description

The Minor in Regulatory Ethics presents an interdisciplinary approach to understanding regulation, an enterprise that cuts across a wide array of domains ranging from health and social services, to education, business, energy, environment, and more. Thus, the minor is expected to appeal to a broad range of students including but not limited to those interested in pursuing a career in law. The minor provides an understanding of the sociocultural bases of the need to regulate and the relationship between regulation and ethics, as well as the psychological processes that impact policy-making and drive reactions to regulation. Students will gain an overview of the structure of regulation; become familiar with where to find relevant information and how to navigate through it; and understand when to call in legal expertise. They will select a specific regulatory domain to learn about in more depth, and complete a supervised internship experience. Regulatory expertise is highly desirable in an increasingly complex world of intersecting rules and requirements.

Important: Regulatory Ethics is also available as a Certificate. This page describes the Regulatory Ethics Minor. Click here for information on the Regulatory Ethics Certificate.

Students wishing to complete the minor should formally specify a Minor in Regulatory Ethics by completion of the necessary paperwork through the Student Success Center so that it appears on their transcript.

Program Requirements

A total of six courses are required for the Minor for students majoring in degrees other than SBS. Students matriculated as SBS majors, and wishing to complete the Minor, must take four additional SBS courses (in any SBS elective area) beyond the six courses listed below:

The following four courses are required:

- SBS 362 Understanding Regulation: Applying Scissors to Red Tape
- SBS 399 Special Topics: Human Factors in Regulation, Compliance, and Policy
- LAC 370 Toward a Global Ethics
- LAC 447 Internship or SBS 398 Independent Study. An individualized internship experience coordinated through the Maine Regulatory Training and Ethics Center (MeRTEC)

In addition, two of the following elective courses must be completed (any prefix, not necessarily from the same domain):

- Business, Finances, and Labor
  - ACC 418 Principles of Fraud Examination
  - BUS 280 Legal Environment of Business
  - BUS 312 Sport Law
  - BUS 318 Athletics Administration
  - BUS 346 Human Resource Management
  - BUS 382 International Business Law
  - ITS 320 Occupational Safety and Health
  - LOS 314 Employee Relations
  - LOS 361 Entrepreneurship
  - TAH 221 Introduction to Hospitality Management

- Environment, Energy, and Technology
  - ECO 326 Environmental Economics
  - ECO 327 Natural Resource Economics
- **ESP 200 Environmental Planning**
- **ESP 220 Introduction to Environmental Policy**
- **ESP 340 Environmental Regulations**
- **ITT 376 Network Security and Ethics**
- **LOS 310 Science, Technology, and Society**
- **PHI 212 Medical Ethics**
- **PHI 212 Environmental Ethics**
- **PHI 285 Biology, Technology, and Ethics**
- **POS 315 Media Law**
- **PPM 683 Environmental Law and Policy** (graduate level; requires permission of instructor)
- **SBS 470 Study Abroad: Experiential Cross-Cultural Ethics Lab**

- **Food, Drugs, and Devices**
  - **ANT 302/SBS 304 Medical Anthropology**
  - **PPM 672 Food Planning and Policy** (graduate level; requires permission of instructor)

- **Health and Human Services**
  - **ADS 300 Ethics and Youth with Exceptionalities**
  - **EDU 659 Special Education Law for School Leaders** (graduate level; requires permission of instructor)
  - **EDU 691 Sports Law and Regulation Compliance** (graduate level; requires permission of instructor)
  - **LOS/SBS 316 Diversity in Organizations**
  - **MPH 425/525 American Health Systems**
  - **MPH: other graduate level courses by permission of instructor (e.g., MPH 635 Health Law and Ethics; MPH 660 Health Policy; MPH 684 Bioethics, Medicine, and Law)**
  - **SBS 315 Social Psychology of Disability**
  - **SBS 335 Legal Issues in Health and Human Services**
  - **SBS 338 Health Care Policies** (offered irregularly)
  - **SBS 339 Immigration, Ethnicity, and Identity**
  - **SBS/ECE/LAE 393 Exceptionality in Early Childhood Education**
  - **SBS 345 Diversity: Many Voices**
  - **SBS 435 Children, Policy, and Law** (offered irregularly)
  - **SED 335 Students with Exceptionalities in General Education**
  - **SED 682 Special Education Regulations, Procedures and IEP team** (graduate level; requires permission of instructor)

- **Policy and planning**
  - **ESP 200 Environmental Planning**
  - **LOS 322 Leadership in the Public/Nonprofit Sectors**
  - **LOS 325 State and Local Government**
  - **LOS/SBS 436 Risk, Public Policy, and Society**
  - **PPM 616 Policy, Planning, and Management Law** (graduate level; requires permission of instructor)
  - **MPH 635 Health Law and Ethics** (graduate level; requires permission of instructor)
  - **PPM 633 Strategic Planning in the Public and Nonprofit Sectors** (graduate level; requires permission of instructor)
  - **PSY 375 Psychology in the Public Interest**
  - **SBS/LOS 430 Applied Social Policy**
  - **SWO 350 Social Welfare Policy**

- **Permissible Substitutions**
  - Online training modules on subtopics in regulatory compliance are currently in development through the Cutler Institute, including Clean Tech, Food Regulations and the FDA, International Importing/Exporting, Manufacturing, Shipping, and Transportation, OSHA, and Research Regulation. Students may take any three of these modules, and then work individually with a supervisor from MeRTEC (the Maine Regulatory Training and Ethics Center) in an Independent Study to integrate across domains and deepen their understanding, to earn the equivalent of one 3-credit elective course. This is allowed for one, but not both, of the required electives.
  - Alternative courses may be accepted by individual approval. Any graduate course in a relevant content domain will be accepted with instructor and advisor approval.
  - Students whose career will focus on educational contexts may substitute EDU 310 What is the Purpose of Schooling in a Democracy for LAC 370 Toward a Global Ethics.
SBS Course Descriptions

EYE 123/SBS 199 Our Brains at Play
This course will explore how play and interpersonal experiences forge key connections in the brain. By examining "our brains at play" student devote equal time to the fields of interpersonal neurobiology and play studies. The course will build communicative competence through experiential and cooperative learning, community engagement opportunities, class discussion on topics of ethical and social importance and oral and written assignments. Several times throughout the course, students will utilize a modification of the Lego® Serious Play® method, a kinesthetic and storytelling methodology for understanding how and why the interpersonal neurobiology of play contributes to the well-being of individuals, relationships, and society. Cr 3

HRD/SBS 200 Multicultural Human Development (SCA)
This course introduces developmental theory and research that encompasses the entire lifespan. Emphasis will be on prenatal development through adolescence, with an overview of adult development. A multi-disciplinary and multicultural view of human development will be taken by examining theories from a socio-cultural context and in consideration of change as well as stability throughout the life cycle. The interaction of hereditary, environmental, and socio-cultural factors will be considered in studying physical, cognitive, and psychosocial development. Prerequisites: Second semester freshmen or above; must have completed College Writing and an EYE course. This course is cross-listed with HRD 200. Cr 3

SBS/SCI 209 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. Prerequisite: any laboratory science course. Cr 3

SBS 300 Deviance and Social Control (DIV)
This course provides a forum to examine deviance and social control from sociological, psychological, ecological, environmental and cross-cultural perspectives, examining contested definitions of deviance, and different theories about deviance and social control. The course investigates the interrelationships of culture, power, identity formation and social change. Portrayals of deviance and social control in literature, film and popular culture will also be explored. Students challenge their critical thinking skills and will achieve a higher level of understanding about the relative notion of deviance, including how it relates to population size, and the nature(s) and type(s) of social control. Cr 3

LOS/SBS 301 Group Dynamics
This course gives students an understanding of how people behave in groups and the skills needed by group members to participate effectively in group activities. It provides a theoretical foundation for how groups function, with focus on group process and development; and it discusses how these theories can be applied to a wide range of group settings. This course uses experiential techniques to help students develop critical skills and understanding of group dynamics. Cr 3

LOS/SBS 302 Organizational Behavior
This course examines human behavior in organizations: individual, group, and organizational processes that impact workplace behaviors and organizational life. The focus is on understanding factors that contribute to organizational effectiveness and the major challenges facing organizations today. We will cover topics such as individual and organizational learning, individual values and motivation; interpersonal communication and work team dynamics, leadership and emotional intelligence, power and influence, organizational culture and change. Students will engage in experiential and skill-building activities and apply conceptual frameworks to their real-life work experiences. Cr 3

SBS 303 Abnormal Psychology
This course presents an introduction to the classification, diagnosis, and etiology of what is considered "mental illness." Cultural aspects of "abnormality" will be emphasized, as will integrative models of the causes of mental disorders. This integrative approach considers the complex interplay between biological, psychological, interpersonal, and cultural factors as they contribute to the development and expression of psychological disorders. Cr 3

SBS 304 Food, Culture, and Eating
This course examines cultural beliefs and practices surrounding diet, food, cooking, eating, and nutrition. Students explore how behaviors and attitudes toward food and eating influence and are shaped by culture. Discussion may include food and healing, the social functions of food, food as represented in the media, food production and food politics, the diet industry, and eating disorders. Students gain insight into their own behaviors and attitudes toward food and eating, as well as those of today's global cultures. 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. SBS/HRD 200 recommended. Cr 3
SBS 306 Adolescence  
This course is 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 308/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. Cr 3

SBS 310 Childhood and Society  
This course weaves several broad themes regarding children and childhood in society, including how socio-historical circumstances shape our perceptions of children and childhood as a distinct life stage; how various agents of socialization including family, educational systems, and media shape contemporary childhood socialization; how children are co-constructors of childhood and society; and how the experiences of childhood are shaped by ethnicity, race, class, and gender. Cr 3

SBS 311 Theories of Personality  
This course is an in-depth study of the major theories of personality. It includes consideration of historical developments and cultural differences in the area of personality theory and research. Specific consideration will be given to the relationship of personality with mental and physical health. Cr 3

SBS 312 Crime and Criminal Justice  
This is 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 315 Social Psychology of Disability  
This course will examine some of the social psychological issues associated with disability and the rehabilitation of individuals who have disabilities, with a focus on minimizing existing social, vocational, educational, and attitudinal barriers to individuals rather than on minimizing the impact of clients’ physical/mental differences within a normed environment. It will familiarize students with the points of view and the experiences of people from various social, ethnic, and cultural backgrounds with a wide range of disabilities/abilities, towards enabling students to approach counseling as a means of expanding opportunities for their clients’ access to these opportunities, and empowering their clients to attain their goals. Cr 3

LOS/SBS 316 Diversity in Organizations  
Using historical, socio-economic, and psychological perspectives, students learn about the challenges diverse members of U.S. society, such as women, people of color, people from marginalized classes, and those from other countries have had and continue to face. Students gain an understanding of how the workplace may affect diverse peoples and how others can learn to make the workplace more hospitable. A primary focus of this course is on examining beliefs, behaviors, or unconscious attitudes that perpetuate the oppression and subordination of diverse members of society in the workplace, while also looking at how increased diversity is adding to workplace productivity, creativity, and learning. Readings are drawn from the social sciences and humanities to provide an interdisciplinary approach to the topic. Cr 3

LOS/SBS 329 Research Methods  
This course provides 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 and includes completion of an applied project. Prerequisite: LAC 120. Cr 3

SBS 332 Death, Dying, and Denial  
An interdisciplinary consideration of death and dying that may include biological, historical, and various social science perspectives, this course examines cross-cultural variations in beliefs and practices related to death, care for the dying, and bereavement. It also explores the personal, social, and cultural implications of denying death and refusing to mourn. Cr 3

SBS 334 Spirituality  
Spirituality, variously defined, is a central part of human experience, constituting important levels of consciousness and meaning. This course will investigate the experience and development of spirituality over the life span as depicted in religious, psychological, “New Age,” and imaginative literatures. Cr 3

SBS 335 Legal Issues in Health and Human Services  
This course examines the legal framework underlying the delivery of health and human services with an emphasis on current socio-legal problems including the rights of clients and the responsibilities of workers. Cr 3
SBS/SCI 336 and MPH 400/500 Introduction to Public Health
This course provides an overview of the public health system and examines the purpose, history, organization, approach, functions and determinants of health. The course places special emphasis on current health issues from our daily lives to highlight the relevance of public health. Trends, successes and challenges from a population perspective will be discussed as well as various tools and techniques used to address public health issues. Cr 3

SBS/SCI 337 Introduction to Epidemiology
This seminar course introduces the student to epidemiology as a utility for the establishment and maintenance of public health. In essence, epidemiology involves the observation and statistical analysis of the occurrence of health and disease in human populations. This science informs the practice of preventive health/disease control and the formulation of public health policy. Seminar topics will be drawn from both infectious and chronic disease epidemiology ranging from the historical plagues such as the Black Death to the modern plagues of AIDS, cancer, and obesity. Recommended prerequisites include introductory biology, and statistics. 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 339 Immigration, Ethnicity, and Identity
This course will investigate race and ethnicity and how people acquire and retain their identity. Why do people leave their homes to start new lives in new places? Why do they want to face new or grave challenges? Pilgrims, Jews, Huguenots, and Irish in the past, and Somali and Syrians, today, are but a few peoples who have done so. Through historical and contemporary readings and films, oral histories and personal interviews, the course examines the challenges immigrants face, as they attempt to assimilate within the U.S. while trying to maintain their native languages, traditions, cultures and communities. Cr 3

SBS 340 Language Acquisition and Literacy Development
This course provides students with opportunities to apply knowledge of fundamental principles and means of investigation used in the study and explanation of language acquisition and literacy development. It plays a foundational role in fostering students' understanding of literacy, which is key to their development as professionals charged with enhancing children's literacy development. Cr 3

SBS 341 The Family
This course is a contemporary, interdisciplinary approach to the study of the family that includes an examination of family structures, familial relationships, and the impact of historical change on these structures and relationships. 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. Consideration will be given to the role of society and public policy in influencing our thinking and behavior concerning substance use and abuse. Cr 3

SBS 344 Violence: Causes and Control
This course studies violence and the possibilities of living peacefully as explored in psychological and sociological works and in writings on anthropology, social policy, and religion. The course reviews the causes of violent and aggressive behaviors and specific approaches to the prevention and control of these behaviors. Cr 3

SBS 345* Diversity: Many Voices (DIV)
This course examines the impact of various markers of diversity including race, class, and gender on individual and social experiences in the United States. Students will analyze issues of diversity concerning inequality, power, privilege, and social justice. Students will explore their own place in a diverse society and develop opportunities for building strength through diversity in organizations and communities. *This course takes the place of the former SBS 345 Race, Class and Gender and also meets the USM Core Diversity Requirement. Cr 3

SBS 346 Introduction to Social Services
This course examines the profession of social work from both historical and contemporary perspectives. Students will explore specialty areas in social work such as mental health and disability, crime and violence, and family work. Career options in the social work field will be explored. Cr 3

SBS 347 Youth, Community, and Higher Education
This interdisciplinary, community-based elective provides students with the opportunity to work with diverse vulnerable youth in hopes of promoting higher education and encouraging resiliency. The course will be conducted through weekly sessions which will include both a discussion/supervision piece and group program activity piece. Students will take on roles as mentors, allies, and advocates for youth, and as organizers and developers for the group of youth as a whole as well as for the local community. Students will learn to work with adolescents, families, and communities in a comprehensive and integrated manner. Prerequisites: PSY 101 and 102, and permission of instructor. Cr Var

SBS 348 Responding to Mental Health Crisis in the Community
This course explores history and models of mental health focused on the ability of individuals with mental illness to function successfully in the community. The course will assist students in developing an understanding of crisis intervention perspectives, including knowledge of the following: risk factors and precipitating events; available emergency community resources and associated obstacles to access to these services; effects of psychological trauma as it pertains to the impact on the community; what it means to be culturally competent; and how we work with various vulnerable populations within a community setting. Cr 3

**SBS 349 Trauma and Narrative**

This course examines the medical, political, and cultural history of the concept of trauma, focusing on how trauma has become a core concern in both contemporary clinical psychology and literary criticism. We consider models for conceptualizing responses to traumatic experiences. Topics include the diagnostic criteria of Post-Traumatic Stress Disorder, recommended treatment approaches, risk and protective factors. Students explore “narrative” vs. “traumatic” memories and carefully examine a number of literary texts and films to analyze the characteristics of representations of traumatic memory. The idea that fashioning a narrative of traumatic experience is essential to trauma therapy and to the healing effects of trauma literature, will also be explored. Prerequisites: Completion of a 100-level College Writing course (with grade of at least a C), SOC 100, PSY 101 & 102, and ANT 101. Cr 3

**SBS 350 Psychosocial Disorders in Childhood and Adolescence**

This course includes readings and discussion of the etiology and manifestation of psychosocial disorders in childhood and adolescence. Topic areas, including approaches to intervention, will be considered from developmental, psychological and sociological perspectives. Special focus includes the role of the family and other collateral adults to support a variety of treatment approaches. Cr 3

**SBS/SCI 351 Emerging Infectious Diseases: From AIDS to Zika**

Due to unprecedented emergence rates, Emerging Infectious Diseases (EIDs) have taken center stage in our society over this past decade. These diseases include SARS, MERS, Ebola, chikungunya, avian flu, AIDS and most recently, Zika. The emergence of these diseases is multifactorial in nature. Our approach in confronting these diseases needs to be dynamic, systemic, and critical, and must include the collaboration of basic scientists, clinicians, social scientists, and epidemiologists. Course content will range from molecular scientific phenomena to public health and social policy issues encountered by individuals, families, and society. This course is particularly relevant for NAS, SBS, and Public Health Students. Offered Fall only. Cr 3

**SBS 358 Representations of Motherhood**

This interdisciplinary course examines the ways in which motherhood is represented in various cultural forms (including film, literature, and political rhetoric) and from within different historical and cultural contexts. Contemporary psychological theories will be considered in terms of how they are used to prescribe normative demands on women and mothers and also how they attribute various powers to mothers that then contribute to the construction of particular social policies and practices. Prerequisite: LAC 110 or other College Writing course. Cr 3

**SBS 361 Psychology and Sociology of Gender**

This course approaches the study of gender from a feminist perspective. This involves a critical examination of cultural assumptions regarding gender and also of the methodological biases within traditional social science research. In addition, students will examine intersectional systems of privilege based on race, class, and gender. Cr 3

**SBS 362 Understanding Regulation: Applying Scissors to Red Tape**

Every industry and profession in the United States is caught in a vast net of regulations; federal, state, and local governments all have policies that influence and determine the infrastructure of organizations and how they function. From the Food & Drug Administration through Equal Opportunity laws, local ordinances, and professional organization standards and requirements, this course will examine how and why regulations arise; how to research and decipher their essential elements; how to determine what regulations apply to product, idea, or profession (PIP) and how to think about and manage risks associated with regulations. Cr 3

**SBS 364 Introduction to Expressive Therapies**

This course introduces students to the basic principles, theories, and varied professional applications of the expressive therapies, including modalities of art, drama, movement, music, poetry and play. Exposure to and experience with a variety of experiential processes is a major feature of the course. Exploration of the value of these methods in transcending barriers of age, mental health, physical health, learning styles and needs, language ability and cultural norms is also woven into the course. Cr 3

**SBS 365 Psychological Language of Dreams and Fairytales**

This course explores psychological approaches to understanding the language of dreams and fairytales. Students consider how works of imaginative literature and dreams inform the theories of Freud and Jung and also how their theories, in turn, have shaped contemporary approaches to understanding of images and metaphors. We then culturally situate this psychological approach by comparing it with cross-cultural and literary approaches. Cr 3

**SBS 366 Transforming Words: Poetry and Psychologies of Change**

This course examines the interrelationships between poetry and psychology, with a focus on transformations of meaning in words and lives. Topics will include the varying functions of poetry over the life span, poets' reflections on how and why they write, poetry as political witness and community catalyst, therapeutic uses of poetry, and the distinctive qualities of "poetic" language. Students have the option of pursuing community-based projects involving poetry. This course has been approved by the State Department of Education for content area in secondary English. Cr 3
SBS 367 Healthy Learners Project: Social and Emotional Learning
The Healthy Learners Project provides training in individual, non-directive play intervention to support the emotional and educational achievement of at-risk children in their first three years of elementary education. This service-learning course consists of training, direct individual work with children, and scholarship. Supervision of the student's work is provided both in local elementary schools and in class. Prerequisite: permission of instructor. Cr 3

SBS 375 Infant Mental Health and Attachment: This course focuses on the critical importance of attachment in early childhood and the emotional development of young children as the basis of forming relationships throughout one's life. New developments in neuroscience, the impact of stress on developing brain architecture and adverse childhood experiences will be reviewed. Positive and negative influences on both attachment and emotional development will be discussed as well as implications for attachment relationships throughout the lifespan. The concepts of infant mental health as relational, reflective, and interdisciplinary will be presented as well as skills and strategies for supporting the growing field of infant mental health. Recommended: PSY 102, HRD/SBS 200, a course in Child Development, or SBS 311. Cr 3

LOS/SBS 381 Introduction to Globalization
This course examines the economic, political, social, and cultural aspects of globalization from an interdisciplinary perspective. The purpose is to get a sense of clarity about what globalization is, how it is affecting people around the world, and why there is an increasingly robust resistance to it on the grassroots level. We will also discuss how to empower ourselves while being socially responsible in this rapidly changing world. Course format includes discussion, case study, and student presentation on research projects. Recommended: SOC 100, ANT 101. Cr 3

SBS 390 Brain and Behavior
This course is a 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

ECE/LAE/SBS 391 Mathematics in Early Childhood Education
This course examines key principles for effective teaching of early mathematics and what teachers need to know to guide and challenge a child’s understanding so that all young children receive a high-quality education in mathematics, as advocated by the National Association for the Education of Young Children (NAEYC). Additionally, the types of opportunities young children have to participate in mathematical exploration of the world around them will be examined. This course builds off our natural ability to develop numeracy and the child’s interest in doing so and connects it with the development of a comprehensive mathematics program in early childhood education. Instruction in hands-on exploration is guided by key principles of mathematical thinking including number sense, geometry, patterning, and measurement. Students learn how to create learning environments that support cultural and linguistic diversity and gender-fair practices. The course addresses standards from the NAEYC developmentally appropriate practices (DAP), the National Council for the Teaching of Mathematics (NCTM), the State of Maine Early Childhood Learning Development Standards for Mathematics, along with the Common Core State Standards (CCSS) for Mathematics. Cr 3

ECE/LAE/SBS 392 Science in Early Childhood Education
This course examines key principles for effective teaching of science in early childhood education. The course will focus on the ability of young children to engage in scientific practices as well as the ways educators can guide children in the learning of scientific thinking and principles in biological, physical, chemical, and applied sciences. Additionally, the types of opportunities young children have to participate in science investigations will be explored with a focus on creating learning environments that are supportive of cultural and linguistic diversity and gender-fair practices. This course will connect children’s innate curiosity about their world with the development of a comprehensive science program in early childhood education guided by the National Association for the Education of Young Children’s (NAEYC) developmentally appropriate practices (DAP). The course addresses standards from the National Science Teachers Association (NSTA), the Next Generation Science Standards (NGSS), and the State of Maine Science Learning Results. Cr 3

ECE/LAE/SBS 393 Exceptionality in Early Childhood Education
This course offers an overview of the philosophy and methods of educating young children with disabilities in early childhood settings, with particular attention to the needs, services, and creation of inclusive environments for these children. Students will gain an understanding of the history of early childhood special education and of the policy and legal mandates for young students with disabilities and their families. This includes knowledge of the principles and practices of universal design, Response to Intervention, differentiated instruction, and other best practices in early childhood special education. A focus is on the teacher's role in the creation of classroom environments that support cultural and linguistic diversity and gender-fair practices that assist access to the general curriculum for students with disabilities. Strategies for working with families, assistive technology, and the transition from pre-school to school-aged services will also be covered. Cr 3

SBS 398 Independent Study
Prerequisite: junior standing and permission of instructor. Cr 3

SBS 399 Special Topics
Various courses. Cr 3

SBS 411 Counseling and Psychotherapy
A study of the conceptual foundations, fundamental characteristics, and ethical principles involved in the process of psychological counseling.
Alternative models (e.g., individual, group, family) of therapy will be explored in relation to theories of personality development and functioning. Special focus will also be placed on counseling approaches in community mental health areas such as trauma and crisis intervention. Prerequisite: SBS 311. Cr 3

**SBS 420/LOS 599 Mindfulness**
Mindfulness is about paying attention without judgment to what is being presented to us in our lives moment by moment right here, right now and then responding to this moment from a place of balance/center rather than reacting from old patterns. This course studies Mindfulness using practices based on the Kabat-Zinn Mindfulness-based Stress Reduction Program and practices based on the work of Professor Nancy Hathaway. Students will learn to utilize Mindfulness-based Stress Reduction practices for cognitive and emotional regulation, and explore ways to integrate Mindfulness into work, family, health, and relationships, particularly into Teaching, Nursing, Social Work, Counseling, Public Safety, and the Healthcare Professions. Cr 3

**SBS 430 Applied Social Policy**
A review of contemporary social policy alternatives and an examination of social policy making processes at both the macro- and micro-levels. 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. Prerequisites: Junior standing and either LAC 200 or LAC 370 or permission of the instructor. Cr 3

**SBS 435 Children, Policy, and Law**
This course explores the interface of legal policy related issues and problems in childhood. The relationship among legal, public policy, and psychological concepts will be framed within family relationships, legal decision making, and the judicial and legislative allocation of power between parents and the state. Topics will include the state of knowledge about outcomes for children's emotional health and development related to the risks and protections that legal intervention brings. Cr 3

**LOS/SBS 436 Risk, Public Policy, and Society**
This course considers the variety of ways in which risks, especially risks to the environment and to health, are measured, perceived, communicated, and acted upon in our society. Perspectives will be drawn from health fields, natural sciences, and political science, as well as from the social sciences. Cr 3

**SBS 450 Assessment of Individual Differences in Children**
A survey of methods used to evaluate the developing child for abilities and disabilities. There will be an emphasis on understanding the interrelatedness of social, psychological, educational, physical-developmental, and health related assessments, as well as the cultural meaning of individual and group assessments. Cr 3

**LOS/SBS 470 Study Abroad**
The goal of this course is to provide an experiential learning opportunity for students to increase their global awareness. Through a variety of readings, overseas traveling, site experiences, and reflection exercise, students will examine a diversity of sociocultural issues in a foreign environment. Prerequisite: Instructor permission. Cr 3

### Course Descriptions

Use the links below to see courses offered by individual programs or by the college. Schedule and registration information can be found [here](#).

- Leadership and Organizational Studies Courses
- Natural and Applied Sciences Courses
- Social and Behavioral Sciences Courses
- Occupational Therapy Courses
- Nursing Courses
- LAC Teacher Education Courses
- LAC Courses
  - LAC Learning Assistance and Career Development Courses
  - LAC Courses Satisfying USM Core Requirements
  - Other LAC General Courses

#### Lewiston-Auburn College Courses ([back to top](#))

The following courses are offered by Lewiston-Auburn College in addition to those within specific programs linked above.

#### Lewiston-Auburn College: Learning Assistance and Career Development Courses ([back to top](#))

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USM Undergraduate Academic Catalog 2017-18
The University's learning assistance program includes developmental coursework in mathematics, learning strategy courses, and the Learning (tutoring) Centers. The developmental course (MAT 9) provides students with instruction to help them achieve college level readiness in mathematics. The Learning Center and the Writing Center at Lewiston Auburn College offers tutoring in writing, science, and mathematics. Programs for English for Speakers of Other Languages are offered on USM's Portland campus. The Academic Self-Management course (LAC 188 - College and Career Success) offers learning strategies to assist students with study skills and the transition into higher education.

**LAC 112 Microsoft Excel**
This course uses a problem-solving approach to electronic spreadsheets. It satisfies the LOS major's requirement and should follow the LAC 150 introductory course. Students will learn advanced data analysis, formulas, and create graphs to interpret the data. This course should be completed prior to taking a financial management, economics, or budgeting course. Cr 1

**LAC 114 PowerPoint**
This computer program allows users an electronic means of giving presentations to groups of people. Students will learn how to create electronic slides using written, graphic, and sound materials. The slides can then be formatted in several different ways: 35 mm slides, overhead transparencies, and handouts. Students who have to give presentations to classes or who are considering careers in teaching, marketing, or public relations should consider this course. Cr 1

**LAC 188 College & Career Success**
The focus of the course is on self, learning and career exploration and the critical role of personal decision making in identifying and pursuing strengths, interests, and areas for growth. Students will learn to understand their own decision making process and the factors that influence that process. Course activities will include assessments of self, assessments of interest, and explorations of academic life and career. This course provides students with the opportunity and tools for taking enhanced control of their academic learning process. Throughout the course, students will be introduced to resources and support systems to help maximize the University experience and create an intentional career path. This is a 3-credit course used as elective credit toward graduation. Cr 3

**LAC 200 Community Learning Groups: Planning for Academic Success**
This specially designed course for TRIO Student Support Services participants serves as the first module in a series which will enhance the learning experience at USM and prepare the student to focus on personal and academic goals. Topics will vary, but will include self-assessments for career and learning, study strategies, making the most of academic advising, taking full advantage of university offerings, financial literacy, leadership and diversity development, and planning for careers or graduate school. The instructor's role will be to serve as advisor and guide, and in addition, there will be guest speaker experts in some classes. Students will normally take this course in their first semester of SSS participation as it is an important anchor to the program. Cr 1

**LAC 269 Exploring Careers, Choosing Life Roles**
In this mid-level course in the career development series, students relate self-knowledge to career and life roles, with an emphasis on gaining and managing career information; learning various career and life decision-making strategies; and communicating formative academic, co-curricular, and professional experiences in such formats as accomplishment statements and informal interviews. Prerequisite: None. Offered Fall, Spring, Summer. Cr 1.5

**LAC 336 Intermediate/Advanced Academic Writing for Non-Native English Speakers**
This course has been specifically designed for non-native speakers of English who need to produce more natural, sophisticated, and accurate writing for academic purposes. By reviewing approaches to and processes of academic reading and writing, students will hone their abilities to understand and produce writing in a variety of academic forms. This course is a higher level writing course and assumes substantial background in English as a second language. This course may be required as part of an academic plan. This course begins two weeks into the semester and meets for two hours twice a week. Prerequisite: College Writing ENG 100 or LAC 110. Cr 3

**LAC 413 Job Search Skills for the 21st Century**
In this final course in the career development series, students assume active agency in career planning through learning how to market themselves to prospective employers. They learn to create and use the tools needed for career placement, such as cover letters, resumes, and interviews. Prerequisite: LAC 269. Offered Fall, Spring, Summer. Cr 1.5

**LAC 447 Internship**
This online course provides students the opportunity and tools for taking enhanced control of their academic learning process. Throughout the course, students will learn how to create electronic slides using written, graphic, and sound materials. The slides can then be formatted in several different ways: 35 mm slides, overhead transparencies, and handouts. Students who have to give presentations to classes or who are considering careers in teaching, marketing, or public relations should consider this course. Cr 1

**MAT 9 Developmental Mathematics**
A review of fundamental topics of arithmetic needed for a study of algebra. This course will cover the following topics: addition, subtraction, multiplication, and division of fractions; use of decimals and percent; estimation; addition, subtraction, multiplication, and division of real numbers; exponents; order of arithmetic operations; distributive property; combining like terms; substitution to evaluate expressions and formulas; grouping symbols; addition and multiplication principle; formulas; sets; solving equations with fractions; translating English phrases into algebraic expressions; and solving word problems using geometric formulas. Successful completion of the course and the course exit exam at
a C level (75%) or higher is required. Credit earned in MAT 009 does not apply or accumulate toward any degree program nor contribute to the GPA at the University of Southern Maine. After successful completion of MAT 9, students must then complete MAT 101B (College Readiness Mathematics) to fully meet college readiness in mathematics or place out of the math college readiness courses via a retake of the math placement exam. Cr 3

**Lewiston-Auburn College Courses Satisfying USM Core Requirements** *(back to top)*

Students matriculated in a major offered at Lewiston-Auburn College for Fall 2015 and beyond will complete the USM Core curriculum requirements. Please see the Core Curriculum section of the current catalog for these requirements.

**EYE 123/SBS 199 Our Brains at Play (EYE)**
This course will explore how play and interpersonal experiences forge key connections in the brain. By examining "our brains at play" student devote equal time to the fields of interpersonal neurobiology and play studies. The course will build communicative competence through experiential and cooperative learning, community engagement opportunities, class discussion on topics of ethical and social importance and oral and written assignments. Several times throughout the course, students will utilize a modification of the Lego® Serious Play® method, a kinesthetic and storytelling methodology for understanding how and why the interpersonal neurobiology of play contributes to the well-being of individuals, relationships, and society. Cr 3

**LAC 105 Basic Photography (CE)**
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

**LAC 110 College Writing: Language and Literacies (CW)**
This first-tier writing instruction course introduces students to one or more themes of the Core curriculum. It emphasizes the connections between reading and writing, and students learn how thinking and the language that conveys it develop and change through the process of drafting, revising, editing, and proofreading. The course introduces students to the conventions of expository academic writing and links to co-curricular activities of the Core. (Note that some students are also required to concurrently take the 1-credit companion course, LAC 111) This course has been approved by the State Department of Education for content area in secondary English. Offered Fall, Spring, Summer. Cr 3

**LAC 120 Statistics for Informed Decision Making (QR)**
This course introduces and applies quantitative analyses to address real world questions. It applies descriptive statistics, sampling and significance testing, correlation, and regression analysis to issues related to the four themes of the Common Core. The course provides the opportunity to interpret and analyze statistical decision making, and identifies data misconceptions and misuses. Prerequisite: math proficiency. Offered Fall, Spring, Summer. Cr 3

**LAC 123 College and Community I (EYE & DIV)**
This course is required of all entering students with less than 24 credit hours. The course introduces students to the promise and possibilities of USM LAC's interdisciplinary, writing-intensive, and student-centered culture. Students will consider the relevance the four themes of the Lewiston Common Core (justice, sustainability, democracy and difference) have to their future lives. Students link their own "stories" -- what has brought them to this point in their personal, academic, and professional lives -- with the habits of mind needed for success in college, career, and global citizenship. Cr 3

**LAC 210 Creative Critical Inquiry (CI)**
This writing instruction course introduces students to criteria for identifying and constructing well-reasoned arguments, fosters the discovery and the use of students' critical/analytical voice in their writing, and develops skills for incorporating, interpreting and integrating the views of others. It provides the opportunity to refine critical thinking abilities by analyzing everyday life experience, including how culture shapes our sense of reality and ourselves. The course highlights the importance of generating good questions and tolerating ambiguity when seeking to understand complex issues. Prerequisite: College Writing. Offered Fall, Spring, Summer. Cr 4

In this course, students consider the convergence of cultures, events, and ideas that led to the founding of the United States as a republic up to 1877. The course explores the basic structure of the U.S. system of government, the primary political philosophies that undergird it, and past efforts made to remedy injustices that ran counter to the ideals of democracy. This course has been approved by the State Department of Education for content area in secondary Social Studies. Offered Fall. Cr 3

**LAC 250 Thinking about the Arts, Thinking through the Arts (CE)**
This course explores the tools and strategies important in the interpretation of literature and the arts and encourages an appreciation of the role of literature and the arts in social, political, and cultural life. It promotes an understanding of and an appreciation for the creative expression of shared cultural beliefs in various historical periods of cultures around the world and examines literature and the arts as potential critiques of culture. Offered Fall, Spring, Summer. Cr 3

**LAC 325 World History and Geography I (SCA)**
This is the first in a series of two courses that are designed to help students develop an understanding of and an appreciation for world history and geography. The course's goal is to provide students with a humanistic background from which to better comprehend global complexities. This course will cover the period from prehistory to the age of modern expansion, from about 50,000 to 500 years ago. Prerequisite: Only students with more than 45 credits are permitted to take this course. Cr 3

**LAC 326 World History and Geography II (SCA)**
This is the second in a series of two courses that are designed to help students become more knowledgeable participants in today's rapidly changing world. Its goal is to make links between global history and modern world situations, as well as find the locations on a map. In other words, it is a primer in "global citizenship." This course covers the period from the Age of Modern Exploration (ca. 1500) to the present. Prerequisite: Only students with more than 45 credits are permitted to take this course. Cr 3

**LAC/SBS 340 Language Acquisition and Literacy Development (SCA)**
This course provides students with opportunities to apply knowledge of fundamental principles and means of investigation used in the study and explanation of language acquisition and literacy development. It plays a foundational role in fostering students' understanding of literacy, which is key to their development as professionals charged with fostering children's literacy development. Cr 3

**LAC 370 Toward a Global Ethics (EISRC)**
This writing instruction course assists students in articulating and assessing their own values. It examines the range of ethical theories and positions and explores the influence of particular cultural ideologies on ethical beliefs. The course considers the ethical principles implied by democracy, sustainability, justice, and difference. It examines ethical issues and dilemmas faced by individuals, organizations, and nations while exploring personal and collective decision-making processes in a global context. Core prerequisites: any three of Creative Expression, Cultural Interpretation, Science Exploration, Social-Cultural Analysis. Offered Fall, Spring, Summer. Cr 4

**LAC 480 Senior Seminar (Capstone)**
Seminars are organized around one of four interdisciplinary themes: Justice, Sustainability, Democracy, or Difference. As a capstone experience, this course is intended to give students the opportunity to pursue independent scholarly research on a topic of their choosing within the given theme, and to integrate their learning, interests, and questions from core courses with those in their degree program. Prerequisite: College Writing and LAC 370. Offered every semester. Cr 3

**LOS 310 Science, Technology, and Society (SCA)**
This course examines the history of science and technology, and the social changes related to them. It examines the impact of science and technology on ethical and religious beliefs, social institutions such as education, family, and work, and on larger sociopolitical entities and relations. The course also explores the effects of science and technology on natural and human-made environments. Cr 3

**SBS/HRD 200 Multicultural Human Development (SCA)**
This course introduces developmental theory and research that encompasses the entire lifespan. Emphasis will be on prenatal development through adolescence, with an overview of adult development. A multi-disciplinary and multicultural view of human development will be taken by examining theories from a socio-cultural context and in consideration of change as well as stability throughout the life cycle. The interaction of hereditary, environmental, and socio-cultural factors will be considered in studying physical, cognitive, and psychosocial development. Prerequisites: Second semester freshmen or above; must have completed College Writing and an EYE course. Cr 3

**SBS 300 Deviance and Social Control (DIV)**
This course provides a forum to examine deviance and social control from sociological, psychological, ecological, environmental and cross-cultural perspectives, examining contested definitions of deviance, and different theories about deviance and social control. The course investigates the interrelationships of culture, power, identity formation and social change. Portrayals of deviance and social control in literature, film and popular culture will also be explored. Students challenge their critical thinking skills and will achieve a higher level of understanding about the relative notion of deviance, including how it relates to population size, and the nature(s) and type(s) of social control. Cr 3

**SBS 345* Diversity: Many Voices (DIV)**
This course examines the impact of various markers of diversity including race, class, and gender on individual and social experiences in the United States. Students will analyze issues of diversity concerning inequality, power, privilege, and social justice. Students will explore their own place in a diverse society and develop opportunities for building strength through diversity in organizations and communities. *This course takes the place of the former SBS 345 Race, Class and Gender and also meets the USM Core Diversity Requirement. Cr 3

**SCI 130 The Biology of Human Health with Lab (SE)**
This course introduces basic concepts of biology and explores how these concepts relate to human health. It also explores natural scientific methods of inquiry and applies these methods to complex issues involving the creation and maintenance of human health. Further, the course explores the importance of societal factors in health maintenance. Prerequisite: QR. Offered Fall, Spring, Summer. Cr 4

**SCI 170 Human Anatomy and Physiology I (SE)**
This is the first course in a two-semester sequence in human anatomy and physiology. It introduces basic principles of physiology and anatomy through chemistry, cellular structure and function, genetics, and embryology. This course discusses several physiologic systems including the muscular, skeletal, nervous and integumentary systems. Prerequisites: students should have an understanding of basic biology and chemistry from
high school courses or GED. SCI 170 must be taken concurrently with SCI 171. Cr 3

SCI 171 Practical Human Anatomy and Physiology I (SE)
Laboratory experiences illustrating topics introduced in SCI 170. Must be taken concurrently with SCI 170. Cr 1.5

SCI 230 Environmental Science, Policy, and Sustainability with Lab (SE)
This course presents a multidisciplinary survey of the scientific principles underlying energy utilization, nutrient cycles, global warming, population, and natural resource policy and management. The lectures will be comprised of Socratic interactions and group discussions relating regional, national, and global components that encompass ecology, economics, politics, and social endeavors. This course includes a laboratory involving field and lab work and service learning efforts. Prerequisite: QR. Offered Spring. Cr 4

Other Lewiston-Auburn College General Courses (back to top)

LAC 230 Digital Photography
Working with digital cameras, students will learn to see photographically in color. They will gain a better understanding of color relationships using color as design elements and the overall artistic and aesthetic uses of color photography. Students will learn controls of their camera's software. Adobe Photoshop software will be the primary tool used for image control and manipulation. Cr 3

LAC 304 Writing Children's Literature: How to Craft Compelling Stories
An exploration of how real life stories, details, characters, and voices combine with images to create compelling children's stories. This course includes lecture, class discussion and writing workshops. Cr 3

LAC 335 Working with Writers
This one-credit course provides training for Writing Assistants who work at the LAC Writing Center. Topics covered include basic composition theory, the Writing Center as a workplace, tutoring in digital formats, helping writers across the curriculum, and communication skills. The course prepares Writing Assistants for CRLA (College Reading and Learning Association) certification. The course may be taken three times (to align with the three levels of CRLA certification). Permission of instructor required. Offered Fall and Spring. Cr 1

LAC 336 Intermediate/Advanced Academic Writing for Non-Native Speakers
This course has been specifically designed for non-native speakers of English who need to produce more natural, sophisticated, and accurate writing for academic purposes. By reviewing approaches to and processes of academic reading and writing, students will hone their abilities to understand and produce writing in a variety of academic forms. This course is a higher level writing course and assumes substantial background in English as a second language. This course may be required as part of an academic plan. Prerequisite: College Writing ENG 100 or LAC 110. Cr 4

LAC 338 Intermediate Writing Theory and Practice
This one-credit practicum provides an intermediate level examination of writing center theory and practice. It is designed to provide content and technical training for experienced Writing Center tutors. Class meetings also provide a venue for group discussion of tutoring experiences. Upon completion of the course, students are eligible for Level 3 College Reading and Language Association (CRLA) certification. Permission of instructor required. Meets 1 hour a week. May be taken three times. Cr 1
CMHS Overview

Academic Leadership: Interim Dean: Joanne Williams; Director, Muskie School of Public Service: Firoozak Pavri; Associate Dean, School of Education and Human Development: Mark Steege; Associate Dean, School of Business: Jane Kuenz; Director, School of Social Work: Jeannette Andonian

The College of Management and Human Service brings together dedicated faculty and staff from four professional schools at the University of Southern Maine: the School of Business, School of Education and Human Development, School of Social Work, and the Muskie School of Public Service, including more than 120 research staff in the Muskie School’s Catherine E. Cutler Institute for Health and Social Policy and additional research centers throughout the college. Through their dedicated teaching, applied research, and engagement within the community, our faculty offer students unique opportunities to engage in socially relevant studies that address today’s most pressing issues in education, public policy, management, and social services.

The college offers a wealth of both graduate and undergraduate degree programs, as well as teacher education, professional development tracks, and certificate options. Unique to the college is cross-cutting curricula that allow students to engage in coursework from more than one school or program, an approach that best prepares students for today’s challenging and complex work environment. Additionally, partnerships with area businesses, organizations, and agencies create opportunities for students to gain knowledge and skills through experiential learning, preparing them for leadership roles within their respective fields.

Schools within the College

- The Muskie School of Public Service
- The School of Business
- The School of Education and Human Development
- The School of Social Work

Undergraduate Programs

The College of Management and Human Service offers the following undergraduate degree programs and pathway programs:

- Bachelor of Arts (BA) in Geography-Anthropology
- Bachelor of Arts (BA) in Social Work
- Bachelor of Arts (BA) in Tourism and Hospitality
- Bachelor of Science (BS) in Business Administration with majors in accounting, finance, general management, marketing, and sport management
- Bachelor of Science (BS) in Business Administration with majors in accounting, finance, general management, marketing, and sport management
- Bachelor of Science (BS) in Business Administration with majors in accounting, finance, general management, marketing, and sport management
- Undergraduate-Graduate 4+1 Accelerated Pathway in Geography-Anthropology, and Policy, Planning and Management
- Teacher Education (elementary and secondary)

Graduate Programs

The College of Management and Human Service offers the following graduate degree programs:

- Master of Business Administration (MBA)
- Master of Science (MS) in Adult and Higher Education
- Master of Science (MS) in Counseling
- Master of Science (MS) in Educational Psychology
- Master of Science (MS) in Special Education
- Master of Science in Education (MSEd) in Educational Leadership
- Master of Science in Education (MSEd) in Literacy Education
- Master of Science in Education (MSEd) in Montessori Early Childhood Education
- Master of Science in Education (MSEd) in Professional Educator
- Master of Science in Education (MSEd) in Teaching and Learning
- Master of Science in Education (MSEd) in TESOL
- Master of Social Work (MSW)
- Master of Policy, Planning, and Management (MPPM)
- Master of Public Health (MPH)
- Doctor of Philosophy (PhD) in Public Policy
Doctor of Psychology (PsyD) in School Psychology

The college also offers certificates of graduate study and certificates of advanced study in several areas.

Admission and Academic Policies and Requirements

Admission and academic deadlines, policies, and requirements reside with the programs that are housed within the four schools of the College of Management and Human Service. Please see individual programs listed under each school section for these policies and requirements.

Scholarships and Assistantships

The schools within the College of Management and Human Service offer a limited number of scholarships and/or graduate assistantships to help fund a student’s education. Please see the individual schools or programs for more information.

Accreditation

Our programs are characterized by quality and integrity. They meet the highest standards set by professional accreditation bodies. The College of Management and Human Service has specific degree programs that are accredited by the following agencies or bodies:

- Association to Advance Collegiate Schools of Business (AACSB International)
- Commission on Accreditation of Healthcare Management Education (CAHME)
- Council for Accreditation of Counseling and Related Education Programs (CACREP)
- Council for the Accreditation of Educator Preparation (CAEP)
- Council on Rehabilitation Education (CORE)
- Council on Social Work Education (CSWE)
- National Association of School Psychologists (NASP)

Professional Licensure and Certification Notice

Professional licensure and certification is regulated by various State of Maine credentialing offices. Students who are pursuing degrees leading to application for professional licensure or certification, and/or who will be participating in clinical placements, internships, or practica through their USM program should be aware that their host facility may require a criminal background check, finger printing, or drug screening. In such situations, each student is responsible for obtaining and paying for the background check or other screening process and for delivering required documentation to the facility. Although the university will make reasonable efforts to place admitted students in field experiences and internships, it will be up to the host facility to determine whether a student will be allowed to work at that facility. Students should further be aware that a criminal record may jeopardize licensure by the state certification body. Students may consult the certification body corresponding to their intended occupation for more details. Successful completion of a program of study at USM does not guarantee licensure, certification, or employment in the relevant occupation.
Business Overview

Associate Dean: Jane Kuenz
Director for Academic Administration: Alice Cash;
Coordinator of Career Services and Internships: Melissa Burns
Chair (Accounting and Finance): John Sanders
Chair (Business Administration: Marketing, Sport Management, and General Management): Matthew Dean
MBA Director: Robert Heiser
Professors: Manny, Smoluk, Voyer; Associate Professors: Chinn, Dean, Heiser, Kerr, Kohli, Parker, Sanders, Suleiman, Williams; Assistant Professors: Belik, Xu; Lecturers: Bilodeau, Dunbar, Griffin, Ladd, Nelson, Palin

Mission Statement

We prepare and inspire current and future leaders, and stimulate economic growth, by providing quality learning opportunities, valuable research, and professional service, all in partnership with the business community.

Programs

Bachelor of Science in Business Administration (BSBA) with majors in:

- accounting
- finance
- marketing
- sport management*
- general management with a track in:
  - entrepreneurship and small business management*
  - international business
  - risk management and insurance
  - sustainable business*
  - generalist (advanced study across multiple fields of business; available online)

*Note: required courses in the sport management major, the sustainable business track, and the entrepreneurship track may not be offered during the evening (5:30 p.m. or later).

The undergraduate program is designed to develop the student's abilities to assume the responsibilities of general and financial management, and to cope successfully with the changing problems of managers in the years ahead. Entering students begin by acquiring broad preparation in the arts and sciences as a foundation for the study of business. All students also complete the business core, which is a series of courses covering major functional areas common to business operations. Lastly, students acquire a deeper knowledge in their selected major.

Double majors are possible as long as no more than one course (3 credit hours) applied toward one major is applied toward the second major. Under no circumstances can more than one course (3 credit hours) be double-counted for two program options (e.g., major, minor, track, or concentration) within the School of Business with the exception that non-accounting majors may pursue a minor in accounting which has a 6 credit overlap with the Business Core. Students may also apply to the accelerated 4+1 undergraduate-graduate programs in Business Administration to complete both undergraduate and graduate degrees in about five years.

Undergraduate minors in (No student may pursue more than one minor offered by the School of Business.):

- accounting
- business administration (non majors only)
- event management
- finance
- financial planning
- marketing
- pre-MBA
- information management
- innovation, creativity, and entrepreneurship
- risk management and insurance
Certificate programs of undergraduate study in:

- accounting
- event management
- finance
- financial planning
- risk management and insurance

Accelerated Undergraduate-Graduate Pathways in Business Administration:

- Bachelor's degree and MBA
- Engineering and MBA
- Technology Management and MBA

Master of Science in Business Administration (MBA) with optional concentrations in:

- accounting
- business analytics
- engineering
- finance
- health management and policy
- sustainable business

The master of business administration program is designed for students who wish to advance their careers and contribute to their companies. Partnering with the business community, the program emphasizes the skills needed to inform and guide organizational change. Students in the program develop cross-functional business solutions to "real world" problems, and cultivate a broad critical perspective, interpersonal skills, and the analytical tools of management. The program also emphasizes an appreciation of the international and ethical contexts of professional practice. The master of business administration program allows students to pursue more than one optional concentration. Each concentration consists of three MBA courses. Students are encouraged to apply to the program regardless of their undergraduate academic specialization.

Certificate of Graduate Study:

- business analytics

Accreditation

The School of Business is accredited by AACSB International—The Association to Advance Collegiate Schools of Business. AACSB International assures quality and promotes excellence and continuous improvement in undergraduate and graduate education for business administration and accounting.

Undergraduate Course Enrollment Policies

Enrollment Restriction

No undergraduate student, unless accepted into a major in the School of Business, is allowed to take more than 30 credit hours in business courses under any circumstances. The undergraduate business program has the responsibility of monitoring the implementation of this requirement. No student may pursue more than one minor offered by the School of Business.

Students who are not majoring within the School, having fewer than 28 credit hours in business courses, may enroll in 300-level or higher courses provided they meet one of the following criteria:

- They have declared a major that requires the course.
- They have been admitted to a School of Business minor.
- They are admitted to a School of Business certificate program.
- The course fulfills a requirement for the USM general education.
- They have approval from the Dean.

Any School of Business major or minor who has enrolled in an ACC, FIN, BUS, or RMI course more than twice must, before continuing in that course, complete and have approved by the Department chair, a course condition form (available from the School of Business office). Failure to do so may result in course credit disqualification. A Federal Financial Aid policy states that if a student passes a course - according to the catalog-definition of "pass" as "D-" or higher - they can use financial aid to pay for ONE repeat of that course. Subsequent repetitions are ineligible for
financial aid, and would then need to be paid by other means. Please see the USM Financial Aid website for more information.

Internship Program

School of Business majors are encouraged to participate in an internship to experience on-the-job learning. Employment in a professional setting provides opportunities to apply classroom learning, develop work-related skills, and explore careers. Credit may be received for paid or non-paid positions with new employers, or for new responsibilities with current employers. Credit is not granted for past work experience. Students obtain internship positions by contacting the School of Business internship coordinator or by contacting employers to develop positions. Students are also welcome to discuss internship availability with faculty members and chairs. An intern must be advised by a faculty sponsor during the internship. Under the supervision of a faculty sponsor, the student must prepare a written learning contract that contains a job description, the student's learning goals, self-directed learning activities, and an evaluation process. Please see the website for the minimum hours required for each internship. Grading is pass/fail, except 397, which is graded. Refer to the course descriptions for ACC 295, 395-396, 695, BUS 295, 391-397, FIN 295, 395-396, RMI 295, 395-396 and MBA 695 for prerequisites and restrictions. Undergraduate majors are limited to a maximum of nine internship credit hours. Undergraduate minors are limited to a maximum of three internship credit hours. For further information, contact the School of Business Internship Office at (207) 780-4020.

Centers

Center for Entrepreneurship

In November 1996 the Board of Trustees of the University of Maine System approved the creation of the Center for Entrepreneurship at the University of Southern Maine. Administered by the School of Business within the College of Management and Human Service, the Center develops courses that respond to the needs of small businesses throughout Maine. The Center for Entrepreneurship, part of the Innovation, Creativity, and Entrepreneurship program, supports students and faculty in their business development efforts. More information can be found on the Center's website at http://usm.maine.edu/cesb or by contacting Richard Bilodeau, Lead Faculty, Innovation, Creativity and Entrepreneurship at (207) 780-4302.

Maine Center for Business and Economic Research

Program Director: Ryan Wallace

Originally formed in 1974, the Maine Center for Business and Economic Research (MCBER) is Maine's designated US Economic Development Administration (EDA) University Center whose mission is to assist and promote economic development. The Center serves as a conduit for aligning the expertise and skills of faculty and staff from the School of Business, the Muskie School, and other academic units at USM and within the UMaine System to address the challenges and opportunities facing the public and private sectors in Maine.

Supported by both public and private sources, the Center offers applied research and technical assistance services to Economic Development Districts, profit and nonprofit organizations, and individuals. These services include: business analytics, survey-based research, economic impact analysis, forecasting, data mining, statistical analysis, strategic planning, feasibility studies, market research, financial/economic modeling, and other forms of customized business/economic analysis. For additional information, contact the Maine Center for Business and Economic Research, University of Southern Maine, P.O. Box 9300, Portland, ME 04104-9300, (207) 780-5859, www.mainecber.com

Maine Small Business Development Centers

State Director: Mark Delisle

Associate State Director: Carol Papciak

Maine Small Business Development Centers (Maine SBDC) provide comprehensive business management assistance, training, resource, and information services to Maine's micro, small, and technology-based business communities. Professional certified counselors, who meet rigorous education and business experience standards, provide business assistance at no cost to Maine's existing and prospective business owners.

Maine SBDC is a partnership program of the U.S. Small Business Administration (SBA) in association with the SBA/OSBDC, Maine Department of Economic and Community Development (Maine DECD), the University of Southern Maine, and leading economic and/or community development hosting organizations, with support from other contractors, allies, and stakeholders. Accredited by the Association of Small Business Development Centers (ASBDC) and administered by USM's School of Business for over 30 years, Maine SBDC operates a network of nine service centers and numerous outreach offices located conveniently throughout the state.

Maine SBDC's mission is to engage itself and others in development activities that contribute to the improvement of the economic climate for and the success of micro, small, and technology-based businesses in the state of Maine. Its focus is to assist in the creation, growth, and maintenance
Accelerated Graduate Pathway to MBA

For highly motivated undergraduate students who are already looking ahead to graduate school, USM offers an Accelerated Graduate Pathway to the MBA program that allows you to begin graduate study while completing your bachelor's degree, saving you time and money -- which means you'll be ready for a career that much sooner, with your bachelor's and master's degrees in hand.

Why Consider a School of Business Accelerated MBA Program?

- No matter what your career choice, a solid understanding of business is always relevant.
- Since our MBA program only admits the academically best students, you will be part of a strong academic community.
- Maximize your professional skills and advance your career opportunities by networking with top business professionals.
- Develop closer links and more meaningful interaction with faculty through joint research and graduate assistantship opportunities.
- Save time and money by developing a sound plan for your future now.

Program Requirements

The MBA program is comprised of 27 credit hours of core courses and 9 credit hours of elective courses. In addition, up to 15 credit hours of foundation courses may be required depending on a student’s previous academic background. Please see the [MBA program](#) for course details.

Students in the accelerated pathway are required to maintain a grade point average of 3.0 or higher after 90 credit hours of undergraduate course work to remain in good standing and be allowed to continue in the accelerated pathway. Enrollment in 600-level MBA courses may only occur in a student's final semester of undergraduate course work.

Admission Information

In order to gain full admission into the Master of Business Administration program, a student must meet the following admission standards:

- Choose any major
- Maintain at least a 3.00 undergraduate cumulative GPA (student has a cumulative GPA of 3.0 or better each semester of undergraduate career; dean’s office checks each semester in order to take academic actions);
- Score a 500 on the GMAT. Please note: students entering the program directly from high school who scored a combined 1200 on the old SAT or 1270 on the new SAT (March 2016 or after) are waived from the GMAT.
- Complete the following courses with grades of C or better as well as any prerequisites:

  - BUS 340 Managing Organizational Behavior
  - ECO 101 Macroeconomics
  - ECO 102 Microeconomics
  - ACC 110 Financial Accounting
  - ACC 211 Managerial Accounting
  - MAT 210 Business Statistics (or other approved statistics course)
  - FIN 320 Basic Financial Management

How to Apply:

- On the Common App, select your preferred choice of major. You will then see the following option: “Please indicate your interest in one of the following accelerated pathway options at the University of Southern Maine” from which you can select a Pathway.
- In the University of Maine System application, select your First Choice Major and then you will see the following drop-down menu: Accelerated Graduate Degree Pathway (First Choice Major), from which you can select a Pathway.
If you are a Transfer or Continuing Student, please contact the University of Southern Maine Advising Office to meet with an academic advisor who can review your previous coursework and determine your eligibility for entering an Accelerated Graduate Pathway. Please call (207) 780-4040 or email: usm.advising@maine.edu

BS in Business Administration - Accounting Major

Description

The accounting major (21 credits) has a strong regional reputation for providing students with the quality accounting and business skills necessary for success in the accounting profession. Many of our students are employed in tax and accounting internships, obtaining valuable practical experience while completing their degree.

The accounting major offers students the coursework necessary to meet the rapidly changing business environment, in which accountants play a significant and critical role. Students learn accounting concepts and practical applications necessary to work in the profession. The program fosters the development of critical thinking and professional skills crucial for career success.

The major also prepares students for graduate studies in accounting and business such as our MBA with an accounting concentration. The undergraduate accounting major along with the MBA accounting concentration provides students with the depth and breadth of education needed to help pass the CPA exam and meet the 150 credit hour education required by Maine and most states for licensure as a CPA.

Program Requirements

In addition to meeting all University requirements, students must earn a minimum grade of C- in 100-200 level courses, and a C in 300-400 level courses in all Business Core courses applied toward the degree. To ensure that students graduate with a current understanding of their field, upper-level courses taken more than 10 years before the degree is awarded must have Departmental approval for use in the Business Core or the major.

Students may declare or change a major by completing a form available at the School office. Double majors are possible as long as no more than one course (3 credit hours) applied toward one major is applied toward the second major. Under no circumstances can more than one course (3 credit hours) be double-counted for two program options (e.g., major, minor, track, or concentration) within the School of Business.

Before enrolling in their first School of Business course (ACC, BUS, FIN, or RMI designations) requiring junior standing, students majoring in a School of Business major must have junior standing (54 credits completed) and a minimum grade point average of 2.33 in USM courses. This minimum GPA requirement supersedes any course-specific GPA requirement lower than 2.33.

Overview of course requirements

- Core Curriculum (USM requirement)
- Non-Business Core (School requirement)
- Business Core (School requirement)
- Major Requirements
- General Electives

USM Core Curriculum Requirements

(up to 45 credits, minus credit counted elsewhere) please see USM Core Curriculum section of this catalog for details. School of Business specific Core courses are noted below.

- Entry Year Experience – EYE required for students entering with fewer than 24 credit hours
- College Writing
- Quantitative Reasoning: MAT 210 Business Statistics (credits counted in the non-business core).
- Creative Expression
- Socio-cultural Analysis: ECO 101 Macroeconomics (credits counted in the non-business Core)
- Cultural Interpretation
- Science Exploration
- Ethical Inquiry, Social Responsibility, and Citizenship; May be fulfilled with BUS 347 Triple Bottom Line Business
- Diversity
- International: May be fulfilled and double counted in the Business Core section by successful completion of BUS 335 International Business or BUS 361 International Marketing.
• Thematic Cluster or a minor of 15 credits or more or a double major of 15 or more unique credits (Note: The Professional Practices Cluster includes Business Core courses; one of which may be counted in the Business Core and in the Professional Practices Cluster.)
• Capstone: BUS 450 Business Policy and Strategy (credits counted in the Business Core)

Non-business Core Requirements (14-17 credits)

• Spreadsheet proficiency: demonstrated by passing BUS 195 Spreadsheets and Problem Solving with a grade of C or higher, or by successfully passing a School of Business spreadsheet proficiency exam. Proficiency must be demonstrated to graduate.
• ECO 101 Introduction to Macroeconomics
• ECO 102 Introduction to Microeconomics
• MAT 108 College Algebra with C- or higher grade (Substitutes include a C- or higher grade in MAT 140 or approved higher level math course or passing a CLEP exam)
• MAT 210 Business Statistics with C- or higher grade or C- or higher grade in prior credit for MAT 120, or in another approved statistics course (http://usm.maine.edu/sb/stats).

Business Core Requirements (33 credits)

A minimum of 50 percent of business core courses must be taken at USM, and the student must achieve a minimum grade in each course (listed below).

ACC 110 Financial Accounting Information for Decision Making (C- or higher)
ACC 211 Managerial Accounting Information for Decision Making (C- or higher)
BUS 260 Marketing (C- or higher)
BUS 280 Legal Environment of Business (C- or higher)
BUS 301 Business Analytics (C or higher)
BUS 340 Managing Organizational Behavior (C or higher)
BUS 345 Information Technology/Management Information Systems (C or higher)
BUS 375 Production/Operations Management (C or higher)
BUS 450 Business Policy and Strategy (C or higher)
FIN 320 Basic Financial Management (C or higher)

Select one of the following international courses:

BUS 335 International Business (C or higher)
BUS 361 International Marketing (C or higher)
BUS 382 International Business Law (C or higher)
FIN 330 International Financial Management (C or higher)

Major Requirements (21 credits)

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher (with a minimum grade of C- in all ACC courses) in the 21 credits applied toward the major.

Required Courses (15 credits)

ACC 301 Financial Reporting I
ACC 302 Financial Reporting II
ACC 329 Accounting Information Systems
ACC 410 Auditing and Assurance
ACC 413 Concepts and Strategies of Taxation

Electives (6 credits)

Select two of the following courses:

ACC 395 Internship I in Accounting
ACC 405 Cost Management Systems
ACC 416 Governmental and Nonprofit Accounting
ACC 418 Principles of Fraud Examination
ACC 490 Independent Study in Accounting
ACC 499 Special Topics

General Electives (remaining credits for 120 credit minimum)

The exact number of general elective credits varies and is dependent upon choices made in University core requirements.
BS in Business Administration - Finance Major

Description

The finance major (15 credits) prepares students for careers in corporate finance, investments, financial services, banking, and related fields. Students learn a blend of theoretical and practical concepts and apply this knowledge to real-world settings. The program develops analytical and critical thinking skills that will aid students throughout their careers. The flexibility of the major requirements allows students to create self-designed specializations within the major. For example, students interested in pursuing a career in financial services might select FIN 321 Personal Financial Planning and an internship at a financial services company.

Program Requirements

In addition to meeting all University requirements, students must earn a minimum grade of C- in 100-200 level courses, and a C in 300-400 level courses in all Business Core courses applied toward the degree. To ensure that students graduate with a current understanding of their field, upper-level courses taken more than 10 years before the degree is awarded must have Departmental approval for use in the Business Core or the major.

Students may declare or change a major by completing a form available at the School office. Double majors are possible as long as no more than one course (3 credit hours) applied toward one major is applied toward the second major. Under no circumstances can more than one course (3 credit hours) be double-counted for two program options (e.g., major, minor, track, or concentration) within the School of Business.

Before enrolling in their first School of Business course (ACC, BUS, FIN, or RMI designations) requiring junior standing, students majoring in a School of Business major must have junior standing (54 credits completed) and a minimum grade point average of 2.33 in USM courses. This minimum GPA requirement supersedes any course-specific GPA requirement lower than 2.33.

Overview of course requirements

- Core Curriculum (USM requirement)
- Non-Business Core (School requirement)
- Business Core (School requirement)
- Major Requirements
- General Electives

USM Core Curriculum Requirements

(up to 45 credits, minus credit counted elsewhere) please see USM Core Curriculum section of this catalog for details. School of Business specific Core courses are noted below.

- Entry Year Experience – EYE required for students entering with fewer than 24 credit hours; May be fulfilled with EYE 125 Getting Down to Business
- College Writing
- Quantitative Reasoning: MAT 210 Business Statistics (credits counted in the non-business core).
- Creative Expression
- Socio-cultural Analysis: ECO 101 Macroeconomics (credits counted in the non-business Core)
- Cultural Interpretation
- Science Exploration
- Ethical Inquiry, Social Responsibility, and Citizenship; May be fulfilled with BUS 347 Triple Bottom Line Business
- Diversity
- International: May be fulfilled and double counted in the Business Core section by successful completion of BUS 335 International Business or BUS 361 International Marketing.
- Thematic Cluster or a minor of 15 credits or more or a double major of 15 or more unique credits (Note: The Professional Practices Cluster includes Business Core courses; one of which may be counted in the Business Core and in the Professional Practices Cluster.)
- Capstone: BUS 450 Business Policy and Strategy (credits counted in the Business Core)

Non-business Core Requirements (14-17 credits)

- Spreadsheet proficiency: demonstrated by passing BUS 195 Spreadsheets and Problem Solving with a grade of C or higher, or by successfully passing a School of Business spreadsheet proficiency exam. Proficiency must be demonstrated to graduate.
- ECO 101 Introduction to Macroeconomics
- ECO 102 Introduction to Microeconomics
- MAT 108 College Algebra with C- or higher grade (Substitutes include a C- or higher grade in MAT 140 or approved higher level math
course or passing a CLEP exam)
- MAT 210 Business Statistics with C- or higher grade or C- or higher grade in prior credit for MAT 120, or in another approved statistics course (http://usm.maine.edu/sb/stats).

Business Core Requirements (33 credits)

A minimum of 50 percent of business core courses must be taken at USM, and the student must achieve a minimum grade in each course (listed below).

ACC 110 Financial Accounting Information for Decision Making (C- or higher)
ACC 211 Managerial Accounting Information for Decision Making (C- or higher)
BUS 260 Marketing (C- or higher)
BUS 280 Legal Environment of Business (C- or higher)
BUS 301 Business Analytics (C or higher)
BUS 340 Managing Organizational Behavior (C or higher)
BUS 345 Information Technology/Management Information Systems (C or higher)
BUS 375 Production/Operations Management (C or higher)
BUS 450 Business Policy and Strategy (C or higher)
FIN 320 Basic Financial Management (C or higher)

Select one of the following international courses:
- BUS 335 International Business (C or higher)
- BUS 361 International Marketing (C or higher)
- BUS 382 International Business Law (C or higher)
- FIN 330 International Financial Management (C or higher) (if used to fulfill international; may not also be used to fulfill a finance elective below)

Major Requirements (15 credits)

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.5 or higher in the 15 credits applied toward the major.

Finance Major Requirements
- FIN 327 Investment Management
- FIN 321 Personal Financial Planning
- FIN 323 Financial Engineering
- FIN 326 Financial Modeling
- FIN 330 International Financial Management (cannot be counted in core)
- FIN 395 Internship I in Finance
- FIN 490 Independent Study in Finance
- FIN 499 Special Topics in Finance
- ACC 413 Concepts and Strategies of Taxation
- ACC 302 Financial Reporting II
- BUS 385 Entrepreneurship and Venture Creation
- BUS 485 Managing the Growing Entrepreneurial Venture
- RMI 320 Introduction to Risk Management

Finance Electives (12 credits; at least three courses must be FIN courses)
- FIN 490 Independent Study in Finance
- FIN 499 Special Topics in Finance
- ACC 413 Concepts and Strategies of Taxation
- ACC 302 Financial Reporting II
- BUS 385 Entrepreneurship and Venture Creation
- BUS 485 Managing the Growing Entrepreneurial Venture
- RMI 320 Introduction to Risk Management

General Electives (remaining credits for 120 credit minimum)

The exact number of general elective credits varies and is dependent upon choices made in University core requirements.

Admission Information

BS in Business Administration - General Management Major

Description
General management has the following tracks: a) entrepreneurship and small business management, b) international business, c) risk management and insurance, d) sustainable business, and e) generalist track (advanced study across multiple fields of business).

Program Requirements

Students in the general management major (15 credits) select one of the tracks below, which either provide broad exposure to management issues or provide a specific industry focus. Each track specifies 9 to 12 of the 15 credits in the major, leaving 3 to 6 credits for business electives. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

In addition to meeting all University requirements, students must earn a minimum grade of C- in 100-200 level courses, and a C in 300-400 level courses in all Business Core courses applied toward the degree. To ensure that students graduate with a current understanding of their field, upper-level courses taken more than 10 years before the degree is awarded must have Departmental approval for use in the Business Core or the major. Students must declare or change a major by completing a form available at the School office. Double majors are possible as long as no more than one course (3 credit hours) applied toward one major is applied toward the second major. Under no circumstances can more than one course (3 credit hours) be double-counted for two program options (e.g., major, minor, track, or concentration) within the School of Business.

Before enrolling in their first School of Business course (ACC, BUS, FIN, or RMI designations) requiring junior standing, students majoring in a School of Business major must have junior standing (54 credits completed) and a minimum grade point average of 2.33 in USM courses. This minimum GPA requirement supersedes any course-specific GPA requirement lower than 2.33.

Overview of course requirements

- Core Curriculum (USM requirement)
- Non-Business Core (School requirement)
- Business Core (School requirement)
- Major Requirements
- General Electives

USM Core Curriculum Requirements

(Up to 45 credits, minus credit counted elsewhere) please see USM Core Curriculum section of this catalog for details. School of Business specific Core courses are noted below.

- Entry Year Experience – EYE required for students entering with fewer than 24 credit hours; May be fulfilled with EYE 125/128 Getting Down to Business
- College Writing
- Quantitative Reasoning: MAT 210 Business Statistics (credits counted in the non-business core).
- Creative Expression
- Socio-cultural Analysis: ECO 101 Macroeconomics (credits counted in the non-business Core)
- Cultural Interpretation
- Science Exploration
- Ethical Inquiry, Social Responsibility, and Citizenship; May be fulfilled with BUS 347 Triple Bottom Line Business
- Diversity
- International: May be fulfilled and double counted in the Business Core section by successful completion of BUS 335 International Business or BUS 361 International Marketing.
- Thematic Cluster or a minor of 15 credits or more or a double major of 15 or more unique credits (Note: The Professional Practices Cluster includes Business Core courses; one of which may be counted in the Business Core and in the Professional Practices Cluster.)
- Capstone: BUS 450 Business Policy and Strategy (credits counted in the Business Core)

Non-business Core Requirements (14-17 credits)

- Spreadsheet proficiency: demonstrated by passing BUS 195 Spreadsheets and Problem Solving with a grade of C or higher, or by successfully passing a School of Business spreadsheet proficiency exam. Proficiency must be demonstrated to graduate.
- ECO 101 Introduction to Macroeconomics
- ECO 102 Introduction to Microeconomics
- MAT 108 College Algebra with C- or higher grade (Substitutes include a C- or higher grade in MAT 140 or approved higher level math course or passing a CLEP exam)
- MAT 210 Business Statistics with C- or higher grade or C- or higher grade in prior credit for MAT 120, or in another approved statistics course (http://usm.maine.edu/sb/stats).

Business Core Requirements (33 credits)
A minimum of 50 percent of business core courses must be taken at USM, and the student must achieve a minimum grade in each course (listed below).

ACC 110 Financial Accounting Information for Decision Making (C- or higher)
ACC 211 Managerial Accounting Information for Decision Making (C- or higher)
BUS 260 Marketing (C- or higher)
BUS 280 Legal Environment of Business (C- or higher)
BUS 301 Business Analytics (C or higher)
BUS 340 Managing Organizational Behavior (C or higher)
BUS 345 Information Technology/Management Information Systems (C or higher)
BUS 375 Production/Operations Management (C or higher)
BUS 450 Business Policy and Strategy (C or higher)
FIN 320 Basic Financial Management (C or higher)

Select one of the following international courses:
BUS 335 International Business (C or higher)
BUS 361 International Marketing (C or higher)
BUS 382 International Business Law (C or higher)
FIN 330 International Financial Management (C or higher)

Entrepreneurship and Small Business Track (15 credit hours)

Students in this track graduate with a concentration in entrepreneurship and small business management listed on their transcript. Required courses in this track may not be available at night. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements
- BUS 362 Market Opportunity Analysis or BUS 369 Marketing Research
- BUS 385 Entrepreneurship and Venture Creation
- BUS 386 Creative Strategies for Entrepreneurs
- BUS 485 Managing the Growing Entrepreneurial Venture

Select a 3 credit, 300-level or higher, ACC, BUS, FIN, or RMI course.

International Business Track (15 credit hours)

Students in this track graduate with a concentration in international business listed on their transcript. Students are encouraged to develop their foreign language skills, to travel abroad, and to obtain a minor in international studies. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements (in addition to the international requirement in the Business Core):
- BUS 335 International Business

Select 6 credits from
- BUS 361 International Marketing
- BUS 382 International Business Law
- BUS 394 Internship in International Business
- ECO 370 International Economics
- FIN 330 International Financial Management
- BUS 336 Approved International Experience (see below)
- BUS 337 Approved International Business Experience (see below)

Other approved courses.

Select 6 credits of 300-level or higher ACC, BUS, FIN, or RMI courses.

BUS 336 Approved International Experience, and BUS 337 Approved International Business Experience, award credit for educational activity by a student while outside of the U.S. that contributes to the student's understanding of international business and which has been approved by one of the international business faculty members.

Activities which normally will be approved for credit as BUS 336 include, without limitation:

- A course relevant to international business, taken at an educational institution outside the U.S., and qualifying for 3 or more credits when transferred to USM.
- BUS 490 Independent Study involving a student's activities outside the U.S. (3 cr. min.)
• A USM course relevant to international business, involving study outside the U.S. and which has 3 or more credits.
• An international study tour offered by a reputable organization. Courses relevant to international business shall include, without limitation, courses in economics, political science, law, history, geography, culture, and courses that develop skills in languages other than English. BUS 336 may be used either as a course in the International Business Track or as a 300-level or higher BUS course.

An activity approved for credit as BUS 337 will normally be limited to an upper-level (300-level or higher equivalent at USM) course in a business discipline, including economics and/or law, taken at an educational institution outside the U.S., and qualifying for three or more credits when transferred to USM. Approval for BUS 337 may be denied if the student lacks the necessary foundational course(s) in the relevant discipline. BUS 336 is not a prerequisite for BUS 337. BUS 337 may be used either as a course in the International Business track or as a 300-level or higher BUS course.

Risk Management and Insurance Track (15 credit hours)

The risk management and insurance track prepares students for careers in the insurance industry (including insurance carriers and underwriters, insurance agencies or brokerages, insurance service fields) and its allied fields, such as banking, financial planning, accounting, real estate, stockbrokerage, and third party administration. Students learn a blend of theoretical and practical concepts and apply this knowledge to risk management and insurance. The program develops analytical and critical thinking skills that will aid students throughout their careers. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements:
RMI 320 Introduction to Risk Management and Insurance
RMI 330 Health, Life, and Disability Insurance
RMI 350 Managing Risk with Property and Liability Insurance
Select 6 credits of 300-level or higher ACC, BUS, ECO (310 only), FIN or RMI courses, including - RMI 395 Internship in Insurance.

Sustainable Business Track (15 credit hours)

Students completing this track will be better prepared to identify "green market" opportunities and to manage – both traditional firms and social enterprises - for the triple bottom line of environmental, social, and financial performance. A concentration in sustainable business will be listed on their transcript. Students are encouraged to take ESP 101/102 as their Core science course and obtain a minor or certificate related to sustainability, applied energy, or nature tourism. Required courses in this track may not be available at night. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements
BUS 347 Triple Bottom Line Business
Select 6 credits from
BUS 391 Internship in Sustainable Business
ESP 275 Energy Use and Social Adaptations [prerequisite: ESP 101/2K or permission for SB concentrators]
Business: BUS 362/385/396/398/490, RMI 320
Economics: ECO 316/326/327/335
Other Areas: ESP 223/308, ANT 450 (Tourism, Development & Sustainability), POS 363/380 (Energy Policy), or advisor approved course.
Select 6 credits of 300-level or higher ACC, BUS, FIN, or RMI courses.

General Management Track (15 credit hours)

Students in this track select advanced study courses across multiple fields of business. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements
Select 3 credits from each of three different disciplinary areas:
• Accounting (ACC 301-329)
• Finance (FIN 321-330)
• Law (BUS 380, BUS 382)
• Management (BUS 335, 342, 346, 347, 377, 383-385, 485)
• Marketing (358-369, 398)
• Risk Management and Insurance (RMI 320-350)
• Sport Management (BUS 311, BUS 312, BUS 315, BUS 316)
Select 6 credits of 300-level or higher ACC, BUS, FIN, or RMI courses.

General Electives (remaining credits for 120 credit minimum)

The exact number of general elective credits varies and is dependent upon choices made in University core requirements.

BS in Business Administration - General Management Major with Entrepreneurship and Small Business Track

Description

Students in this track graduate with a concentration in entrepreneurship and small business management listed on their transcript.

Program Requirements

In addition to the requirements listed in the BS, the following requirements apply to the Entrepreneurship and Small Business Track:

Required courses in this track may not be available at night. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements

- BUS 362 Market Opportunity Analysis or BUS 369 Marketing Research
- BUS 385 Entrepreneurship and Venture Creation
- BUS 386 Creative Strategies for Entrepreneurs
- BUS 485 Managing the Growing Entrepreneurial Venture

Select a 3 credit, 300-level or higher, ACC, BUS, FIN, or RMI course.

BS in Business Administration - General Management Major with General Management Track

Description

Students in this track select advanced study courses across multiple fields of business.

Program Requirements

In addition to the requirements listed in the BS, the following requirements apply to the General Management Track:

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements

Select 3 credits from each of three different disciplinary areas:

- Accounting (ACC 301-329, 413)
- Finance (FIN 321-330)
- Information Management (BUS 377)
- Law (BUS 380, BUS 382)
BS in Business Administration - General Management Major with International Business Track

Description

Students in this track graduate with a concentration in international business listed on their transcript. Students are encouraged to develop their foreign language skills, to travel abroad, and to obtain a minor in international studies.

Program Requirements

In addition to the requirements listed in the BS, the following requirements apply to the International Business Track:

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements (in addition to the international requirement in the Business Core):

BUS 335 International Business

Select 6 credits from

BUS 361 International Marketing
BUS 382 International Business Law
BUS 394 Internship in International Business
ECO 370 International Economics
FIN 330 International Financial Management
BUS 336 Approved International Experience (see below)
BUS 337 Approved International Business Experience (see below)

Other approved courses.

Select 6 credits of 300-level or higher ACC, BUS, FIN, or RMI courses.

BUS 336 Approved International Experience, and BUS 337 Approved International Business Experience, award credit for educational activity by a student while outside of the U.S. that contributes to the student's understanding of international business and which has been approved by one of the international business faculty members.

Activities which normally will be approved for credit as BUS 336 include, without limitation:

- A course relevant to international business, taken at an educational institution outside the U.S., and qualifying for 3 or more credits when transferred to USM.
- BUS 490 Independent Study involving a student's activities outside the U.S. (3 cr. min.)
- A USM course relevant to international business, involving study outside the U.S. and which has 3 or more credits.
- An international study tour offered by a reputable organization. Courses relevant to international business shall include, without limitation, courses in economics, political science, law, history, geography, culture, and courses that develop skills in languages other than English.
- BUS 336 may be used either as a course in the International Business Track or as a 300-level or higher BUS course.

An activity approved for credit as BUS 337 will normally be limited to an upper-level (300-level or higher equivalent at USM) course in a business discipline, including economics and/or law, taken at an educational institution outside the U.S., and qualifying for three or more credits when transferred to USM. Approval for BUS 337 may be denied if the student lacks the necessary foundational course(s) in the relevant discipline. BUS 336 is not a prerequisite for BUS 337. BUS 337 may be used either as a course in the International Business track or as a 300-level or higher BUS course.
BS in Business Administration - General Management Major with Risk Management and Insurance Track

Description

The risk management and insurance track prepares students for careers in the insurance industry (including insurance carriers and underwriters, insurance agencies or brokerages, insurance service fields) and its allied fields, such as banking, financial planning, accounting, real estate, stockbrokerage, and third party administration. Students learn a blend of theoretical and practical concepts and apply this knowledge to risk management and insurance. The program develops analytical and critical thinking skills that will aid students throughout their careers.

What do risk management and insurance careers look like?

Although the insurance industry employs millions in the U.S., the careers that can be found in risk management and insurance still fly under the radars of many students. Those who land jobs in this industry tend to stay for a reason. The industry is relatively more stable than most others and the opportunities within it are thriving as the U.S. population ages, wealth grows, and new risks evolve. That you help individuals and businesses protect themselves against catastrophic losses and help them anticipate the next big risk can make careers in risk management and insurance personally fulfilling. Depending on your specific job, you may be in a position to help clients understand their risks, advise them about the options they have to manage those risks, and help them explore different ways to finance and control the risks.

Looking for more information about our Risk Management and Insurance program? Contact Dr. Dana Kerr, CPCU, ARM at 207.780.4059 or dana.kerr@maine.edu

Program Requirements

In addition to the requirements listed in the BS, the following requirements apply to the Risk Management and Insurance Track:

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Requirements:
- RMI 320 Introduction to Risk Management and Insurance
- RMI 330 Health, Life, and Disability Insurance
- RMI 350 Managing Risk with Property and Liability Insurance
- Select 6 credits of 300-level or higher ACC, BUS, ECO (310 only), FIN or RMI courses, including - RMI 395 Internship in Insurance.

BS in Business Administration - General Management Major with Sustainable Business Track

Description

Students completing this track will be better prepared to identify "green market" opportunities and to manage – both traditional firms and social enterprises - for the triple bottom line of environmental, social, and financial performance. A concentration in sustainable business will be listed on their transcript.

Program Requirements

In addition to the requirements listed in the BS, the following requirements apply to the Sustainable Business Track:

Students are encouraged to take ESP 101/102 as their Core science course and obtain a minor or certificate related to sustainability, applied energy, or nature tourism. Required courses in this track may not be available at night. At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or
higher in the 15 credits applied toward the major.

Requirements

- BUS 347 Triple Bottom Line Business
- Select 6 credits from:
  - BUS 391 Internship in Sustainable Business
  - ESP 275 Energy Use and Social Adaptations [prerequisite: ESP 101/2K or permission for SB concentrators]
  - Business: BUS 362/385/396/398/490, RMI 320
  - Economics: ECO 316/326/327/335
  - Other Areas: ESP 223/308, ANT 450 (Tourism, Development & Sustainability), POS 363/380 (Energy Policy), or advisor approved course.
- Select 6 credits of 300-level or higher ACC, BUS, FIN, or RMI courses.

BS in Business Administration - Marketing Major

Description

The marketing major (15 credits) prepares business administration students for a wide range of marketing and management careers ranging from client services to new product development and brand management. Separate courses are offered in career areas such as retailing, advertising, sales, and sport marketing. Students acquire a solid grasp of marketing concepts and practices along with a comprehensive understanding of business. Most important, the program fosters the development of professional skills crucial for career success. Students are encouraged to further develop skills by taking the applied courses listed below and being active in student organizations such as the School's Student Marketing Association (SMA).

Program Requirements

In addition to meeting all University requirements, students must earn a minimum grade of C- in 100-200 level courses, and a C in 300-400 level courses in all Business Core courses applied toward the degree. To ensure that students graduate with a current understanding of their field, upper-level courses taken more than 10 years before the degree is awarded must have Departmental approval for use in the Business Core or the major.

Students may declare or change a major by completing a form available at the School office. Double majors are possible as long as no more than one course (3 credit hours) applied toward one major is applied toward the second major. Under no circumstances can more than one course (3 credit hours) be double-counted for two program options (e.g., major, minor, track, or concentration) within the School of Business.

Before enrolling in their first School of Business course (ACC, BUS, FIN, or RMI designations) requiring junior standing, students majoring in a School of Business major must have junior standing (54 credits completed) and a minimum grade point average of 2.33 in USM courses. This minimum GPA requirement supersedes any course-specific GPA requirement lower than 2.33.

Overview of course requirements

- Core Curriculum (USM requirement)
- Non-Business Core (School requirement)
- Business Core (School requirement)
- Major Requirements
- General Electives

USM Core Curriculum Requirements

(up to 45 credits, minus credit counted elsewhere) please see USM Core Curriculum section of this catalog for details. School of Business specific Core courses are noted below.

- Entry Year Experience – EYE required for students entering with fewer than 24 credit hours; May be fulfilled with EYE 125/128 Getting Down to Business
- College Writing
- Quantitative Reasoning: MAT 210 Business Statistics (credits counted in the non-business core).
- Creative Expression
- Socio-cultural Analysis: ECO 101 Macroeconomics (credits counted in the non-business Core)
• Cultural Interpretation
• Science Exploration
• Ethical Inquiry, Social Responsibility, and Citizenship; May be fulfilled with BUS 347 Triple Bottom Line Business
• Diversity
• International: May be fulfilled and double counted in the Business Core section by successful completion of BUS 335 International Business or BUS 361 International Marketing.
• Thematic Cluster or a minor of 15 credits or more or a double major of 15 or more unique credits (Note: The Professional Practices Cluster includes Business Core courses; one of which may be counted in the Business Core and in the Professional Practices Cluster.)
• Capstone: BUS 450 Business Policy and Strategy (credits counted in the Business Core)

Non-business Core Requirements (14-17 credits)

• Spreadsheet proficiency: demonstrated by passing BUS 195 Spreadsheets and Problem Solving with a grade of C or higher, or by successfully passing a School of Business spreadsheet proficiency exam. Proficiency must be demonstrated to graduate.
• ECO 101 Introduction to Macroeconomics
• ECO 102 Introduction to Microeconomics
• MAT 108 College Algebra with C- or higher grade (Substitutes include a C- or higher grade in MAT 140 or approved higher level math course or passing a CLEP exam)
• MAT 210 Business Statistics with C- or higher grade or C- or higher grade in prior credit for MAT 120, or in another approved statistics course (http://usm.maine.edu/sb/stats).

Business Core Requirements (33 credits)

A minimum of 50 percent of business core courses must be taken at USM, and the student must achieve a minimum grade in each course (listed below).

ACC 110 Financial Accounting Information for Decision Making (C- or higher)
ACC 211 Managerial Accounting Information for Decision Making (C- or higher)
BUS 260 Marketing (C- or higher)
BUS 280 Legal Environment of Business (C- or higher)
BUS 301 Business Analytics (C or higher)
BUS 340 Managing Organizational Behavior (C or higher)
BUS 345 Information Technology/Management Information Systems (C or higher)
BUS 375 Production/Operations Management (C or higher)
BUS 450 Business Policy and Strategy (C or higher)
FIN 320 Basic Financial Management (C or higher)

Select one of the following international courses:
BUS 335 International Business (C or higher)
BUS 361 International Marketing (C or higher)
BUS 382 International Business Law (C or higher)
FIN 330 International Financial Management (C or higher)

Major Requirements (15 credits)

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 3 credits of internship can count toward the major. See descriptions below for specific requirements of each major. Students must earn a grade point average of 2.33 or higher in the 15 credits applied toward the major.

Marketing Major Requirements:
BUS 360 Marketing Strategy
BUS 365 Consumer Behavior or BUS 322 Sport Consumer Behavior
BUS 369 Marketing Research

Select an experiential Marketing course:
BUS 321 Independent Project in Marketing
BUS 341 New Product Development
BUS 356 Digital Marketing
BUS 358 E-commerce
BUS 362 Market Opportunity Analysis
BUS 364 Professional Selling
BUS 367 Marketing Management
BUS 392 Internship in Marketing
BUS 398 Marketing Practicum
Other courses with faculty permission.
Select a 3-credit 300-level or higher Marketing elective:

- BUS 311 Sport Marketing
- BUS 321 Independent Project in Marketing
- BUS 341 New Product Development
- BUS 356 Digital Marketing
- BUS 358 E-commerce
- BUS 361 International Marketing (only if not used to fulfill your international requirement in the Business Core)
- BUS 362 Market Opportunity Analysis
- BUS 363 Branding and Advertising
- BUS 364 Professional Selling
- BUS 366 Retail Management
- BUS 367 Marketing Management
- BUS 392 Internship in Marketing
- BUS 398 Marketing Practicum
- Other courses with faculty permission such as, BUS 399 New Product Development

General Electives (remaining credits for 120 credit minimum)

The exact number of general elective credits varies and is dependent upon choices made in University core requirements.

BS in Business Administration - Sport Management Major

Description

The sport management major (27 credits) prepares students for careers in the dynamic, global, and multimillion-dollar sport industry. Sport business professionals must understand the complexities of this competitive industry and develop strategies for personal and organizational success. The sport management major is designed to meet the needs of these managers in a range of sport industry settings, and recognizes the essential business foundations required to be successful in the field. Academic and practical experiences are combined to prepare students to gain successful employment in a range of sport industry settings. The sport management coursework provides students with the skills to be successful in a variety of areas including professional and amateur sports organizations, event management, sport marketing agencies, sport facility management, sporting goods manufacturing, and collegiate athletics.

Sport Management Internships and Advanced Experience

Meet the Sport Management Faculty

Program Requirements

In addition to meeting all University requirements, students must earn a minimum grade of C- in 100-200 level courses, and a C in 300-400 level courses in all Business Core courses applied toward the degree. To ensure that students graduate with a current understanding of their field, upper-level courses taken more than 10 years before the degree is awarded must have Departmental approval for use in the Business Core or the major.

Students may declare or change a major by completing a form available at the School office. Double majors are possible as long as no more than one course (3 credit hours) applied toward one major is applied toward the second major. Under no circumstances can more than one course (3 credit hours) be double-counted for two program options (e.g., major, minor, track, or concentration) within the School of Business.

Before enrolling in their first School of Business course (ACC, BUS, FIN, or RMI designations) requiring junior standing, students majoring in a School of Business major must have junior standing (54 credits completed) and a minimum grade point average of 2.33 in USM courses. This minimum GPA requirement supersedes any course-specific GPA requirement lower than 2.33.

Overview of course requirements

- Core Curriculum (USM requirement)
- Non-Business Core (School requirement)
- Business Core (School requirement)
- Major Requirements
- General Electives

USM Core Curriculum Requirements
Entry Year Experience – EYE required for students entering with fewer than 24 credit hours; May be fulfilled with EYE 125/128 Getting Down to Business

College Writing

Quantitative Reasoning: MAT 210 Business Statistics (credits counted in the non-business core).

Creative Expression

Socio-cultural Analysis: ECO 101 Macroeconomics (credits counted in the non-business Core)

Cultural Interpretation

Science Exploration

Ethical Inquiry, Social Responsibility, and Citizenship; May be fulfilled with BUS 347 Triple Bottom Line Business

Diversity

International: May be fulfilled and double counted in the Business Core section by successful completion of BUS 335 International Business or BUS 361 International Marketing.

Thematic Cluster or a minor of 15 credits or more or a double major of 15 or more unique credits (Note: The Professional Practices Cluster includes Business Core courses; one of which may be counted in the Business Core and in the Professional Practices Cluster.)

Capstone: BUS 450 Business Policy and Strategy (credits counted in the Business Core)

Non-business Core Requirements (14-17 credits)

Spreadsheet proficiency: demonstrated by passing BUS 195 Spreadsheets and Problem Solving with a grade of C or higher, or by successfully passing a School of Business spreadsheet proficiency exam. Proficiency must be demonstrated to graduate.

ECO 101 Introduction to Macroeconomics

ECO 102 Introduction to Microeconomics

MAT 108 College Algebra with C- or higher grade (Substitutes include a C- or higher grade in MAT 140 or approved higher level math course or passing a CLEP exam)

MAT 210 Business Statistics with C- or higher grade or C- or higher grade in prior credit for MAT 120, or in another approved statistics course (http://usm.maine.edu/sb/stats).

Business Core Requirements (33 credits)

A minimum of 50 percent of business core courses must be taken at USM, and the student must achieve a minimum grade in each course (listed below).

ACC 110 Financial Accounting Information for Decision Making (C- or higher)
ACC 211 Managerial Accounting Information for Decision Making (C- or higher)
BUS 260 Marketing (C- or higher)
BUS 280 Legal Environment of Business (C- or higher)
BUS 301 Business Analytics (C or higher)
BUS 340 Managing Organizational Behavior (C or higher)
BUS 345 Information Technology/Management Information Systems (C or higher)
BUS 375 Production/Operations Management (C or higher)
BUS 450 Business Policy and Strategy (C or higher)
FIN 320 Basic Financial Management (C or higher)

Select one of the following international courses:

BUS 335 International Business (C or higher)
BUS 361 International Marketing (C or higher)
BUS 382 International Business Law (C or higher)
FIN 330 International Financial Management (C or higher)

Internship Track Major Requirements (27 credits)

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 6 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 27 credits applied toward the major.

Sport Management Requirements

BUS 210 Introduction to Sport Management
BUS 311 Sport Marketing
BUS 312 Sport Law
BUS 315 Financial Aspects of Sport
BUS 415 Sport Management Seminar
BUS 397 Internship/Advanced Field Experience in Sport Management (6 credits)

Sport Management Electives (6 credits)
BUS 313 Sport Facility Management
BUS 314 Sport Communication
BUS 316 Sport Event Management
BUS 317 Sport Sponsorship and Sales
BUS 318 Athletic Administration
BUS 319 Sport Tourism

General Track Major Requirements (27 credits)

At least 50 percent of credit hours applied to the major must be taken at USM. No more than 6 credits of internship can count toward the major. Students must earn a grade point average of 2.33 or higher in the 27 credits applied toward the major.

Sport Management Requirements
BUS 210 Introduction to Sport Management
BUS 311 Sport Marketing
BUS 312 Sport Law
BUS 315 Financial Aspects of Sport
BUS 415 Sport Management Seminar

Sport Management Electives (12 credits)
BUS 313 Sport Facility Management
BUS 314 Sport Communication
BUS 316 Sport Event Management
BUS 317 Sport Sponsorship and Sales
BUS 318 Athletic Administration
BUS 319 Sport Tourism
BUS 322 Sport Consumer Behavior
BUS 378 Sport Management Practicum

General Electives (remaining credits for 120 credit minimum)
The exact number of general elective credits varies and is dependent upon choices made in University core requirements.

Certificate in Accounting

Description
This certificate program is designed to prepare individuals, who already possess an undergraduate degree in another field of study, for a career or graduate study in accounting.

Program Requirements
The certificate program consists of 15 credit hours in accounting; plus up to 9 credit hours of Non-Accounting Core and up to 6 credit hours of Accounting Foundation courses. The certificate is open to individuals who possess: 1) an undergraduate degree with a minimum cumulative GPA of 2.33, or 2) a master’s level (or above) degree.

Career changers who already have completed an undergraduate course of study will have earned, at the completion of the certificate program, 135 or more hours of the 150-hour requirement to sit for the CPA exam. Individuals wishing to sit for the CPA exam should also take BUS 280 Legal Environment of Business. Those who need additional credits to meet the 150-hour requirement, and who do not wish to enter a graduate degree program, may take additional accounting electives and/or other business or undergraduate courses of interest to meet the credit-hour requirement to sit for the CPA exam. Matriculated USM students are not eligible to obtain this certificate.

Required Non-Accounting Core (up to 9 credits)*

- ECO 101 Introduction to Macroeconomics or ECO 102 Introduction to Macroeconomics
- MAT 120 Introduction to Statistics (C- or higher) or MAT 210 Business Statistics (C- or higher)
- FIN 320 Basic Financial Management (C or higher)
Courses are a prerequisite to one or more of the Accounting Certificate Core courses. Required Non-Accounting Core may be waived on a case by case basis. Students entering the Certificate in Accounting program prior to the Fall 2017, are grandfathered and are not required to complete the Non-Accounting Core.

**Accounting Foundation Courses (up to 6 credits)**

- ACC 110 Financial Accounting Information for Decision Making (C- or higher)
- ACC 211 Managerial Accounting Information for Decision Making (C- or higher)

**The foundation courses (six credits) are prerequisites to one or more of the Accounting Certificate Core courses.**

**Required Accounting Core Courses (15 credits)** Courses must be taken in the order required by the prerequisite structure in effect.

- ACC 301 Financial Reporting I (C- or higher)
- ACC 302 Financial Reporting II (C- or higher)
- ACC 329 Accounting Information Systems (C- or higher)
- ACC 410 Auditing and Assurance (C- or higher)
- ACC 413 Concepts and Strategies of Taxation (C- or higher)

Enrollment in specific courses is based on eligibility criteria and availability of space in the courses. Enrollment in some courses may be restricted or prohibited in any given semester due to high demand from degree students. Admission into the certificate program does not guarantee admission into any other USM program or enrollment in any specific course. Students must complete the required 15 credit hours within four years after the application date and must earn a minimum 2.33 cumulative GPA (with a minimum grade of C- in each course) to obtain the certificate. Students may be able to apply earned certificate course credit toward an undergraduate business degree at USM with an accounting major if the minimum GPA requirements are met.

Students who have completed required coursework elsewhere, prior to admission to the certificate program, may petition to substitute up to three credits (one course) of another 400-level ACC course for one of the required courses (a grade of C or better in the course taken elsewhere is required). Non-matriculated students enrolled in this certificate program will not be eligible for financial aid.

**Recommended Course Sequence**

**Level 1**

- ECO 101 Introduction to Macroeconomics or ECO 102 Introduction to Macroeconomics
- MAT 120 Introduction to Statistics (C- or higher) or MAT 210 Business Statistics (C- or higher)
- ACC 110 Financial Accounting Information for Decision Making (C- or higher)

**Level 2**

- FIN 320 Basic Financial Management (C or higher)
- ACC 211 Managerial Accounting Information for Decision Making (C- or higher)
- ACC 413 Concepts and Strategies of Taxation (C- or higher)

**Level 3**

- ACC 301 Financial Reporting I (C- or higher)
- ACC 329 Accounting Information Systems (C- or higher)

**Level 4**

- ACC 302 Financial Reporting II (C- or higher)
- ACC 410 Auditing and Assurance (C- or higher)

**Admission Information**

Admission will be limited to those with either:
1) an undergraduate degree with a minimum cumulative GPA of 2.33, or
2) a master's level (or above) degree.
Please note: Non-matriculated students enrolled in this certificate program are not eligible for financial aid.

APPLICATION PROCEDURE

The recommended application deadlines for the program are August 15th for the fall semester and January 1st for the spring semester; however, applications will be accepted after those dates. Please contact the Office of Admissions for more information.

COST

Tuition is set by the University of Maine System Board of Trustees. Visit the student accounts website for more tuition and fee information.

Certificate in Event Management

Description

The certificate in event management is designed to permit non-matriculated individuals, an opportunity to focus on the development of knowledge and skills in the event management field. Courses emphasize management, marketing and operations in a variety of event settings.

Program Requirements

The required courses for the nine credit hour certificate are:

Required three credit hours:

BUS 316 Sport Event Management or
   TAH 311 Event Planning and Management

Select six credit hours from:

BUS 311 Sport Marketing
BUS 313 Sport Facility Management
BUS 316 Sport Event Management (if not taken above)
BUS 317 Sport Sponsorship and Sales
BUS 378 Sport Management Practicum
TAH 221 Tourism and Hospitality Management
TAH 311 Event Planning and Management (if not taken above)
TAH 321 Lodging Operations and Systems

Courses may be taken in any order as long as course prerequisites are satisfied. Waiver of prerequisites may be done on a case-by-case basis.

Admission Information

Admission is open to those who have completed 54 credit hours with a GPA of 2.33 or higher. Those who have a minimum of three years of relevant work experience and a high school diploma, or GED may also apply.

Enrollment in specific courses is based on eligibility criteria and availability of space in the courses. Enrollment in some highly demanded courses may be restricted or prohibited in any given semester. Admission into the certificate program does not guarantee admission into any other USM program or enrollment in any specific course.

Please note: Non-matriculated students enrolled in this certificate program are not eligible for financial aid.

APPLICATION PROCEDURE
The recommended application deadlines for the program are August 15th for the fall semester and January 1st for the spring semester; however, applications will be accepted after those dates. Please contact the Office of Admissions for more information.

COST

Tuition is set by the University of Maine System Board of Trustees. Visit the student accounts website for more tuition and fee information.

Certificate in Finance

Description

The certificate in Finance is open to non-matriculated students. The certificate courses emphasize topics in corporate finance, investments, financial services, banking, and related fields. Students learn a blend of theoretical and practical concepts and apply this knowledge to real-world settings. The program develops analytical and critical thinking skills that will aid students throughout their chosen careers.

Program Requirements

Students must complete the required Finance Core and Electives (15 credit hours) within four years after the application date and must earn a minimum 2.5 cumulative GPA to obtain the certificate. Students may be able to apply earned certificate course credit towards an undergraduate business degree at USM as long as they earn a minimum 2.5 GPA in the certificate program courses.

Admission to the certificate in finance (15 credits plus up to 9 credits required non-finance core) is open to 1) those who have completed 54 credit hours with a GPA of 2.33 or higher; or 2) those who have a minimum of three years of investment, financial risk management, or other financial services work experience and a high school diploma, or its equivalent.

Enrollment in specific courses is based on eligibility criteria and availability of space in the courses. Enrollment in some highly demanded courses may be restricted or prohibited in any given semester. Admission into the certificate program does not guarantee admission into any other USM program or enrollment in any specific course.

Transfer credit will not be permitted for the FIN core courses.

Please note: Non-matriculated students enrolled in this certificate program are not eligible for financial aid.

Required Non-Finance Core (9 credit hours)*
ACC 110 Financial Accounting Information for Decision Making
ECO 101 Introduction of Macroeconomics
MAT 120 Introduction to Statistics or MAT 210 Business Statistics
*Required Non-Finance Core may be satisfied with two semesters of calculus or a technical degree such as engineering, computer science, physics, or related field from a regionally accredited institution. Waiver of non-finance core courses is done on a case by case basis.

Required Finance Core Courses (6 credit hours)
FIN 320 Basic Financial Management
FIN 327 Investment Management

Elective Courses: Select any three (9 credit hours)
FIN 321 Personal Financial Planning
FIN 323 Financial Engineering
FIN 325 International Finance
FIN 326 Financial Modeling
ACC 413 Concepts and Strategies of Taxation

Admission Information

Admission to the certificate in finance (15 credits plus up to 9 credits required non-finance core) is open to:
1) those who have completed 54 credit hours with a GPA of 2.33 or higher; or
2) those who have a minimum of three years of investment, financial risk management, or other financial services work experience and a high
school diploma, or its equivalent.

Enrollment in specific courses is based on eligibility criteria and availability of space in the courses. Enrollment in some highly demanded courses may be restricted or prohibited in any given semester. Admission into the certificate program does not guarantee admission into any other USM program or enrollment in any specific course.

*Please note: Non-matriculated students enrolled in this certificate program are not eligible for financial aid.*

APPLICATION PROCEDURE

The recommended application deadlines for the program are August 15th for the fall semester and January 1st for the spring semester; however, applications will be accepted after those dates. Please contact the Office of Admissions for more information.

COST

Tuition is set by the University of Maine System Board of Trustees. Visit the student accounts website for more tuition and fee information.

Certificate in Financial Planning

Description

The certificate in Financial Planning is open to non-matriculated students. The certificate in Financial Planning courses emphasize topics in financial management and investments, personal financial planning, risk management and insurance, employee benefits, tax planning, and related fields. Students learn a blend of theoretical and practical concepts and apply this knowledge to real-world settings. The program develops analytical and critical thinking skills that will aid students throughout their chosen careers.

Program Requirements

Required Prerequisite Core (12 credit hours)*

- ACC 110 Financial Accounting Information for Decision Making
- ECO 101 Introduction of Macroeconomics
- FIN 320 Basic Financial Management
- MAT 120 Introduction to Statistics or MAT 210 Business Statistics

*Required Prerequisite Core may be satisfied with two semesters of calculus or a technical degree such as engineering, computer science, physics, or related field from a regionally accredited institution. Waiver of non-finance core courses is done on a case by case basis.

Required Financial Planning Courses (15 credit hours)

- ACC 413 Concepts and Strategies of Taxation
- FIN 321 Personal Financial Planning
- FIN 327 Investment Management
- RMI 320 Introduction to Risk Management and Insurance
- RMI 330 Health, Life, and Disability Insurance

Admission Information

Admission to the certificate in financial planning (15 credits plus up to 12 credits required prerequisite core) is open to:
1) those who have completed 54 credit hours with a GPA of 2.33 or higher; or
2) those who have a minimum of three years of investment, financial risk management, or other financial services work experience and a high school diploma, or its equivalent.

Enrollment in specific courses is based on eligibility criteria and availability of space in the courses. Enrollment in some highly demanded courses may be restricted or prohibited in any given semester. Admission into the certificate program does not guarantee admission into any other USM program or enrollment in any specific course.

*Please note: Non-matriculated students enrolled in this certificate program are not eligible for financial aid.*
APPLICATION PROCEDURE

The recommended application deadlines for the program are August 15th for the fall semester and January 1st for the spring semester; however, applications will be accepted after those dates. Please contact the Office of Admissions for more information.

COST

Tuition is set by the University of Maine System Board of Trustees. Visit the student accounts website for more tuition and fee information.

Certificate in Risk Management and Insurance

Description

The certificate program in risk management and insurance (RMI) is a way for individuals already working in risk management, insurance, and financial services to develop a deeper understanding of the business in which they work without the larger and protracted experience of seeking a complete (or in some cases second) undergraduate degree. The RMI certificate is only available to non-matriculated students.

Can courses translate into credit towards a professional designation?

The National Alliance for Insurance Education & Research has agreed to allow students who successfully complete the RMI 350 course (Managing Risk with Property & Liability Insurance) to receive automatic credit for one of the five components of their Certified Risk Managers (“CRM”) designation. Because the National Alliance has a “CRM for CIC” program already in place, credit for the RMI 350 course will at the same time satisfy one of the five parts of the Certified Insurance Counselors (“CIC”) designation.

The National Alliance does not require students to be enrolled in the RMI degree program or the RMI certificate program to benefit from this relationship. Indeed, those already holding the CRM designation can satisfy the full year’s annual update requirement by successfully completing RMI 350.

For more information regarding the RMI Certificate Program contact:
Professor Dana Kerr
(207) 780-4059 - dana.kerr@maine.edu

Program Requirements

One of the three RMI courses (RMI 350) has been approved for automatic credit toward two separate professional designations offered by a national provider of risk management and insurance professional education.

Admission to this certificate program will be limited to those with either: 1) a minimum cumulative 2.33 GPA in at least 54 previous semester hours of college credit, or 2) a minimum of three years of risk management, insurance, or other financial services work experience. Applicants relying on the latter admission requirement will need to provide evidence of at least a high school diploma, or its equivalent.

The RMI certificate program is a 15-hour program consisting of two required core courses and three elective courses. There is no particular order in which either core or elective courses must be taken as long as individual course prerequisites are satisfied.

Required Core Courses (6 credit hours):
   RMI 320 Introduction to Risk Management and Insurance
   RMI 330 Health, Life, and Disability Insurance or
   RMI 350 Managing Risk with Property and Liability Insurance

Elective Courses (9 credit hours) – choose any three courses from the following list (with permission, other risk-related courses can satisfy elective requirements):
   RMI 330 Health, Life, and Disability Insurance or
   RMI 350 Managing Risk with Property and Liability Insurance (if not chosen as a required course above)
   ACC 110 Financial Accounting Information for Decision Making
   ACC 418 Principles of Fraud Examination (ACC 110)
   BUS 201 Personal Finance
   BUS 280 Legal Environment of Business
   BUS 340 Managing Organizational Behavior
   BUS 347 Triple Bottom Line Business (BUS 260 and 280, or permission)
Enrollment in specific courses is based on eligibility criteria and availability of space in the courses. Enrollment in some highly demanded courses may be restricted or prohibited in any given semester. Admission into the certificate program does not guarantee admission into any other USM program or enrollment in any specific course.

Students must complete the required 15 credit hours within four years after the application date and must earn a minimum 2.33 cumulative GPA to obtain the certificate. Students may be able to apply earned certificate course credit towards an undergraduate business degree at USM provided they earn a minimum 2.33 GPA in the certificate program courses.

Related courses previously taken in associate or baccalaureate degree programs at regionally accredited colleges and universities in which a minimum grade of C+ was earned may be applied towards the non-RMI elective courses of the proposed certificate program. Transfer credit will not be permitted for the RMI core courses. Non-matriculated students enrolled in this certificate program are not eligible for financial aid.

**Admission Information**

Admission to the RMI certificate program is open to those who have completed 54 credit hours with a GPA of 2.33 or higher. Those who have a minimum of three years of risk management, insurance, or other financial services work experience and a high school diploma, or GED may also apply.

Enrollment in specific courses is based on eligibility criteria and availability of space in the courses. Enrollment in some highly demanded courses may be restricted or prohibited in any given semester. Admission into the certificate program does not guarantee admission into any other USM program or enrollment in any specific course.

*Please note: Non-matriculated students enrolled in this certificate program are not eligible for financial aid.*

**APPLICATION PROCEDURE**

The recommended application deadlines for the program are August 15th for the fall semester and January 1st for the spring semester; however, applications will be accepted after those dates. Please contact the Office of Admissions for more information.

**COST**

Tuition is set by the University of Maine System Board of Trustees. Visit the student accounts website for more tuition and fee information.
Minor in Accounting

Description

The minor in accounting is designed to permit undergraduate majors from outside the School of Business, as well as non-accounting business administration majors within the School, an opportunity to develop a more in-depth knowledge and skill in accounting.

Program Requirements

Students wishing to pursue the minor must obtain a copy of the Authorization for Accounting Minor form from the School of Business, complete and return it to the School of Business advisor, signed by the student's current advisor for his or her major. Completion of at least 12 credits at USM with an overall GPA of 2.33 is required at the time of application. Accounting minors need a 2.33 cumulative grade point average in the five courses taken in the minor. A student may transfer to the minor up to 6 credit hours of comparable accounting courses.

The minor in accounting is 15 credit hours, including 6 credit hours required in:
- ACC 110 Financial Accounting Information for Decision Making (C- or higher)
- ACC 211 Managerial Accounting Information for Decision Making (C- or higher)

And nine credit hours from the following:
- ACC 301 Financial Reporting I
- ACC 302 Financial Reporting II
- ACC 329 Accounting Information Systems
- ACC 395 Internship I in Accounting
- ACC 405 Cost Management Systems
- ACC 413 Concepts and Strategies of Taxation
- ACC 416 Governmental and Nonprofit Accounting
- ACC 418 Principles of Fraud Examination
- ACC 499 Special Topics in Accounting

Admission Information

Authorization Form for the Minor in Accounting

Minor in Business Administration

Description

The minor in business administration allows students from a variety of majors across the University to complement their education by enrolling in courses to develop skills in several functional areas of management.

Program Requirements

The minor in business administration (21 credits) is available only to students in majors outside the School. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to 9 credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to other minor courses. Check course description for details.

Select 21 credit hours from:
- ACC 110 Financial Accounting Information for Decision Making (C- or higher)
- ACC 211 Managerial Accounting Information for Decision Making (C- or higher)
- BUS 200 Introduction to Business
- BUS 201 Personal Finance
BUS 260 Marketing (C- or higher)
BUS 280 Legal Environment of Business (C- or higher)
BUS 340 Managing Organizational Behavior (C or higher)
BUS 345 Information Technology/Management Information Systems (C or higher)
BUS 395 Internship I
ECO 101 Introduction to Macroeconomics
ECO 102 Introduction to Microeconomics
RMI 320 Introduction to Risk Management and Insurance

Admission Information

Authorization for the Minor in Business Administration

Minor in Event Planning and Management

Description

This minor provides students with practical skills and theoretical background in the planning, organizing, managing, and promotion of events. Students can take electives related to sport and recreation, festivals and fairs, weddings, meetings and conventions, and other types of events.

Program Requirements

Students must complete one of the following:

- BUS 316 Sport Event Management
- TAH 311 Event Planning and Management

Select four courses (twelve credit hours) from the following list, with at least one of each prefix:

- BUS 311 Sport Marketing
- BUS 313 Sport Facility Management
- BUS 316 Sport Event Management (if not taken above)
- BUS 317 Sport Sponsorship and Sales
- TAH 221 Tourism and Hospitality Management
- TAH 261 Introduction to Cultural Tourism
- TAH 311 Event Planning and Management (if not taken above)
- TAH 340 Topics in Event Planning
- TAH 410 Seminar in Tourism Promotion (selected topics)
- TAH 440 Applied Topics in Event Planning

One of the four electives may be from the following list of professional experiences, as long as the course involves some aspect of event planning, management, sales, and/or promotion.

- BUS 378 Sport Management Practicum
- BUS 393 Internship in Sport Management
- TAH 209 Tourism and Hospitality Internship I
- TAH 309 Tourism and Hospitality Internship II
- TAH 407 Field Study in Tourism and Hospitality
- TAH 408 Practicum in Tourism and Hospitality
- TAH 409 Tourism and Hospitality Internship

Recommended Course Sequence

Courses may be taken in any order provided course prerequisites are satisfied. Waiver of prerequisites may be done on a case-by-case basis.
Admission Information

The minor in event management (15 credits) is available to students in all majors except Sport Management majors. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to six credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to minor courses. Check course description for details.

Authorization Form for the Minor in Event Management

Minor in Finance

Description

The minor in Finance is open to all non-Finance majors. The minor in Finance courses emphasize topics in corporate finance, investments, financial services, banking, and related fields. Students learn a blend of theoretical and practical concepts and apply this knowledge to real-world settings. The program develops analytical and critical thinking skills that will aid students throughout their chosen careers.

Program Requirements

Required Non-Finance Core (9 credit hours)*

ACC 110 Financial Accounting Information for Decision Making (C- or higher)
ECO 101 Introduction of Macroeconomics
MAT 120 Introduction to Statistics (C- or higher) or MAT 210 Business Statistics (C- or higher)

*Required Non-Finance Core may be satisfied with two semesters of calculus or a technical degree such as engineering, computer science, physics, or related field from a regionally accredited institution. Waiver of non-finance core courses is done on a case by case basis.

Required Finance Core Courses (6 credit hours)

FIN 320 Basic Financial Management (C or higher)
FIN 327 Investment Management

Elective Courses: Select any three (9 credit hours)

FIN 321 Personal Financial Planning
FIN 323 Financial Engineering
FIN 325 International Finance
FIN 326 Financial Modeling
ACC 413 Concepts and Strategies of Taxation

Admission Information

The minor in Finance (15 credits plus 9 credits for non-finance core) is available to all non-finance majors. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to 6 credit hours of acceptable courses toward the 15 credits of required courses. To complete the minor, students must have a grade point average of at least 2.5 in the minor courses. Minimum grades may be required as prerequisite to other minor courses. Check course description for details.
Minor in Financial Planning

Description

The minor in Financial Planning is open to all majors. The minor in Financial Planning courses emphasize topics in financial management and investments, personal financial planning, risk management and insurance, employee benefits, tax planning, and related fields. Students learn a blend of theoretical and practical concepts and apply this knowledge to real-world settings. The program develops analytical and critical thinking skills that will aid students throughout their chosen careers.

Program Requirements

Required Prerequisite Core (12 credit hours)*

- ACC 110 Financial Accounting Information for Decision Making (C- or higher)
- ECO 101 Introduction to Macroeconomics
- FIN 320 Basic Financial Management (C or higher)
- MAT 120 Introduction to Statistics (C- or higher) or MAT 210 Business Statistics (C- or higher)

*Required Non-Finance Core may be satisfied with two semesters of calculus or a technical degree such as engineering, computer science, physics, or related field from a regionally accredited institution. Waiver of non-finance core courses is done on a case by case basis.

Required Financial Planning Courses (15 credit hours)

- ACC 413 Concepts and Strategies of Taxation
- FIN 321 Personal Financial Planning
- FIN 327 Investment Management
- RMI 320 Introduction to Risk Management and Insurance
- RMI 330 Health, Life, and Disability Insurance

Recommended Course Sequence

Admission Information

The minor in financial planning (15 credits plus up to 12 credits required prerequisite core) is available to all majors. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to 3 credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.5 in the minor courses. Minimum grades may be required as prerequisite to other minor courses. Check course description for details.

Minor in Innovation, Creativity, and Entrepreneurship (ICE)

Description

The ICE minor (15 credits) is designed primarily for students in majors outside the School who are interested in starting a business or otherwise using creative strategies and the tools of innovation in their field of interest. The minor complements any field of study, including the sciences, arts, humanities, engineering, and education. The minor is also available to School of Business majors as long as no more than 3 credits applied to major and minor requirements are double counted.

Program Requirements

Required Course (6 credits):
Select 6 credits from the following options:

- BUS 188 Introductory ICE Topics (1-3 credit modules, e.g., Business Model Canvas)
- BUS 200 Introduction to Business
- BUS 260 Marketing
- BUS 341 New Product Development
- BUS 362 Market Opportunity Analysis
- BUS 383 Social Entrepreneurship
- BUS 388 Advanced ICE Topics (e.g., Venture Capital, Social Enterprise)
- BUS 390 ICE Internship [SB majors]
- BUS 485 Managing the Growing Entrepreneurial Venture
- LOS 360 Innovation & Organizations or EYE 180 Create/Innovation Engineering

Select remaining 3 credits from any courses not selected above or from the following options:

- ARH 110 Visual Environments
- ART 141 Surface Space and Time (2D)
- ART 142 Surface Space and Time (3D)
- ART 151 Fundamentals of Perceptual Drawing
- BUS 347 Triple Bottom Line Business
- BUS 356 Digital Marketing
- BUS 389 Self-directed Innovation Project [1-6 credits]
- EYE 199 Exploring Tourism Entrepreneurship
- LOS 308 Lean Methods & Systems
- LOS 311 Leadership Through Art
- LOS 360 Innovation in Organizations
- MUS 271 Principles of Digital Audio and Music Production
- TAH 211 Tourism Entrepreneurship
- THE 102 Acting for Non-majors
- THE 230 Fundamental of Design
- THE 375 Performance Art

Admission Information

Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to six credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to other minor courses. Check course description for details.

Authorization Form for the Minor in Innovation, Creativity and Entrepreneurship

Minor in Marketing

Description

The marketing minor (15 credits) is recommended for students who may wish to obtain in-depth knowledge and explore career opportunities in marketing and is available only to students in majors outside the School.

Program Requirements

The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to six credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses.

The required courses for the minor are:
Six required credit hours
   BUS 260 Marketing (C- or higher)
   BUS 365 Consumer Behavior

Select nine credit hours from
   BUS 200 Introduction to Business
   BUS 311 - Sport Marketing
   BUS 341 - New Product Development
   BUS 356 - Digital Marketing
   BUS 358 - E-commerce
   BUS 360 - Marketing Strategy
   BUS 361 – International Marketing
   BUS 362 - Market Opportunity Analysis
   BUS 363 – Branding and Advertising
   BUS 364 - Professional Selling
   BUS 366 - Retail Management
   BUS 369 - Marketing Research
   BUS 392 - Internship in Marketing
   BUS 398 - Marketing Practicum
   BUS 399 - Special Topics

Admission Information

The minor in marketing (15 credits) is available to all non-marketing majors. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to 6 credit hours of acceptable courses toward the 15 credits of required courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to other minor courses. Check course description for details.

Authorization Form for the Minor in Marketing

Minor in Pre-MBA

Description

The pre-MBA minor (26 credits) is recommended for students who may wish to pursue a Master of Business administration and is available only to students in majors outside the School.

Program Requirements

Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to 12 credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. To fulfill MBA foundation requirement, all courses must be completed with a C (2.0) or higher grade.

The required courses (26 credit hours) for the minor are:
   ACC 110 Financial Accounting Information for Decision Making (C or higher)
   ACC 211 Managerial Accounting Information for Decision Making (C or higher)
   BUS 340 Managing Organizational Behavior (C or higher)
   ECO 101 Introduction to Macroeconomics (C or higher)
   ECO 102 Introduction to Microeconomics (C or higher)
   FIN 320 Basic Financial Management (C or higher)
   MAT 108 College Algebra (C or higher)
   MAT 210 Business Statistics (C or higher)

Admission Information
The minor in Pre-MBA (26 credits) is available to all majors outside of the School of Business. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to 12 credit hours of acceptable courses toward the 26 credits of required courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to other minor courses. Check course description for details.

**Authorization Form for the Minor in Pre-MBA**

**Minor in Risk Management and Insurance**

**Description**

The minor in risk management and insurance is designed to permit undergraduate majors from outside the School of Business, as well as non-risk management and insurance track majors within the School, an opportunity to develop a more in-depth knowledge of the risk management process and the insurance industry.

**Program Requirements**

Students wishing to pursue the minor must obtain a copy of the Risk Management and Insurance Minor form from the School of Business, complete and return it to the School of Business advisor, signed by the student's current advisor for his or her major. Completion of at least 12 credits at USM with an overall GPA of 2.33 is required at the time of application. RMI minors need a 2.33 cumulative grade point average in the five courses taken in the minor. A student may transfer to the minor up to 6 credit hours of comparable courses.

The minor in risk management and insurance is 15 credit hours, including 9 credit hours required in:

- RMI 320 Introduction to Risk Management and Insurance
- RMI 330 Health, Life and Disability Insurance
- RMI 350 Managing Risk with Property and Liability Insurance

And six credits of elective courses - choose any two from the following list:

- ACC 418 Principles of Fraud Examination (ACC 110)
- BUS 280 Legal Environment of Business
- BUS 347 Triple Bottom Line Business (BUS 260 and 280, or permission)
- CMS 255 Business and Professional Communication
- CRM 216 White-collar Crime (CRM 100 or permission)
- ESP 203 Environmental Communication (ESP 101/102)
- ESP 375 Environmental Risk Assessment and Management (ESP 101/102 and ESP 203, or permission)
- FIN 321 Personal Financial Planning (FIN 320)
- FIN 323 Financial Engineering (FIN 320)
- FIN 327 Investment Management (FIN 320)
- ITP 310 Facility Planning
- ITS 300 Ergonomics/Time Study
- ITS 320 Occupational Safety and Health
- ITT 376 Network Security and Ethics (ITT 272 (ITT 181) or permission)
- POS 360 Terrorism and the American Public
- PSY 340 Behavior Modification (PSY 101)
- SWO 370 Human Behavior in the Social Environment (SWO 201, 250, PSY 101, HRD 200)
- SWO 374 Sexual Harassment in Education and Work (permission)
- SWO 375 Gender and Aging (permission)
- TAH 321 Lodging Operations and Systems (TAH 101 or TAH 221)

**Recommended Course Sequence**

Courses may be taken in any order provided individual course prerequisites are satisfied.

**Admission Information**
Students wishing to pursue the minor must obtain a copy of the Risk Management and Insurance Minor form from the School of Business, complete and return it to the School of Business advisor, signed by the student's current advisor for his or her major. Completion of at least 12 credits at USM with an overall GPA of 2.33 is required at the time of application. RMI minors need a 2.33 cumulative grade point average in the five courses taken in the minor. A student may transfer to the minor up to 6 credit hours of comparable courses.

Authorization Form for the Risk Management and Insurance Minor

Minor in Sport Media

Description

The minor in sport media is designed for students in all majors and provides an opportunity to focus on the development of knowledge and skills in the sport media field. Courses offered emphasize media writing, communication, video production, and relevant technologies.

Program Requirements

Required courses (six credit hours):

CMS 103 Intro to Media Studies
BUS 311 Sport Marketing or BUS 314 Sport Communication

Select nine credit hours from:

BUS 311 Sport Marketing (if not taken above)
BUS 314 Sport Communication (if not taken above)
BUS 316 Sport Event Management
BUS 378 Sport Management Practicum
CMS 202 Writing for the Popular Print
CMS 203 Intro to Video Production
CMS 204 Intro to Video Production Lab (1 credit)
CMS 215 Journalism Reporting and Writing
CMS 255 Business and Professional Communication
CMS 274 Writing for the Media
CMS 302 Writing the Feature Story
ITT 241 Information and Communication Technologies
ITT 344 Graphic Communication Technologies

Recommended Course Sequence

Courses may be taken in any order provided individual course prerequisites are satisfied.

Admission Information

The minor in sport media (15 credits) is available to students in all majors. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to six credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to minor courses. Check course description for details.

Authorization Form for the Minor in Sport Media
Minor in Sport Tourism

Description

The minor in sport tourism is designed for students in all majors and provides a broad overview of important sport tourism concepts and issues. Elective courses cover subjects such as sport marketing, sponsorship, hospitality, and event and venue management.

Program Requirements

Required course:

- BUS 319 Sport Tourism

Select twelve credit hours from:

- BUS 311 Sport Marketing
- BUS 313 Sport Facility Management
- BUS 314 Sport Communication
- BUS 316 Sport Event Management
- BUS 317 Sport Sponsorship and Sales
- BUS 378 Sport Management Practicum
- REC 233 Outdoor Recreation
- TAH 101 Introduction to Tourism and Hospitality
- TAH 221 Introduction to Hospitality Management
- TAH 231 Introduction to Sustainable Tourism
- TAH 241 Tourism and Community Development
- TAH 250 Nature-Based and Adventure Tourism
- TAH 261 Introduction to Cultural Tourism
- TAH 311 Event Planning and Management
- TAH 321 Lodging Operations and Systems

Admission Information

The minor in sport tourism (15 credits) is available to students in all majors. Students who wish to pursue the minor must complete a declaration form available at the School of Business. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to six credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to minor courses. Check course description for details.

Authorization Form for Minor in Sport Tourism

Course Descriptions

- Undergraduate
- Graduate

Undergraduate

ACC 110 Financial Accounting Information for Decision Making
This course is designed to help students appreciate the role of accountants in providing information helpful to decisions of investors, creditors, government regulators, and others, and how that information can be used. Emphasis is on understanding the meaning and value of the balance sheet, income statement, and statement of cash flows. The role of the auditor, internal controls, and ethical issues are examined. The annual report
is used to explore how corporations apply accounting principles in presentations to the public. Prerequisites: minimum of 12 earned credit hours and evidence of successfully meeting the University’s college readiness requirements in writing and mathematics. Cr 3.

**ACC 211 Managerial Accounting Information for Decision Making**
This course will provide students with the opportunity to learn basic concepts and accounting systems involved in the use of managerial accounting information in making planning and control decisions in organizations. Basic concepts include different types of costs (e.g., direct, indirect, fixed, variable, and relevant costs). Basic accounting systems include systems for cost allocation (e.g., job-order costing, activity-based costing), planning (e.g., cost-volume-profit analysis, master budget), and control (e.g., flexible budgets, variance analysis, responsibility accounting, performance measurement). Prerequisites: ACC 110 (C- or higher) and sophomore standing. Cr 3.

**ACC 295 Internship in Accounting**
An internship course in accounting. Prerequisites: sophomore standing, School of Business major, 2.5 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is normally limited to accounting majors who have not completed degree requirements. Majors are limited to a maximum of nine internship credits toward the degree; this course counts for general elective credit only. Variable credit, 1-3 credits, 47 internship hours/credit hour. Repeatable up to a total of 3 credits. Pass/Fail.

**ACC 301 Financial Reporting I**
An examination of the conceptual framework, the primary financial statements, and the methods and rationale for recording and reporting assets. Emphasis is on the effects of present and potential economic events on the financial statements. The course discusses the advantages, limitations and deficiencies associated with generally accepted principles in connection with presenting decision useful information. Prerequisites: ACC 110 (C- or higher), ACC 211 (C- or higher), and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

**ACC 302 Financial Reporting II**
An examination of the methods and rationale for recording liabilities and equity. The course also examines the statement of cash flows. Emphasis is on the effect of present and potential economic events on the primary financial statements. The course discusses the advantages, limitations, and deficiencies associated with generally accepted principles in connection with presenting decision-useful information. Prerequisites: ACC 301, FIN 320 (C or higher), and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

**ACC 329 Accounting Information Systems**
This course explores the theory and tools needed to select, use, set up internal controls for, and obtain information from accounting systems. The basic debits and credits of double-entry accounting are reviewed using a manual practice set that includes preparing typical business documents. The business activities performed in the expenditure, production, and revenue cycles are covered together with the documents, internal controls, and reporting needs relevant to each cycle. Significant emphasis is placed on the effects of error on financial reports, the controls needed to prevent and detect errors in accounting systems, and the correction of system errors. The use of small business accounting software is introduced. Students use accounting software to set up accounts, process transactions, and produce managerial and standard financial accounting reports. Prerequisites: ACC 211 (C- or higher), ACC 301(or concurrent), and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

**ACC 395 Internship I**
The first internship course in accounting is described in the general School of Business catalog text. Prerequisites: junior standing, 2.5 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is normally limited to accounting majors or minors who have not completed degree requirements. Pass/fail. Cr 3.

**ACC 396 Internship II**
This is the second internship course in accounting. Prerequisites: 2.5 GPA or higher, and permission of a School of Business advisor and instructor. May petition Department to take concurrently with ACC 395. Enrollment is normally limited to accounting majors who have not completed degree requirements. Credits from this course count as general electives only. Pass/fail. Cr 3.

**ACC 405 Cost Management Systems**
This course is designed to explore how cost management systems can be used to support competitive strategy in global markets. This is accomplished by providing an understanding of the underlying and fundamental concepts in cost accounting. Group activities and writing are an integral part of this course. Prerequisites: ACC 211 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

**ACC 410 Auditing and Assurance**
This course examines the public accounting profession, auditing standards, and professional ethics. The course explores the process by which an auditor forms an opinion as to the “fairness of presentation” of financial statements, giving an overview of audit evidence and audit evidence accumulation methodology. The course exposes students both to the demand for and supply of the profession’s flagship service, financial statement audits, and to the nature of the value-added assurance and attestation services decision makers demand in the information age. The course illustrates with real companies, links class discussion and assignments to student skills, and encourages unstructured problem solving. This course provides an opportunity for students to study auditing concepts and theory at an advanced level by examining a number of issues, with extensive reading from the auditing research literature, in addition to the textbook material. Prerequisites: ACC 302 (or concurrent), ACC 329, and senior standing. Non School of Business students please see enrollment policy for eligibility. Fall only. Cr 3.
ACC 413 Concepts and Strategies of Taxation
This course provides a conceptual understanding of the federal tax system, and its impact on individuals, corporations, and partnerships. The primary emphasis is on fundamental income tax concepts and principles, with an overview of other taxes. Detailed technical coverage and return preparation are minimized. The economic, political, social, and judicial reasoning underlying tax provisions are explored. Tax issues and changes under current consideration at the national, state, local and international levels are discussed. Basic research skills and methodology are introduced. Prerequisites: ACC 110 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Fall only. Cr 3.

ACC 416 Governmental and Nonprofit Accounting
An analysis of the environment and characteristics of government and nonprofit organizations, with an in-depth study of the basic concepts and standards of financial reporting for such entities. Financial management and accountability considerations specific to government and nonprofit organizations are emphasized. Prerequisites: ACC 301 and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

ACC 418 Principles of Fraud Examination
This course examines the subject of fraud from both management and accounting perspectives. Utilizing a variety of techniques including text, lecture, case studies, guest speakers, and occasional videos, the course seeks to familiarize students with the conditions that facilitate fraud; the profile of the fraud perpetrator; common types of fraud; and methods of prevention, detection, and resolution. Numerous historical cases of fraud are examined. Students are brought to appreciate the prevalence of fraud in current society as well as the almost innumerable ways in which it can be committed. Students entering the business world are provided a perspective for understanding. Prerequisites: ACC 110 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

ACC 490 Independent Study in Accounting
Selected topics in the various areas of accounting, auditing, and income taxes may be studied and researched on an independent basis. Enrollment is normally limited to accounting and finance degree candidates. Prerequisites: permission of instructor and program chair and senior standing. Cr 1-3.

ACC 499 Special Topics in Accounting
Prerequisites vary by topic. Cr 1-3.

BUS 188 Introductory ICE Topics
This course explores topics in Innovation, Creativity, or Entrepreneurship. Primarily intended for non-majors. Prerequisites vary. Cr 1-3.

BUS 195 Spreadsheets and Problem Solving
An examination of problem-solving techniques using modern computer applications software. Primary focus is on the use of electronic spreadsheets as a 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 101 or equivalent proficiency and computer literacy. Cr 3.

BUS 200 Introduction to Business
This course is designed to introduce the student to the contemporary business environment and the variety of typical activities engaged in by business professionals. It explores how different business functions are integrated to accomplish the goals of the business within an increasingly competitive business environment. It is designed for anyone interested in becoming knowledgeable about successful business practices. Students with credit for BUS 101 or other introductory business course may not enroll. This course is intended for non-majors, and is restricted to students with fewer than 9 credits in business, finance, and accounting. Business and accounting majors may not enroll without the approval of their academic advisor. Those with credit for BUS 101 may not enroll. Prerequisites: Fewer than nine credits in BUS, FIN and ACC. Limited offerings. Cr 3.

BUS 201 Personal Finance
Primary emphasis is to teach students how to become more knowledgeable and independent over money matters. Topics such as obtaining financial aid, managing student loans, career and education planning, budgeting, credit cards, stock market investing, real estate, and insurance will be covered. Upon completing the course, students will be on their way to making better money decisions. This course is open to all USM students. When taken by business or accounting majors, this course will give general elective credit. Limited offerings. Cr 3.

BUS 203 Career Planning and Development
Students in this course identify and develop career goals and plans while improving their writing skills. Students engage in activities relating to personal and professional interest profiling, interest and employment inventories, interview preparation, resume construction, job searches, and business writing. Prerequisites: sophomore standing and ENG 100/101C or equivalent course. Limited offerings. Cr 3.

BUS 210 Introduction to Sport Management
This course provides an overview of the business of sports, including career opportunities. The value of professional management to sports organizations is examined. Cr 3.
BUS 260 Marketing
This course is an introduction to the field of marketing. Topics include marketing strategy for products and services, market segmentation, targeting, and positioning, product issues, pricing, promotion, distribution, consumer behavior, marketing research and information systems, international marketing, and nonprofit marketing. Prerequisite: minimum of 24 earned credit hours. Cr 3.

BUS 275 Applied Business Analysis
This course provides students with an understanding of statistical concepts and tools that are critical in business decision making. The discussion and development of each topic are presented in an application setting, with the statistical results providing insights and solutions to real world problems. The course work requires extensive use of commercially available statistical software. Prerequisite: BUS 195 (C or higher grade, or test-out option), MAT 108 (C- or higher grade), and MAT 210 (C- or higher grade) or other approved statistics course (see http://usm.maine.edu/sb/stats for approved courses). Cr 3.

BUS 280 Legal Environment of Business
This course introduces students to the legal system, tort law, product liability, consumer law, labor law, equal employment law, intellectual property 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 284 Enactus Project
Participation in (but not leadership of) Enactus social entrepreneurship project. May be repeated for up to 3 credit hours. Cr 1.

BUS 295 Internship in Business Administration
An internship course in business administration. Prerequisites: sophomore standing, School of Business major, 2.33 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is normally limited to majors who have not completed degree requirements. Majors are limited to a maximum of nine internship credits toward the degree; this course counts for general elective credit only. Variable credit, 1-3 credits, 47 internship hours/credit hour. Repeatable up to a total of 3 credits. Pass/Fail.

BUS 301 Business Analytics
Analytics is the scientific process of transforming data into insights for making better decisions. This course introduces students to all three areas of business analytics: descriptive, predictive, and prescriptive. Emphasis is placed on developing students' abilities to recognize the need for analytics, formulating business problems, selecting and testing analytics models, and interpreting the implications of results. Prerequisites: BUS 195 (C or higher grade, or test-out option), MAT 108 (C- or higher grade), and MAT 210 (C- or higher grade) or another approved statistics course (see http://usm.maine.edu/school-of-business/stats for approved courses). Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 311 Sport Marketing
Basic marketing concepts are applied to sport organizations, both amateur and professional. Topics include promotions and public relations, sport consumer behavior, strategic marketing planning, marketing information management, marketing communications, and sponsorship. Prerequisites: BUS 260 (C- or higher). Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 312 Sport Law
This course examines the legal system, its terminology, and principles in the context of professional and amateur sports. Emphasis is on identifying and analyzing legal issues, the ramifications of those issues, and the means of limiting the liability of sport organizations. Prerequisites: BUS 280 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Fall only. Cr 3.

BUS 313 Sport Facility Management
An investigation of the functions of sport managers in the design, operation, and financing of facilities and venues. Students will examine the issues pertaining to management of public and private arenas, stadiums, theatres, galleries, festivals, racetracks, and multipurpose facilities. Management of temporary facilities for special events will also be considered. Prerequisite: junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 314 Sport Communication
This course is designed to introduce the student to the role of effective communication in the sport, art, and entertainment industry settings. The nature and function of communication will be examined in a variety of settings. Emphasis will be placed on interpersonal communications, public relations, mass media relations, public speaking, and innovative technology. Prerequisite: junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr. 3.

BUS 315 Financial Aspects of Sport
Basic theory in finance and accounting is applied to managerial control of sport organizations. Topics include forms of ownership, taxation, financial analysis, feasibility studies, and economic impact studies. Prerequisites: (ACC 211 (C- or higher) or FIN 320, (C or higher)) and junior standing; (concurrent enrollment in FIN 320 is recommended). Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.
BUS 316 Sport Event Management
This course is designed to provide practical involvement in managing a sport event. Students will be assigned to committees for which they will plan, organize, publicize and manage all aspects of event operations during the semester. A required component of the course will include a commitment to work with the actual event. Prerequisite: junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 317 Sport Sponsorship and Sales
Overview of all elements of sport sponsorships, including rationale, benefits, proposal development. Sales management strategies will focus specifically on the unique aspects of sport sponsorship environment. Students will create marketing surveys, develop sponsorship proposals, identify and contact potential sponsors, conduct negotiation and sales, learn activation techniques, and evaluate sponsor packages. Prerequisite: BUS 311 and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 318 Athletics Administration
This course is designed to introduce the student to the management issues faced by administrators within collegiate and high school athletics departments. Students will develop an understanding of issues such as governance, financial considerations, National Collegiate Athletic Association (NCAA) and conference compliance, gender equity and Title IX, conference membership issues and realignment, legislation, and reform. Prerequisite: junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 319 Sport Tourism
This course introduces students to the nature, structure, and complexity of the sport tourism industry. Topics covered include: economic, sociocultural and environmental impacts, motivations, marketing, and development principles. Prerequisite: junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 321 Independent Projects in Marketing
This course is designed to give marketing students an opportunity to conduct independent research and projects with a faculty mentor. Students will meet regularly with their mentor during the semester to discuss their independent studies progress. At the end of the semester, students submit a written report and present their findings to their faculty mentor and the business client (if applicable). Prerequisites: BUS 260 (C- or higher), junior standing, and instructor permission. Non School of Business students please see enrollment policy for eligibility. Cr. 1-4.

BUS 322 Sport Consumer Behavior
This course will examine the personal, psychological, and environmental factors which influence sport events and related products consumption. We will consider determinants of both participate and spectator consumption behaviors at recreational, collegiate, and professional level of sport. The course will utilize both a theoretical and applied approach to explain and demonstrate sport consumer behavior and its application to sport managers and marketers in developing marketing communications, enhancing the consumption experience, and identifying key elements of the consumer decision-making process. Prerequisites: BUS 260 (C- or higher), and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 335 International Business
Introduction to the global economy and the political and cultural environments of international business. Topics include financial, marketing, and human resource issues in international business. Prerequisites: ECO 101, ECO 102, and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 336 Approved International Experience
An educational activity while outside the U.S. that contributes to the student’s understanding of international business and which has been approved by one of the international business faculty members. (See International Business Track for more information.) Prerequisite: junior standing. Cr. 3.

BUS 337 Approved International Business Experience
An educational activity while outside the U.S. that directly contributes to the student’s understanding of international business and has been preapproved by one of the international business faculty members. Normally limited to an upper-level course in a business discipline, including economics and/or law. (See International Business Track for more information.) Prerequisite: junior standing. Cr 3.

BUS 340 Managing Organizational Behavior
A survey of the disciplines of management and organizational behavior, and of the practices managers employ in planning, organizing, leading, and controlling organizations. Topics include self-awareness, perception and decision making, individual differences and diversity, motivation, group dynamics, communication, stress, power and politics, organizational design, and change. The environmental context, workforce diversity, the global economy, and managerial ethics are core integrating themes. Prerequisite: junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 341 New Product Development
This course reviews the fundamentals of product development and commercialization, offering students from two different disciplines the chance to explore what it takes to bring a new product to market. Students will gain real world insights into the process of developing and screening an idea, testing a product concept, creating a product prototype, performing business analysis, exploring test marketing, writing a marketing plan,
and bringing a product to market through the commercialization process. Prerequisites: BUS 260 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

**BUS 342 Leadership**
The purpose of this course is to help students be more effective exercising leadership. To do this, the course will first teach the distinction among leadership, authority, and management, and also among different leadership situations. The course will then provide experiential exercises and exposure to tools and techniques appropriate to the various challenges. Prerequisites: BUS 340 (C or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

**BUS 345 Information Technology/Management Information Systems**
Surveys information/systems technology for the management of corporate information as a resource. Managerial and technical dimensions of information systems are blended in a framework of information technology. Specific topics will evolve with the field but may include data communications, information systems theory, database concepts, and decision support systems. Prerequisite: Sophomore standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

**BUS 346 Human Resource Management**
Analysis of professional practice issues in personnel and human resource management. Students will form in-class enterprises to explore topics including: human resource planning, recruitment, staffing, performance appraisal, compensation and reward system design, training and development, employee rights and safety, labor-management relations, and legal and international dimensions of human resource management. Prerequisite: junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

**BUS 347 Triple-Bottom-Line Business**
How can firms pursue profits without harming the planet or the ‘way life should be’? This course explores sustainable business strategies and practices that can be used to manage the triple bottom line of financial, environmental, and social performance. Ethical action is a recurring theme. Students with credit for BUS 357 may not enroll. Prerequisites: junior standing, BUS 260 (C- or higher), BUS 280 (C- or higher), or instructor permission. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

**BUS 356 Digital Marketing**
Students will develop skills required to meet the challenges of a 21st century promotional marketplace. Digital marketing will address topics such as search-engine optimization, content strategy, campaign development, and display advertising. Working within an online simulation, students learn promotional best practices by writing targeted advertisements, creating business landing pages and management of online media investments. Prerequisites: BUS 260 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

**BUS 358 E-Commerce**
This course examines various business models used in electronic commerce, provides an understanding of how an e-presence is established, and explores the strategic use of e-commerce in a global environment. Students will develop skills in establishing a Web presence for a business and business planning. Prerequisites: BUS 260 (C- or higher), BUS 345 (C or higher), and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

**BUS 360 Marketing Strategy**
This course prepares students to evaluate strategic marketing options, make informed marketing decisions, and formulate strategic marketing policies, based on quantitative and qualitative analysis. Basic skills emphasized in this class are situation analysis, management by profit and loss, implementing marketing strategies, brand management, positioning, and market segmentation. This is a foundation course for marketing majors. Prerequisites: BUS 260 (C- or higher) and sophomore standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

**BUS 361 International Marketing**
This course addresses the critical marketing skills required for business survival in today’s world economy. Students learn to apply global marketing and financial management concepts and techniques during a semester-long, simulated global market program. Students analyze and manage international product lines and adapt to cultural differences while working in a computer simulated global marketplace. Prerequisites: BUS 260 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Fall only. Cr 3.

**BUS 362 Market Opportunity Analysis**
In this course, student teams work with a local business to develop a market opportunity. Areas of analysis include target-market identification, industry trends, demand analysis, capacity and fit issues, competitive analysis, and forecasting. Prerequisites: BUS 260 (C- or higher) and junior standing. Students are encouraged to take BUS 365 and BUS 369 before BUS 362. Non School of Business students please see enrollment policy for eligibility. Cr 3.

**BUS 363 Branding and Advertising**
This course develops the necessary knowledge and skills to create a clear and compelling portrayal of the brand offering, whether it involves small businesses, entrepreneurial ventures, corporations or not-for-profit organizations. It uses a mix of different marketing communication methods to create a sustainable competitive advantage in the marketplace. Prerequisites: BUS 260 (C- or higher) and junior standing. Non School
BUS 364 Professional Selling
This course is designed to equip students with the fundamental understanding of the role of professional selling within all types of organizations, with an emphasis on development of communication, relationship building, and presentation skills. The course is interactive/“hands on” and will include: video case studies, role playing, sales presentations, guest lectures, use of PowerPoint, use of sales management software, group presentations, mini lectures, and Internet research. Prerequisites: BUS 260 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. 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. Prerequisites: BUS 260 (C- or higher) and junior standing. Students with credit for BUS 165 may not enroll. Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 366 Retail Management
Students examine the use of merchandise and service to satisfy the needs of targeted consumers in a competitive retail environment. Topics include marketing strategy, merchandising, location, store management, non-store retailing, pricing and financial analysis, organizational structure and human resources, and information systems. Prerequisites: ACC 110 (C- or higher), BUS 260 (C- or higher) or instructor permission, and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 367 Marketing Management
Students gain experience making marketing decisions as members of teams. The emphasis is on applying a management perspective to marketing decision making. Students must integrate knowledge from other functional disciplines into a strategic marketing planning framework. Prerequisites: BUS 260 (C- or higher), any 300-level marketing course, and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 369 Marketing Research
Students learn the process of marketing research as they work on a semester-long project with community businesses and organizations. Students learn how to produce a secondary data report, how to design and conduct a qualitative research study, and how to design and analyze the results of an online survey. Students will also acquire key secondary data research techniques, one-on-one interview skills, questionnaire design principles, and data analysis skills. The course has a significant PC lab component to encourage hands-on learning. Prerequisites: MAT 210 (C- or higher) or another approved statistics course (see [http://usm.maine.edu/school-of-business/stats](http://usm.maine.edu/school-of-business/stats) for approved courses) (or concurrent), BUS 260 (C- or higher), and junior standing. Spring only. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 370 Management Science
This course examines the role, perspective, and commonly used tools of quantitative analysis in business decision making. 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 analysis results. Prerequisites: BUS 195 (C or higher grade, or test-out option), BUS 275 (C- or higher) or MAT 212, and junior standing. Students with credit for BUS 270 or BUS 371 may not enroll. Non School of Business students please see enrollment policy for eligibility. Limited Offerings. 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: process design, quality management, capacity planning, supply chain management, and production planning. Prerequisites: BUS 195 (C or higher) or test-out option, BUS 370 (C or higher) or BUS 301 (C or higher), and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 376 Professional Selling
This course is designed to equip students with the fundamental understanding of the role of professional selling within all types of organizations, with an emphasis on development of communication, relationship building, and presentation skills. The course is interactive/“hands on” and will include: video case studies, role playing, sales presentations, guest lectures, use of PowerPoint, use of sales management software, group presentations, mini lectures, and Internet research. Prerequisites: BUS 260 (C- or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 377 Information Visualization
In this course, students will learn to create charts, maps, and other visualizations to tell stories and to create effective graphical displays of evidence. Students will learn to critically evaluate examples from print media and the internet after learning the foundations of information visualization. Prerequisites: junior standing and successful completion of the University’s Core requirement in quantitative reasoning. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 378 Sport Management Practicum
This course provides students with the opportunity to apply learned sport management skills, theories, and ideas in a sport industry setting. The course will allow a student to bridge the gap between classroom learning and practical application. This course is optional. The practicum will be a minimum of 200 hours and may be completed full or part-time. This course is open to students in the Sport Management General Track Major only who have not completed degree requirements. Prerequisites: BUS 311, junior standing and permission of a School of Business advisor and instructor. May not be taken pass/fail. Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 380 Advanced Legal Issues in Business
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 (C- or higher), junior standing, or permission of the instructor. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 382 International Business Law
An examination of legal issues affecting international business transactions. Topics include contracts, sale of goods, letters of credit, regulation of imports and exports, business competition law, protection of intellectual property rights, and ethical issues. Prerequisites: BUS 280 (C- or higher) or equivalent, and junior standing. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

BUS 383 Social Entrepreneurship
Focuses on the theory and practice of social enterprise using readings and case studies, and identifying and implementing social entrepreneurship Enactus projects. The projects aim to increase awareness and understanding of business and economic issues. The course will help students understand how social enterprises benefit from free market principles. Prerequisite: Junior standing (BUS majors and minors or instructor permission) Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 384 Enactus Project Leadership
Project leadership of Enactus social entrepreneurship project. Prerequisite: Sophomore standing. May be repeated for up to six credit hours. Cr 3.

BUS 385 Entrepreneurship and Venture Creation
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: Junior standing; ACC 110 (C- or higher), and BUS 260 (C- or higher), or permission. Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 386 Creative Strategies for Entrepreneurs
This course explores strategies for innovation and creative problem solving as well as a framework for entrepreneurial planning. Through experiential activities, readings, and discussions, students learn creative techniques employed by creative makers and thinkers from artists to scientists and entrepreneurs. Students apply what they have learned to generate and assess an entrepreneurial idea. Prerequisites: Junior standing, BUS 260 (recommended). Students with credit for EYE 199 (same topic) will not earn credit. Non School of Business students please see enrollment policy for eligibility. Cr 3.

BUS 388 Advanced ICE Topics
This course explores topics in Innovation, Creativity, or Entrepreneurship. Prerequisites vary but include junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 1-3.

BUS 389 Self-directed Innovation Project
This course provides prior learning credit for work completed in USM's Ci2 Studio (Creative Intelligence, Innovation Collaboration). Full tuition is a condition of Ci2 participation. Non School of Business students please see enrollment policy for eligibility. Cr 1-6.

BUS 390 Internship in Innovation, Creativity and Entrepreneurship
See BUS 395 description for requirements. Cr 3.

BUS 391 Internship in Sustainable Business
See BUS 395 description for requirements. Cr 3.

BUS 392 Internship in Marketing
See BUS 395 description for requirements. Cr 3.

BUS 393 Internship in Sport Management
(Limited to students in General Management Major, Sport Management Track – 2007 and 2008 catalogs only.) See BUS 395 description for requirements. Cr. 3.

BUS 394 Internship in International Business
See BUS 395 description for requirements. Cr 3.

BUS 395 Internship I
This is the first internship course in business administration. Prerequisites: junior standing, 2.33 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is limited to School of Business majors and minors who have not completed degree requirements. Majors are limited to a maximum of six internship credits toward the degree; minors are limited to a maximum of three internship credit hours. Cr 3.

BUS 396 Internship II
BUS 397 Internship in Sport Management/Advance Field Experience
The internship requirement is considered one of the most critical components of the Sport Management Program. Students will undertake a 12-15 week, full-time (40 hours per week) supervised internship. This opportunity is expected to enhance the student’s academic experiences via a required industry analysis paper, a research project, weekly logs and a portfolio, as well as provide additional work experience and networking opportunities. Internship experiences may take place in any of the varied sport industry settings. Students may obtain internships in any region of the country and in some cases, may receive financial compensation. Prerequisite: junior standing, BUS 311, 2.33 GPA or higher and permission of a School of Business advisor and instructor. Enrollment is normally limited to sport management (internship track) majors who have not completed degree requirements. May not be taken Pass/Fail. Cr 3.

BUS 398 Marketing Practicum
Working in self-directed teams, students carry out a marketing project to meet the goals of a partner in the business community. As part of the course, students are to generate publicity for the school and formally present the results of the project to their external partners. The course emphasizes problem-based learning and the development of professional skills. If more than 3 credits are earned, the extra credits count as general electives. Students are encouraged to take BUS 365 and BUS 369 before this course. Prerequisites: BUS 260 (C- or higher), any 300-level marketing course, GPA of 2.5 or higher, junior standing, or instructor permission. Non School of Business students please see enrollment policy for eligibility. Limited offerings. Cr 3.

BUS 399 Special Topics in Business
Prerequisites vary. Limited offerings. Cr 1-3.

BUS 415 Sport Management Seminar
This capstone sport management course is designed to integrate the academic work studied throughout the curriculum. Critique of governance issues and policy development in a range of sport organizations will be considered. Students will participate in decision making and strategic planning cases. Emphasis will focus on the strategic, profit-oriented, and ethical decision making that is necessary for upper level sport managers to be successful. Students will conduct in-depth analysis of a specific area of the field. Prerequisite: BUS 311, BUS 312, BUS 315. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

BUS 450 Business Policy and Strategy
An in-depth examination of the strategic management process in large complex organizations. This course uses case study analysis, discussion and integrative capstone projects to provide students with opportunities to learn and to apply strategic management theories and concepts. These include competitive analysis, value-chain analysis, generic business strategies, corporate strategy, and global strategy. The course fulfills the capstone requirement of the USM Core. Prerequisites: BUS 260 (C- or higher), BUS 340 (C or higher), FIN 320 (C or higher), GPA 2.0 or higher, and senior standing. Students matriculating fall 2011 and later must fulfill the University Core Requirement of “Ethical Inquiry, Social Responsibility and Citizenship” prior to enrollment. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

BUS 485 Managing the Growing Entrepreneurial Venture
An interdisciplinary course emphasizing the application of entrepreneurial management concepts and strategies to the growth-oriented small business beyond the start-up stage to eventual maturity and harvest. Topics include venture opportunity analysis, stages of small business growth, making the transition from entrepreneur to entrepreneurial manager, formulating and implementing growth strategies, building an effective organization, marshaling organizational and financial resources for growth, managing under adversity, and managing rapid growth. Prerequisites: BUS 260 (C- or higher), BUS 340 (C or higher) (or permission), FIN 320 (C or higher) or BUS 185, and senior standing. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

BUS 490 Independent Study
Selected topics in business administration may be studied and researched on an independent basis. Enrollment is normally limited to business administration degree candidates. Prerequisites: junior standing and permission of instructor and Department chair. Cr 1-6.

FIN 295 Internship in Finance
An internship course in finance. Prerequisites: sophomore standing, School of Business major, 2.5 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is normally limited to finance majors who have not completed degree requirements. Majors are limited to a maximum of nine internship credits toward the degree; this course counts for general elective credit only. Variable credit, 1-3 credits, 47 internship hours/credit hour. Repeatable up to a total of 3 credits. Pass/Fail.

FIN 320 Basic Financial Management
This course is a balanced introduction to the theory and practice of financial management. It prepares students to make basic financial decisions and understand the decisions of others. Topics include time value of money, capital markets, risk and return, stock and bond valuation, capital budgeting, capital structure, and working capital management. Prerequisites: ACC 110 (C- or higher), ECO 101 or ECO 102, MAT 210 (C- or higher) or another approved statistics course (see http://usm.maine.edu/school-of-business/stats for approved courses), and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.
FIN 321 Personal Financial Planning
This course begins to prepare students for a career as a professional financial planner by providing fundamental concepts and principles of personal financial planning, applied with a quantifiable approach to achieving client objectives. Topics include general principles of financial planning, the changing nature of the financial services environment, code of ethics and professional responsibility, credit and debt management, budgeting, personal taxes, employee benefit planning, goal attainment, investment planning, risk management through the purchase of insurance, retirement planning, and estate planning. The course will include casework and current financial planning problem scenarios. Prerequisites: FIN 320 (C or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Cr 3.

FIN 323 Financial Engineering
This course explores the markets and valuations methods for futures, options, and swaps contracts. Hedging and speculating techniques using derivatives are stressed. Financial engineering techniques are developed using derivatives which can adjust the risk and return offered by traditional assets. Topics include: Forward contracts, stock futures, interest rate futures, stock index futures, stock options, interest rate options, and swaps. Prerequisites: FIN 320 (C or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

FIN 326 Financial Modeling
Introduces principles and techniques for building and implementing financial models. Topics are drawn from a variety of areas: financial planning, investments, derivatives, and corporate finance. The course emphasizes the application of financial modeling techniques in identifying and implementing business solutions. The course will be of special interest to students seeking hands-on experience constructing financial models. Prerequisites: FIN 320 (C or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Fall only. Cr 3.

FIN 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: FIN 320 (C or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

FIN 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, balance 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: FIN 320 (C or higher) and junior standing. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

FIN 395 Internship I
The first internship course in finance is described in the general School of Business catalog text. Prerequisites: junior standing, 2.5 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is normally limited to finance majors who have not completed degree requirements. Majors are limited to a maximum of six internship credits toward the degree. Pass/fail. Cr 3.

FIN 396 Internship II
This is the second internship course in finance. Prerequisites: 2.5 GPA or higher, and permission of a School of Business advisor and instructor. May petition Department to take concurrently with FIN 395. Enrollment is normally limited to accounting and finance majors who have not completed degree requirements. Majors are limited to a maximum of six internship credits toward the degree. Credits from this course count as general electives only. Pass/fail. Cr 3.

FIN 490 Independent Study in Finance
Selected topics in the various areas of finance may be studied and researched on an independent basis. Enrollment is normally limited to accounting and finance degree candidates. Prerequisites: permission of instructor and program chair and senior standing. Cr 1-3.

FIN 399 Special Topics in Finance
Prerequisites vary by topic. Non School of Business students please see enrollment policy for eligibility. Cr 1-3.

FIN 499 Special Topics in Finance
Prerequisites vary by topic. Non School of Business students please see enrollment policy for eligibility. Cr 1-3.

RMI 295 Internship in Risk Management and Insurance
An internship course in risk management and insurance. Prerequisites: sophomore standing, School of Business major, 2.33 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is normally limited to business management majors in the risk management and insurance track who have not completed degree requirements. Majors are limited to a maximum of nine internship credits toward the degree; this course counts for general elective credit only. Variable credit, 1-3 credits, 47 internship hours/credit hour. Repeatable up to a total of 3 credits. Pass/Fail.
RMI 320 Introduction to Risk Management and Insurance
This course introduces students to the nature of risk, risk identification, general risk management techniques, and the management of risk through insurance. It covers why the individual or corporation purchases insurance, what constitutes an intelligent insurance plan, and what products are available in the insurance marketplace. This course is designed for non-majors and is a prerequisite for more advanced risk management and insurance courses. Prerequisites: sophomore standing and successful completion of the University’s Core requirement in quantitative reasoning. Non School of Business students please see enrollment policy for eligibility. Cr 3.

RMI 330 Health, Life, and Disability Insurance
This course covers health, life, and disability insurances from the perspective of insurance providers, employers, and consumers. Individual and group health insurance product management and the relationship between product characteristics and insurance company investments, financing, and marketing decisions are discussed. Managed care techniques, benefit package design, and cost sharing mechanisms are assessed in the context of resolving incentive conflicts and meeting cost-containment objectives. The basic principles underlying life insurance are covered as well as the various types and policy provisions for life insurance. Short-term and long-term disability insurance, definitions of disability, and various policy provisions for individual and employer provided group disability insurance are discussed. Evaluation of insurance company financial strength and the impact of regulation on company management and behavior are considered. Prerequisite: Junior standing and successful completion of the University’s Core requirement in Quantitative Reasoning (C- or higher). Students are encouraged to take RMI 320 before or concurrent with RMI 330. Non School of Business students please see enrollment policy for eligibility. Spring only. Cr 3.

RMI 350 Managing Risk with Property and Liability Insurance
This course examines the many commercial property and liability exposures faced by businesses. An emphasis is placed on using commercial property and liability insurance as a method of reducing, managing, and transferring business risk. Topics include commercial general liability, business automobile, workers’ compensation, commercial property, business income, and business owner’s insurance. The legal environment of property and liability insurance and risk financing are considered. The fundamental structure and business of property casualty insurance are discussed. Prerequisite: Junior standing and successful completion of the University’s Core requirement in Quantitative Reasoning (C- or higher). Students are encouraged to take RMI 320 before or concurrent with RMI 350. Non School of Business students please see enrollment policy for eligibility. Fall only. Cr 3.

RMI 395 Internship I
The first internship course in risk management and insurance is described in the general School of Business catalog text. Prerequisites: junior standing, 2.33 GPA or higher, and permission of a School of Business advisor and instructor. Enrollment is normally limited to general management majors in the risk management and insurance track who have not completed degree requirements. Majors are limited to a maximum of six internship credits toward the degree. Pass/fail. Cr 3.

RMI 396 Internship II
This is the second internship course in risk management and insurance. Prerequisites: 2.33 GPA or higher, and permission of a School of Business advisor and instructor. May petition Department to take concurrently with RMI 395. Enrollment is normally limited to general management majors in the risk management and insurance track who have not completed degree requirements. Majors are limited to a maximum of six internship credits toward the degree. Credits from this course count as general electives only. Pass/fail. Cr 3.

Graduate (Back to top)

ACC 630 Management Accounting Systems
This course examines how management accounting systems can be used to establish and maintain competitive advantages in an increasingly competitive global economy. Emphasis is on designing management accounting systems which: (1) support both the operational and strategic goals of the organization, (2) provide feedback to senior management about organizational units’ performance, and (3) serve as the linkage between the strategy of the organization and the execution of that strategy in individual operating units. A blend of contemporary theory with practical applications and actual company experiences will be utilized to accomplish the course objectives. Prerequisites: MBA 501, MBA 502. Cr 3.

ACC 631 Current Issues in Accounting
This course examines current issues and developments in the accounting profession. Coverage includes discussion of issues in auditing and assurance, financial accounting, taxation, and other relevant areas. Prerequisite: ACC 410 and ACC 413. Cr.3.

ACC 633 Taxation for Business and Investment Planning
This course provides an examination of the implications of federal income tax laws and policies for business management decisions. Coverage will include an overview of federal rules and recognition of tax planning opportunities and considerations in common business and investment transactions. Current federal and state of Maine tax policy issues will be researched, discussed and debated. Prerequisite: MBA 501 or equivalent. Cr 3.

ACC 634 Advanced Business Taxation
This course begins with concepts of Federal tax research methodology including communication of research results. The second section of the course considers corporate tax topics including income taxation of corporations, pass-through entities (S corporations and partnerships), multistate taxation and tax-exempt organizations. Students will write tax research memoranda and client letters as well as prepare relevant tax
ACC 635 Advanced Individual Taxation
This course begins with a review of Federal tax research methodology including the communication of research results. Then, the course considers topics in advanced individual taxation such as AMT issues, like-kind exchanges, and installment sales. The final section of the course considers family tax planning issues including federal estate and gift taxation and the income taxation of trusts and estates. Students will write tax research memoranda and client letters as well as prepare relevant tax returns. Prerequisite: ACC 413 or equivalent. Cr 3.

ACC 641 Advanced Financial Accounting Topics
This course explores a variety of advanced financial accounting topics such as the theoretical and practical concepts of business combinations, partnerships, foreign currency, and other issues. Prerequisite: ACC 302. Cr. 3.

ACC 691 Independent Study in Accounting
Selected topics in the areas of accounting may be studied and researched on an independent basis. Enrollment is normally limited to degree candidates concentrating in accounting. Prerequisites: permission of instructor and curriculum chair. Cr 1-3.

ACC 695 Internship in Accounting
This internship education course is described in the preceding text. Prerequisites: completion of foundation courses, 3.0 GPA or higher, and permission of instructor and curriculum chair. Enrollment is normally limited to degree candidates concentrating in accounting. A maximum of three credits of ACC 695 may be used toward the degree. Cr 1-3.

ACC 699 Special Topics in Accounting
Prerequisites vary. Cr 3.

MBA 501 Economic Analysis
An intensive survey of microeconomic theory and macroeconomic theory. Economic problems such as price and output decisions, resource allocations, inflation, and unemployment are analyzed. Cr 3.

MBA 502 Accounting Concepts
The financial accounting component of this course will focus on the meaning and value of the balance sheet, income statement, and statement of cash flows, and the roles of auditor, internal controls and ethics. The managerial accounting component will focus on cost behavior and the related topics of cost-volume-profit analysis, relevant costs, cost allocation, budgeting and performance measurement. Cr 3.

MBA 504 Probability and Statistics for Business Decision Making
An introduction to the concepts and use of probability and statistics as tools for business decision making. Cr 3.

MBA 505 Financial Management
The primary objective of this course is to provide a balanced introduction to the theory and practice of financial management. Emphasis is placed on the management of capital to enhance shareholder wealth. Topics include time value of money, risk and return, stock and bond valuation, capital budgeting, and cost of capital. Prerequisites: MBA 501, MBA 502, MBA 504. Cr 3.

MBA 611 Introduction to Organizational Change
This course focuses on understanding the nature of organizational change. Process consulting forms the basis for much of the course. Prerequisite: EDU 671 or BUS 340. Cr 3.

MBA 612 Topics in International Business
This courses is taught by professors with different specialties and consists of two parts: (1) core topics that are included every time the course is taught, and (2) coverage of other topics in international business using either: (a) a multidisciplinary approach, (b) a legal approach, or (c) a marketing approach. Prerequisites: legal approach—none; multidisciplinary approach—MBA 501; marketing approach— MBA 660. Cr 3.

MBA 615 Ethical and Legal Issues in Business
This course examines business ethics and attempts to develop practical solutions to ethical issues that confront today's global managers. This course also examines legal issues including such topics as drug testing in the workplace, an employee's right to privacy, sexual harassment, and the rights and responsibilities of officers and directors. Cr 3.

MBA 623 Financial Engineering
This course explores the markets and valuation for options, futures, and swap contracts. Hedging and speculating techniques using derivatives are stressed. Financial engineering techniques are developed that can adjust the risk and return offered by traditional assets. Cash and carry, binomial option pricing, and the Black-Scholes option pricing models are covered. Topics include: Forward contracts, stock futures, interest rate futures, stock index futures, stock options, interest rate options, and various swap contracts. Prerequisite: MBA 505. Cr. 3.

MBA 625 International Finance
This course is intended to give students a solid introduction to the very important field of international finance. It offers a rigorous examination of
and the financial management of the multinational corporation and of international financial markets. Intensive coverage of foreign exchange markets and methods of managing exchange rate risk are emphasized. Topics include currency derivative markets and risk management, arbitrage and international parity conditions, market efficiency, short- and long-term asset management, and capital budgeting. Prerequisite: MBA 505 or equivalent. Cr 3.

MBA 626 Strategic Valuation
This is the M.B.A. corporate finance course, focusing on strategic and quantitative analyses of complex, real asset investments. It prepares students for making investment decisions and evaluating investment decisions made by others. Topics include incremental cash flows, traditional capital budgeting, capital structure, required rates of return, real options, and valuation of business entities for purposes of acquisition or divestiture. Prerequisite: MBA 505. Cr 3.

MBA 627 Investment Management
An introduction to the various investment media and financial markets from the viewpoint of institutional investors. The course provides an in-depth analysis of the nature, problems, and process of evaluating securities and managing portfolios. Emphasis is placed on the structure of the securities markets, portfolio theory, and trading strategies of portfolio managers. Theoretical and empirical research addressing recent developments in portfolio management will be examined. Prerequisite: MBA 505. Cr 3.

MBA 629 Financial Modeling
Introduces principles and techniques for building financial models, in an uncertainty framework. Finance topics are drawn from a variety of areas: personal financial planning, investments, derivatives, and corporate finance. The course will integrate financial, accounting, and statistical concepts and techniques to construct financial models and to perform analyses using MS Excel. Emphasizes the application of financial modeling techniques in identifying and implementing business solutions. The course will be of special interest to students seeking more hands-on experience in constructing financial models. Prerequisite: MBA 505. Cr 3.

MBA 631 Financial Accounting
The objective of this course is to provide an understanding of financial accounting fundamentals for prospective users of corporate financial information. The course initially demonstrates the accounting process and the resulting generation of financial statements. The focus then turns to the analysis and use of financial accounting information in the evaluation of corporate performance. Emphasizes are placed on comparative accounting standards, managerial incentives, differences between income and cash flow, and basic financial statement analysis. Prerequisites: MBA 502. Cr 3.

MBA 641 New Product Development
This course reviews the fundamentals of product development and commercialization, offering students from two different disciplines the chance to explore what it takes to bring a new product to market. Students gain real world insights into the process of developing and screening an idea, testing a product concept, creating a product prototype, performing business analysis, exploring test marketing, writing a marketing plan, and bringing a product to market through the commercialization process. Prerequisite: MBA 660. Cr 3.

MBA 642 Leadership
The course integrates five perspectives of leadership: individual differences and diversity; transactional leadership; power and politics; transformational leadership; and the physical, psychological, and spiritual dimensions of leader well-being. Prerequisite: EDU 671 or BUS 340. Cr 3.

MBA 643 Creative Problem Solving
This course provides an applications-oriented understanding of the creative problem-solving process. Students will learn how to be more creative at the individual, group, and organizational levels. This course focuses on divergent and convergent creativity techniques together with various models of creativity. Prerequisite: EDU 671 or BUS 340. Cr 3.

MBA 646 Negotiation and Conflict Management
This course focuses on negotiation and conflict management theory and practice. Students are expected to develop negotiation and conflict management skills by participating in experiential exercises both inside and outside of class as well as to develop a personal negotiation and conflict management style designed to successfully meet the challenges of common conflict and negotiation situations. Cr 3.

MBA 647 Organizational Strategy
Using strategic tools such as competitive analysis and the value chain, this course provides an in-depth examination of the resource-based view of the firm. Emphasizes entrepreneurial strategy approaches in high-velocity business environments. Prerequisites: MBA 615 (or concurrent), MBA 505 and EDU 671 (or BUS 340). Cr 3.

MBA 649 Introduction to System Dynamics
An examination of how the world can be understood through dynamic processes controlled by positive and negative feedback links. A general introduction to systems thinking that draws on system dynamics, a computer-based technique for modeling systematically created problems. Requires an understanding of algebra. Prerequisite: EDU 671 or BUS 340. Cr 3.

MBA 657 Socially Responsible Business Marketing
Predictive analytics is the scientific process of predicting future probabilities and trends. It also strives to find relationships in data that may not be evident. Students will learn to critically evaluate examples from print media and the internet after learning the foundations of information visualization. Prerequisites: MBA 676. Cr 3.

MBA 675 Consumer Behavior
Examines three aspects of consumer behavior: 1) cultural, sociological, and psychological influences on consumer motivation; 2) consumer acquisition of product information and formation of attitudes; and 3) the process consumers use to make consumption decisions. Implications for marketing strategy and segmentation will be discussed and students will apply marketing research techniques to analyze consumer behavior. Prerequisite: basic marketing course or instructor permission. Cr 3.

MBA 669 Advanced Marketing Research
This course focuses on the application of multivariate statistical methods in the development of marketing strategy and the investigation of marketing problems. Building of descriptive and predictive models using multi-dimensional techniques such as factor analysis, regression analysis, cluster analysis, analysis of variance, conjoint analysis, and perceptual mapping. Use of statistical packages. Prerequisite: MBA 504. Cr 3.

MBA 670 Management Science
This course examines the role, perspective, and commonly used tools of quantitative analysis in business decision making. Emphasis is placed on developing students’ abilities to recognize the need for quantification, to formulate business problems quantitatively, to select and test computer-based decision-support system models, to collect meaningful data, and to interpret the implications of analysis results. Prerequisite: MBA 504. Limited Offerings. Cr 3.

MBA 672 Supply Chain Management
This course examines supply chain concepts and current practice in the context of just-in-time production, total quality management, and continuous productivity improvement. Using practical applications, the focus is on the proactive management of movement and coordination of goods and services, and information, from raw material to end user through the value chain. Other topics include understanding the nature of demand for goods and services within business markets and the process of building relationships with suppliers. System-oriented managerial tools, models, and techniques are considered for their value-adding potential. Directed projects of the students’ choosing are used to address specific, company-based supply-chain problem situations. Prerequisites: MBA 504. Cr 3.

MBA 674 Strategic Management of Technology and Innovation
Focuses on the strategic management of technology-based innovation in the firm. Specific topics include assessing the innovative capabilities of the firm, managing the corporate R&D function, managing the interfaces between functional groups in the development process, managing the new business development function in the firm, understanding and managing technical entrepreneurs, building technology-based distinctive competencies and competitive advantages, technological leadership versus followership in competitive strategy, institutionalizing innovation, and attracting and keeping corporate entrepreneurs. Prerequisite: MBA 504. Cr 3.

MBA 675 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 computer simulation and other quantitative tools and decision support systems to assist strategic and operational decision making. Topics include: quality management, capacity management, process design, facility location, layout, production planning, and manufacturing philosophies such as group technology, the theory-of-constraints, and just-in-time. Prerequisite: MBA 504. Cr 3.

MBA 676 Data Management and Analytics
Business analysts typically spend 80% of their time on data management and only 20% of their time on analytics. This course provides a comprehensive introduction to data management using R language, an environment for statistical computing and visualization. Knowledge of basic statistics through linear regression is helpful, but not necessary. The course assumes students have had no previous exposure to computer programming. Cr 3.

MBA 677 Information Visualization
In this course, students will learn to create charts, maps, and other visualizations to tell stories and to create effective graphical displays of evidence. Students will learn to critically evaluate examples from print media and the internet after learning the foundations of information visualization. Prerequisites: MBA 676. Cr 3.

MBA 678 Predictive Analytics
Predictive analytics is the scientific process of predicting future probabilities and trends. It also strives to find relationships in data that may not be
readily apparent with descriptive analysis. This course introduces students to quantitative forecasting of time series in a practical and hands-on fashion. Prerequisite: MBA 676. Cr 3.

**MBA 691 Independent Study**
Selected topics in the areas of business and/or administration may be studied and researched on an independent basis. Enrollment is normally limited to M.B.A. degree candidates. Prerequisites: permission of the instructor and curriculum chair. Cr 1-3.

**MBA 695 Internship**
This internship education course is described in the preceding text. Prerequisites: completion of foundation courses, 3.0 GPA or higher, and permission of the instructor and curriculum chair. Enrollment is normally limited to M.B.A. majors who have not completed their degree requirements. A maximum of three credits of MBA 695 may be used toward the degree. Cr 1-3.

**MBA 698 Practicum**
This course is organized around projects provided by organizations in the southern Maine business community. Working with a faculty coach, teams of three to five MBA students work in organizations as consultants. The student teams analyze their assigned projects and recommend courses of action. Business leaders help with the identification of problems and evaluate the team’s analysis and recommendations. In addition, students attend discussion sessions designed to allow all the teams to discuss with and seek advice from other teams. This course is usually taken in a student’s final semester. Prerequisites: MBA 611, MBA 674, and any MBA marketing course. Cr 3.

**MBA 699 Special Topics**
Prerequisites vary. Cr 3.
School of Education and Human Development Overview

Associate Dean: Mark Steege; Director of Educator Preparation: TBD; Director of Academic Administration: Kimberly Warren; Director of Center for Education Policy, Applied Research, and Evaluation: Catherine Fallon; Department of Adult and Higher Education, Counseling, and Educational Leadership Chair: Jeffery Beaudry; Department of Teaching and Learning Chair: TBD

- Administrative Office, 8 Bailey Hall, Gorham, ME 04038
- USM Admissions, Abromson Center, Portland, ME 04104-9300
- Center for Educational Policy, Applied Research, and Evaluation, 140 School Street, Gorham, ME 04038
- Office of Educator Preparation, 8 Bailey Hall, Gorham, ME, 04038
- English for Speakers of Other Languages, Portland, ME, 04104
- Professional Development Center, 8 Bailey Hall, Gorham, ME 04038
- Southern Maine Partnership, 8 Bailey Hall, Gorham, ME 04038

Faculty by Program:

**Adult and Higher Education:** Professor: Brady

**Counseling:** Associate Professors: Baruch, Bernacchio, Katsekas; Assistant Professor: De La Garza, Yasui; Clinical Lecturer: Jones; Lecturer: Rosenberg

**Educational Leadership:** Professor: Capelluti, Associate Professor: Beaudry; Assistant Professor: Stewart-McCafferty

**Educational Psychology and School Psychology:** Professor: Steege; Assistant Professors: Pratt, Wickerd

**Literacy, Language and Culture:** Professor: Fallon; Associate Professor: Stairs; Assistant Professor: Lapidus; Lecturer: Enrico

**Special Education:** Professor: Kimball; Lecturer: Red

**Teacher Education:** Associate Professors: Kuech, Ross, Whitney; Lecturer: Needleman

The School of Education and Human Development (SEHD), a division of the College of Management and Human Service, is proud to continue the strong commitment to education and service demonstrated by USM's predecessor institutions, beginning with Gorham Normal School in 1878. The School provides for the preparation and professional growth of educators and human development professionals through collaborative efforts with schools and agencies; other colleges at USM; local, state, and national educational networks; and the communities of southern Maine.

The School of Education and Human Development is composed of seven programs: Adult and Higher Education, Counselor Education, Educational Leadership, Educational Psychology and School Psychology, Literacy Education and ESL, Special Education, and Teacher Education. Through each of these programs, the School prepares professionals for teaching, counseling, school psychology, administration, and teacher leadership. The content knowledge, skills, and understandings needed for these areas form the heart of our programs. Common to all of these fields is an emphasis on connections and partnerships, reflection and critical inquiry, diversity, and performance assessment.

USM's School of Education and Human Development degree programs are accredited by the Council for Accreditation of Educator Preparation (CAEP) the Council for Accreditation of Counseling and Related Education Programs (CACREP), the Council on Rehabilitation Education (CORE), and the National Association of School Psychologists (NASP).

**Tk20 Online Data Management System for Educator Preparation Programs and Pathways**

All undergraduate and graduate students who matriculate into an Educator Preparation program or pathway in USM and are accepted as a candidate for their internship year are required to subscribe to the Tk20 online data management system. The subscription fee of $103 covers some of the expenses related to the administration and assessment of the program. For loan purposes, TK20 is eligible for consideration as part of educational costs. The subscription is a one-time payment and must be made by each student after they have passed their candidacy process and before the first semester of their internship year. Subscription instructions are posted on the Office of Educator Preparation website at [http://usm.maine.edu/educator-preparation](http://usm.maine.edu/educator-preparation).

Please note Professional Education Council Policy: In order for USM’s Education Preparation Unit program-completers to be recommended by the institution to the state for certification or licensure, the candidate must provide evidence of meeting all certification requirements including proficiency on the standards relevant to his/her state approved professional program and this evidence must be compiled and assessed within the context of the Unit’s data management system (i.e., Tk20).

**Assessment Benchmarks**

Undergraduate students in initial teacher certification pathways must submit a formal Declaration Application in Tk20 during the first year at
USM and/or before completing 45 credits. In order to start an internship, initial teacher certification students are required to complete the Candidacy Review Process. Final recommendation for certification will only be conferred upon successful completion of all program elements and State of Maine requirements.

**Teacher Education Programs**

We have a rich history of preparing teachers since the founding of Gorham Normal School in 1878. Currently, we have undergraduate pathways for early childhood, elementary and middle, and high school teaching. Our teacher education program is distinct: students learn to teach in real world settings through field experiences beginning in their first year and receive superior content preparation, earning a degree in a liberal arts or science field.

Students in the teacher education program:

1. Select a teacher certification area in early childhood (birth-age 5), elementary (K-8), secondary (7-12 English, 7-12 Mathematics, 7-12 Social Studies, 7-12 Physical Science, or 7-12 Life Science), or K-12 (art or music).
2. Pursue Core Requirements and Participate in Field Experiences
3. Select a major
4. Complete an Internship Experience

The teacher education program culminates in a year-long internship experience during which students complete their professional teacher preparation courses and student teaching in urban or suburban early childhood, elementary, middle or high schools located in southern Maine partner school districts. At the time of degree completion, students will have met the degree requirements for a major and for initial teacher certification.

The following majors have elementary teacher education pathways:

- **English**
- **Geography - Anthropology**
- **History**
- **Liberal Studies Humanities**
- **Natural and Applied Sciences**
- **Self Designed Major in STEM (science and math)**

The following majors have secondary teacher education pathways:

- **Biology**
- **Chemistry**
- **English**
- **Environmental Science**
- **Geography - Anthropology**
- **History**
- **Mathematics**
- **Natural and Applied Sciences**
- **Physics**

In addition to the teacher education program the School of Education and Human Development offers degrees and certificate programs in the following areas of study.

**Undergraduate:**

- Certificate in Athletic Coaching
- Minor in Athletic Coaching
- Minor in Educational Studies

**Graduate Programs:**

**Adult Education**

- Master of Science in Adult and Higher Education
- Post-Master’s Certificate of Advanced Study in Adult Learning

**Counseling**

- Master of Science in Counseling with concentrations in:
Clinical Mental Health

- Family Systems
- Substance Abuse Counseling Expertise Area

Rehabilitation

- Clinical Rehabilitation Expertise Area

School

- Post-Master’s Certificate of Advanced Study in Counseling
- Mental Health Rehabilitation Technician/Community Certificate

Educational Leadership

- Master of Science in Education in Educational Leadership
- Master of Science in Education: Professional Educator
- Post-Master’s Certificate of Advanced Study in Educational Leadership
- Certificate of Graduate Study in Assistant Principal

Educational Psychology

- Master of Science in Educational Psychology with a concentration in Applied Behavior Analysis
- Certificate in Applied Behavior Analysis (Post-Master’s)

Literacy, Language, and Culture

- Master of Science in Education in Literacy Education
- Master of Science in Education in Teaching English to Speakers of Other Languages (TESOL)
- Post-Master’s Certificate of Advanced Study in Literacy Education
- Post-Master’s Certificate of Advanced Study in English as a Second Language
- Certificate of Graduate Study in English as a Second Language
- Certificate of Graduate Study in Literacy

Montessori Early Childhood Education

- Master of Science in Education in Montessori Early Childhood Education

School Psychology

- Doctor of Psychology in School Psychology

Special Education

- Master of Science in Special Education, with concentrations in:
  - In-Service (for already certified teachers)
  - Pre-Service: Teaching Students with Mild to Moderate Disabilities (for initial teacher certification in 282 )
  - Integrated General Education and Special Education

- Certificate of Graduate Study in Gifted and Talented
- Certificate of Graduate Study in Teaching ALL Students

Teaching and Learning Master of Science in Education in Teaching and Learning (ETEP, TEAMS)

School-Wide Certificate Program

- Certificate of Graduate Study in Culturally Responsive Practices in Education and Human Development

Professional Licensure and Certification Notice

Students who are pursuing degrees leading to application for professional licensure or certification, and/or who will be participating in clinical placements, internships, or practica through their USM program should be aware that their host facility may require a criminal background check, fingerprinting, or drug screening. In addition, teacher education pathways and programs require that students submit evidence of their criminal history record check prior to field experiences and internships. In such situations, each student is responsible for obtaining and paying for the background check or other screening process and for delivering required documentation to the facility. Although the University will make reasonable efforts to place admitted students in field experiences and internships, it will be up to the host facility to determine whether a student will be allowed to work at that facility. Students should further be aware that a criminal record may jeopardize licensure by the state certification body. Students may consult the certification body corresponding to their intended occupation for more details. Successful completion of a
program of study at USM does not guarantee licensure, certification, or employment in the relevant occupation.

Scholarships

The School of Education and Human Development has limited tuition scholarships available for continuing SEHD students. Awards are based on academic merit, professional promise, and financial need. Recipients must be currently matriculated intending to take six or more credits per semester during the following year. Applications for graduate scholarships are available each January from the SEHD, 8 Bailey Hall, and are due March 1. Applications can also be found here: https://usm.maine.edu/school-of-education-human-development/financial-aid

Centers/Programs

The School of Education and Human Development houses the following centers:

Assessment Center

Coordinator: Garry Wickerd

The Assessment Center is a resource for SEHD faculty and students. Staffed by a graduate assistant, under the supervision of faculty from the counselor education, school psychology, and special education programs, the Assessment Center lends assessment materials to students and faculty for course assignments and training activities. The Assessment Center has a collection of over 300 achievement, behavior, cognitive, and personality tests. For additional information and hours of operation, contact the Assessment Center at 407 Bailey Hall, Gorham, ME 04038; (207) 780-5671 or (207) 780-5220; assessment.center@maine.edu.

Center for Education Policy, Applied Research, and Evaluation

Director: Catherine Fallona

The mission of the Center for Education Policy, Applied Research, and Evaluation (CEPARE) is to provide independent, not partisan research to inform education policy and practice, and to systematically identify, analyze, and continually evaluate education strategies that significantly improve education outcomes. CEPARE assists school districts, agencies, organizations, and University faculty by conducting studies on contemporary issues. In addition, CEPARE co-directs the Maine Education Policy Research Institute (MEPRI), an institute jointly funded by the Maine State Legislature and the University of Maine System. This institute was established to conduct studies on Maine education policy and the Maine public education system for the Maine Legislature.

More information can be found on the Center’s Web site at http://www.usm.maine.edu/cepare or by contacting CEPARE at the University of Southern Maine, 140 School Street, Gorham, ME 04038; (207) 780-5044.

Office of Educator Preparation

The Office of Educator Preparation is the professional education unit responsible for oversight and administration of Educator Preparation at the University. The Office of Educator Preparation is responsible for:

- Leading USM faculty in strategic educator preparation program planning at the undergraduate and graduate levels;
- Fostering the conceptual framework, core values and core practices of USM educator preparation programs;
- Managing the educator preparation assessment system;
- Coordinating field experiences, practica, and internships in collaboration with educator programs and partner schools and agencies;
- Collaborating with the Director of the Southern Maine Partnership and educator preparation program faculty to develop and maintain educator preparation partnerships;
- Coordinating state program approval for professional educator preparation and national accreditation for teacher education, including the analysis, synthesis and dissemination of data for state and national reports;
- Representing USM educator preparation in state and national projects and initiatives.
- Educator Preparation serves as liaison to Maine Department of education's offices of Certification and Higher Education on matters pertaining to certification and program approval requirements and advises program faculty as needed for compliance with state regulations.

For additional information and hours of operation contact the Office of Educator Preparation at 8 Bailey Hall, Gorham, ME 04038; (207) 780-5772; colleen.pleau@maine.edu or visit http://www.usm.maine.edu/educator-preparation
English for Speakers of Other Languages (ESOL)
Interim Director: Andrea Vasquez

Intensive English Language Program (IELP)
The Intensive English Language Program (IELP), located on the USM Portland campus, is designed to meet the English language needs of international students whose first language is not English and who wish to study at USM or other universities in the United States. The primary focus is to help students improve their skills in academic reading, writing, speaking and listening. The program also focuses on study skills and provides the cultural orientation necessary for success at the university level. Course work includes reading authentic materials, journal writing, essay writing, group work, interviews with native English speakers, pronunciation practice and TOEFL preparation. All IELP classes are taught by qualified faculty with at least a Master's Degree. Because all classes are small (10-15 students), each student receives individualized attention. All instruction is based on learning English through communicative teaching approaches and classes are highly interactive.

English Language Bridge Program (ELB)
The English Language Bridge (ELB) program is an academic support program offered through the University of Southern Maine’s English for Speakers of Other Languages (ESOL) department. Students in the ELB program are nonnative English speakers who have met USM’s admission requirements, but whose TOEFL, IELTS or SAT scores fall below the required level or who have taken ESOL courses at USM. All ELB students meet with an academic advisor to select courses which offer key elements to aid in that student’s academic success. Students in the ELB program take both ESOL and non-ESOL classes during their first semester or year at USM. Once students have completed the ELB program, they may declare a major.

Conditional Admission
International students who are seeking an undergraduate degree at USM and are academically qualified but cannot supply a TOEFL, IELTS, or SAT score may be considered for Conditional Admission. Conditionally admitted students will enroll in one or two semesters of the IELP in order to achieve language proficiency. Students admitted as conditional will be issued an I-20 with a major of “general studies”.

For a listing courses for the ESOL program click [here](http://usm.maine.edu/esol). For more information contact: (207) 780-4419, usmesol@maine.edu. Or visit: [http://usm.maine.edu/esol](http://usm.maine.edu/esol)

Professional Development Center
The Professional Development Center (PDC) is the administrative unit for outreach and professional development services of the School of Education and Human Development (SEHD). Its mission is to provide sustained, high-quality professional development that enables K-12 educators and human resource professionals to continue learning throughout their careers. The PDC works collaboratively with SEHD departments, programs, and other centers to complement their outreach missions and support coordinated efforts; the Maine Department of Education to provide resources for teacher re-certification and endorsement; K-12 schools to design and deliver professional development tailored to school district’s specific needs; human resource organizations to offer professional development opportunities for counselors, school psychologists, and adult educators; and nonprofit organizations and professional associations. The PDC works with SEHD and school partners to develop, deliver, and administer credit and noncredit courses, workshops, and conferences. To learn more about services provided by the Professional Development Center, visit the PDC web site at [http://www.usm.maine.edu/pdc](http://www.usm.maine.edu/pdc) or call (207) 780-5055. The PDC offices are located on the USM Gorham campus in 8 Bailey Hall. The mailing address is: 37 College Ave, Gorham, ME 04038.
Athletic Coaching

Certificate in Athletic Coaching

Description

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.

Program Requirements

A certificate will be presented to students completing the minimum 18-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. For more information about this program please call Karl Henrikson at (207) 780-5432 or e-mail karl.henrikson@maine.edu

Course of Study in Athletic Coaching (18-credit program)

Required (12 credits)
- PHE 203 Athletic Training for Coaches
- PHE 302 Coaching Philosophy and Fundamentals
- PHE 314 Organization and Administration of Athletics
- PHE 391 Field Experience

Electives (6 credits)
- PHE 106 NCAA Life Choices
- PHE 198 Physiology of Health Fitness
- PHE 303 Coaching and Officiating Basketball
- PHE 309 Coaching and Officiating Track and Field
- PHE 311 Coaching and Officiating Soccer
- PHE 312 Coaching and Officiating Football
- PHE 315 Coaching and Officiating Field Hockey
- PHE 316 Coaching and Officiating Volleyball
- PHE 335 Coaching and Officiating Baseball and Softball

Minor in Athletic Coaching

Description

This minor 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. The minor helps to prepare students to begin a career in coaching with a solid base of philosophy, sport specific knowledge, and practical experiences. Students have the opportunity to learn first-hand from seasoned coaches and then move on to apply their knowledge through field experiences and internships with local programs. Students may take courses as electives or as part of the certificate program. For more information about this minor, please contact the Athletic Department.

Program Requirements
Upon completion of the 18 credit minor a certificate will be presented to students. In addition, a notation will be made on the student's transcript indicating proficiency in the area of athletic coaching as determined by the minor.

Required Courses (12 credits)

PHE 203 Athletic Training
PHE 302 Coaching Philosophy and Fundamentals
PHE 314 Organization and Administration of Athletics
PHE 391 Field Experience

Elective Courses (6 credits)

(3 credits or more from the electives below)

CON 216 Emergency Response OR
REC 218 Wilderness Emergency Response
PHE 303 Coaching Basketball
PHE 309 Coaching Track and Field
PHE 311 Coaching Soccer
PHE 312 Coaching Football
PHE 315 Coaching Field Hockey
PHE 315 Coaching Volleyball
PHE 335 Coaching Baseball and Softball

Additional Elective Courses

BUS 312 Sport Law
PHE 106 NCAA Life Choices
PHE 198 Physiology of Health Fitness
REC 224 Inclusive Leisure Services
SPM 230 Psychology of Physical Activity and Sport

Course List

Click here to view catalog course descriptions.
Extended Teacher Education Program (ETEP)

Accelerated Pathway to M.S.Ed. in Teaching and Learning (ETEP)

The Accelerated ETEP Pathway allows USM undergraduate students with an interest in teacher certification to have courses taken in their undergraduate sequence apply toward the graduate degree in Teaching and Learning (ETEP). This allows for exposure to education related courses over multiple years and a reduced course load during the intensive internship year.

- Requirements
- Admissions

Requirements at the undergraduate level:

Recommended Courses and Core

- HRD 200 Human Growth and Development (Sociocultural Analysis)
- EDU 310 Purpose of Schools in a Democracy (Ethical Inquiry/International) or ADS 300 Ethics & Youth w/Exceptionalities (Ethical Inquiry)

Required Courses (6 credits)

- SED 335 Students with Exceptionalities in General Education (Core Diversity)
- SED 420 Multi-tiered Systems of Educational Support

Apply for Accelerated pathway prior to enrolling in any 500 level courses.

Requirements at the graduate level (ETEP):

Required Graduate Courses

Elementary (K-8) (36 credits)

- EDU 505 Teaching Mathematics K-8
- EDU 543 Professional Internship in Elementary Education (6 credits)
- EDU 546 Planning and Assessment for Proficiency-Based Learning I
- EDU 547 Planning and Assessment for Proficiency-Based Learning II
- EDU 551 Teaching Social Studies K-8
- EDU 552 Teaching Science K-8
- EDU 562 Linguistic and Cultural Diversity in the Classroom
- EDU 565 Teaching Reading for All Students Including Those with Diverse Abilities and Backgrounds
- EDU 566 Teaching Writing for All Students Including Those with Diverse Abilities and Backgrounds

Secondary (7-12) and World Language (K-12) (33 credits)

- EDU 514 Improving Teaching in Content Areas Through Literacy for All Students Including Those with Diverse Abilities and Backgrounds
- EDU 521 Digital Literacies and Education
- EDU 546 Planning and Assessment for Proficiency-Based Learning I
- EDU 547 Planning and Assessment for Proficiency-Based Learning II EDU 652 Curriculum Evaluation and Design for Secondary Education
- EDU 550 Professional Internship in Secondary Education (6 credits)
- EDU 562 Linguistic and Cultural Diversity in the Classroom

Content Area Methods Courses: One of the following (3 credits)

- EDU 501 Secondary Science Methods
- EDU 502 Secondary English Methods
- EDU 503 Foreign Language Methods
- EDU 504 Secondary Social Studies Methods
EDU 554 Secondary Mathematics Methods

Recommendation for initial teacher certification made after successful completion of the courses above, additional two courses below complete the Master's degree.

- EDU 600 Research Methods
- EDU 643 Inquiry in Education (may be substituted with SED 699 Directed Study in Special Education, or EDU 667 Professional Educator Capstone)

36 credits K-8 initial teacher certification and a Master’s degree.

33 credits 7-12 initial teacher certification and a Master's degree

Admissions:

Application Requirements and Instructions for Accelerated ETEP Pathway

Deadline: Submission of applications is strongly recommended by December 1 but also accepted through January 30 of a given year.

Submit the following:

1. **Accelerated ETEP Pathway application.** Application to the pathway must be submitted while completing 300 or 400 level courses, and prior to taking any 500 level course. You cannot be accepted until after the completion of SED 335.
2. Submit the accelerated pathway application via the Tk20 Assessment System.
3. **Free Admissions Account and Application in Tk20.** In addition to the materials listed below, you must also complete a free Tk20 Admissions Account and Application in order for your accelerated pathway application to be reviewed. The link to the instructions can be found here.
4. **Praxis Core scores.** Take and pass per Maine State Guidelines all three parts of the Praxis Core: Reading 156, Writing 162, Math 150, or a composite of 468 with no section being 3 points lower than the cut off.
5. **Three Recommendations:** one from field placement supervisor/mentor, education professor, and major professor, each with a separate form for recommendation
6. **Résumé** showing history of employment, education, and community service.
7. **Essay** - a brief essay (2-3 pages) that responds to the following prompt: *The challenge of teaching is helping to ensure ALL students are learning. What would a school look like that provides all students equal opportunity to learn? What practices to ensure ALL students are learning have you seen, know of, been a part of, or been inspired to emulate?*
8. **Catalog of Experiences** (2 to 3 pages): Provide an annotated list of experiences particularly significant in your development as a learner and prospective teacher. Applicants should:
   - Describe your experiences working with children and/or adolescents
   - Describe events that have deepened your understanding of the content area(s) you may teach
   - Reflect critically on what you have gained from those experiences, both personally and professionally.

Admission to the MS.Ed. in Teaching and Learning (MSED) for Accelerated ETEP Pathway students:

- Students will apply to the MS.Ed in Teaching and Learning (ETEP) program using the standard graduate admission application upon satisfactory completion of the BA degree requirements, and have maintained a GPA of 3.0 for courses in the program, with grades no lower than a C in the following courses: SED 335 & SED 420. The graduate application can be found here: https://www.applyweb.com/usmaine/
- Recommendations, Resume, Essay, Catalog of Experiences, and passing Praxis CORE scores from the Accelerated ETEP Pathway application will be used as part of the submission requirements of the graduate admission application.
- Students will become fully matriculated in the MS.Ed. in Teaching and Learning (ETEP) program once all conditions for admission have been met.

Scholarships: There are scholarships for education students and we highly suggest you apply for them, while applying to the program, or afterwards. http://usm.maine.edu/sehd/financial-aid

Course Descriptions

Click here to view catalog course descriptions.
Course Descriptions

Click here to view catalog course descriptions.
Elementary Teacher Education

The Elementary Teacher Education Program is designed to prepare elementary school teachers, grades K-8, who are knowledgeable of the content they will teach and who have the skills to apply that knowledge to teaching. Elementary education students major in the discipline they plan to teach and take a series of teacher education courses that fulfill their University Core Curriculum requirements and the requirements for teacher certification in their discipline. These courses introduce students to aspects of teaching and learning and give them hands-on experiences in community agencies and schools where they can connect what they are learning to the real world. At the time of degree completion, students will have met the degree requirements for a major and for initial teacher certification.

Program Declaration and Withdrawal

All students must formally declare their entry into a teacher education program by completing the Declaration and/or Dropping of Undergraduate Teacher Education Pathway Form with the registrar’s office. The form is located in the forms section of the Office of Registration and Scheduling Services: https://usm.maine.edu/sites/default/files/teacher-education/TE-Pathway-Declaration-Form-fillable.pdf

Academic Requirements

The minimum academic requirements to be a student in good standing in the elementary education program are as follows:

- A grade of C or better in all University Core and major coursework.
- A grade of B or better in all professional education coursework.
- An overall GPA of 3.0 or better.

Failure to maintain the above requirements may result in program dismissal.

Pre-Candidacy

Upon declaring the elementary teacher education program, a student becomes a pre-candidate. The pre-candidacy phase of the program is the first three years of the program prior to the professional internship. Pre-candidacy coursework is as follows:

Recommended

- EYE 108: Culture, Identity and Education (3 cr)
- EDU 100: Exploring Teaching* (3 cr)
- ADS 300: Ethics and Youth with Exceptionalities (3 cr)

Required

- HRD/SBS 200: Multicultural Human Development (3 cr)
- EDU 305: Foundations of Cultural and Linguistic Diversity* (3 cr)
- EDU 310: Purpose of Schooling in a Democracy* (3 cr)
- SED 335: Students with Exceptionalities in General Education* (3 cr)

Each of the courses with a * includes required service learning or practicum hours in a school or community setting to give students hands-on, real world experience. Students complete these experiences in community and school partner settings and are arranged by the Field Experience Coordinator in the Office of Educator Preparation. The other education courses may require observation experiences in field settings that students arrange on their own.

Candidacy

Candidacy takes place in the spring semester of the third year or when a student has completed the pre-candidacy teacher education coursework and has made satisfactory and sufficient progress in their major. It is the process students go through in order to be admitted to the professional level courses and internship. To be eligible for candidacy, students must be in good academic standing, have passed the Praxis Core, and provided evidence of their Criminal History Record Check.

Please see USM’s Professional Licensure and Certification Notice located on the Office of Registration and Scheduling website: https://usm.maine.edu/registration-services/academic-policies-undergraduate
Students are required to complete and show documentation of the fingerprinting process outlined by the Maine Department of Education: http://www.maine.gov/doe/cert/fingerprinting.

Students must complete the Candidacy application in TK20 and provide a current resume and three letters of recommendation from a field experience host teacher, from a professor in the student’s major, a faculty advisor, and an education professor. The candidacy application is due on January 31 of each year. Upon review eligible students will be invited to participate in a 30 minute internship admission interview.

Professional Internship

The professional internship is a full year experience that fulfills the state’s student teaching requirement and provides elementary education teacher candidates the opportunity to apply what they are learning in their teacher education courses. The first semester internship is the equivalent of a 2.5 day per week in a partner school district, and the second semester internship is a full time, five days per week experience in a partner school. Students take the internship courses concurrently. Required courses are as follows:

- SED 520: Multi-Tiered Systems of Educational Support (3 cr)
- EDU 546: Planning and Assessment for Proficiency-Based Learning – I
- EDU 547: Planning and Assessment for Proficiency-Based Learning – II
- EDU 552: Teaching Science K-8 (3 cr)
- EDU 505: Teaching Mathematics K-8 (3 cr)
- EDU 551: Teaching Social Studies K-8 (3 cr)
- EDU 565: Teaching Reading K-8 for All Students Including those with Diverse Abilities and Backgrounds
- EDU 566: Introduction to Writing Process for All Students Including those with Diverse Abilities and Backgrounds
- EDU 543: Professional Internship in Elementary Education (9 cr total--3 credits first semester and 6 credits second semester)

Majors

The following majors have elementary teacher education pathways:

- English
- Geography - Anthropology
- History
- Liberal Studies Humanities
- Natural and Applied Sciences
- Self Designed Major in STEM (science and math)

Please see each major’s section of this catalog for their requirements.

Content Requirements

For those students interested in teaching at the elementary level (grades K-8), they must complete 6 credits each in English, mathematics, science and social studies. Those interested in teaching at the middle level (grades 6-8), it is recommended that they complete coursework in a second content area (e.g., English, mathematics, social studies or science) to become highly qualified to teach an additional content area. Finally, students should consider taking education courses that will support them to become better teachers including, but not limited to, topics such as literacy, technology, understanding and collaborating with families.

Candidacy Requirements

In order to be eligible for internship, students must successfully complete the candidacy process. Students must apply for candidacy through TK20 by creating a free Tk20 account and completing a candidacy application. In addition to the above academic requirements, students must submit three letters of recommendation and passing scores on the Praxis Core and participate in candidacy interview

TK20

Once they are accepted as a candidate for their internship year, students are required to subscribe to the Tk20 online data management system. The subscription fee of $103 covers some of the expenses related to the administration and assessment of the program. For loan purposes, Tk20 is eligible for consideration as part of educational costs. The subscription is a one-time payment and must be made by each student after they have passed their candidacy process and before the first semester of their internship year. Subscription instructions are posted on the Office of Educator Preparation website at http://usm.maine.edu/educator-preparation/tk20.

Recommendation for Certification

Graduates who successfully complete all the teacher education program requirements are eligible for recommendation for teacher certification in
Maine. In order to be recommended for certification, students must complete the Recommendation for Certification form. Students who fail to meet the academic or professional teacher education program requirements or choose not to pursue teacher certification may withdraw from the teacher education pathway and graduate with their major.

NOTE--Course requirements are subject to change based upon changes in teacher certification regulations.

Secondary Teacher Education

The Secondary Teacher Education Program is designed to prepare early middle and high school teachers, grades 7-12 or K-12 foreign language teachers who are knowledgeable of the content they will teach and who have the skills to apply that knowledge to teaching. Secondary education students major in the discipline they plan to teach, take a series of teacher education courses that satisfy their University Core Curriculum requirements, and fulfill the requirements for teacher certification in their discipline. These courses introduce students to aspects of teaching and learning and give them hands-on experiences in community agencies and schools where they can connect what they are learning to the real world. At the time of degree completion, students will have met the degree requirements for a major and for initial teacher certification.

Program Declaration and Withdrawal

All students must formally declare their entry into a teacher education program by completing the Declaration and/or Dropping of Undergraduate Teacher Education Pathway Form through the registrar’s office. The form is located in the forms section of the Office of Registration and Scheduling Services: https://usm.maine.edu/sites/default/files/teacher-education/TE-Pathway-Declaration-Form-fillable.pdf

Academic Requirements

The minimum academic requirements to be a student in good standing in the secondary education program are as follows:

- A grade of C or better in all University Core and major coursework.
- A grade of B or better in all professional education coursework.
- An overall GPA of 3.0 or better.

Failure to maintain the above requirements may result in program dismissal.

Pre-Candidacy

Upon declaring the secondary teacher education program, a student becomes a pre-candidate. The pre-candidacy phase of the program is the first three years of the program prior to the professional internship. Pre-candidacy coursework is as follows:

Recommended

EYE 108: Culture, Identity and Education (3 cr)

EDU 100: Exploring Teaching* (3 cr)

ADS 300: Ethics and Youth with Exceptionalities (3 cr)

Required

HRD/SBS 200: Multicultural Human Development (3 cr)

EDU 305: Foundations of Cultural and Linguistic Diversity* (3 cr)

EDU 310: Purpose of Schooling in a Democracy* (3 cr)

SED 335: Students with Exceptionalities in General Education* (3 cr)

Each of the courses with an * includes required service learning or practicum hours in a partner school or community setting to give students hands-on, real world experience. These experiences are arranged by the Field Experience Coordinator in the Office of Educator Preparation. The other education courses may require observation experiences in field settings that students arrange on their own.

Candidacy
In order to be eligible to take the content methods course and enroll in internship, students must successfully complete the candidacy process. Candidacy takes place in the spring semester of the third year or when a student has completed the pre-candidacy teacher education coursework and has made satisfactory and sufficient progress in their major. It is the process students go through in order to be admitted to the professional level courses and internship. To be eligible for candidacy, students must be in good academic standing, have passed the Praxis Core, and provided evidence of their Criminal History Record Check.

Please see USM’s Professional Licensure and Certification Notice located on the Office of Registration and Scheduling website: https://usm.maine.edu/registration-services/academic-policies-undergraduate

Students are required to complete and show documentation of the fingerprinting process outlined by the Maine Department of Education: http://www.maine.gov/doe/cert/fingerprinting.

Students must complete the Candidacy application in TK20 and provide a current resume and three letters of recommendation from a field experience host teacher, from a professor in the student’s major, and from an education professor. The candidacy application is due on January 31 of each year. Upon review eligible students will be invited to participate in a 30 minute internship admission interview.

Professional Internship

The professional internship is a full year experience that fulfills the state’s student teaching requirement and provides secondary education teacher candidates the opportunity to apply what they are learning in their teacher education courses. The first semester internship is the equivalent of a 2.5 day per week in a partner school district, and the second semester internship is a full time, five days per week experience in a partner school. Students take the internship courses concurrently.

Required:

SED 520: Multi-Tiered Systems of Educational Support (3 cr)
EDU 546: Planning and Assessment for Proficiency-Based Learning – I (3 cr)
EDU 547: Planning and Assessment for Proficiency-Based Learning – II

• Content Area Methods Course-one of the following (3 cr)

EDU 501 Secondary Science Methods
EDU 502 Secondary English Methods
EDU 503 Foreign Language Methods
EDU 504 Secondary Social Studies Methods
EDU 554 Secondary Mathematics Methods

• EDU 550: Professional Internship in Secondary Education (9 cr total—3 credits first semester and 6 credits second semester)

Recommended:

• EDU 514 Improving Teaching in Content Areas Through Literacy for All Students Including Those with Diverse Abilities and Backgrounds
• EDU 521 Digital Literacy

Majors

The following majors have secondary teacher education pathways:

• Biology
• Chemistry
• English
• Environmental Science
• Geography - Anthropology
• History
• Mathematics
• Natural and Applied Sciences
• Physics
Content Requirements

Secondary teacher education students (grades 7-12) need a minimum of twenty-four credit hours in the content areas they plan to teach. For those interested in teaching at the middle level, it is recommended that they complete coursework in a second content area (i.e., English, mathematics, social studies or science) to become highly qualified to teach an additional content area. Finally, students should consider taking education courses that will support them to become better teachers including, but not limited to, topics such as literacy and technology.

TK20

Once they are accepted as a candidate for their internship year, students are required to subscribe to the Tk20 online data management system. The subscription fee of $103 covers some of the expenses related to the administration and assessment of the program. For loan purposes, TK20 is eligible for consideration as part of educational costs. The subscription is a one-time payment and must be made by each student after they have passed their candidacy process and before the first semester of their internship year. Subscription instructions are posted on the Office of Educator Preparation website at http://usm.maine.edu/educator-preparation/tk20.

Recommendation for Certification

Graduates who successfully complete all the secondary teacher education program requirements are eligible for recommendation for teacher certification in Maine. In order to be recommended for certification, students must complete the Recommendation for Certification form. Students who fail to meet the academic or professional teacher education program requirements or choose not to pursue teacher certification may withdraw from the teacher education pathway and graduate with their major.

NOTE--Course requirements are subject to change based upon changes in teacher certification regulations.

Minor in Educational Studies

Description

The Educational Studies Minor provides students who are interested in education, experience and knowledge of the philosophical, psychological and practical facets of this field of study. The minor is a total of 18 credits, nine of which must be chosen from the following list. The Educational Studies Minor courses meet many of the Core Curriculum requirements, including the Thematic Cluster. Important: The Minor in Educational Studies does NOT lead to teacher certification.

Program Requirements

Required Courses

EDU 100* Exploring Teaching as a Profession Or
EYE 108 Culture Identity, and Education
HRD 200* Multi-Cultural Human Development (meets Socio-Cultural Analysis requirement)
SED 335* Students with Exceptionalities in General Education

Choose 3 of the following:
ADS 300* Ethics and Youth with Exceptionalities (EISRC course)
EDU/AED 230 Teaching Through the Arts
EDU 300 Educational Media and Technology
EDU 310* What is the Purpose of Education in a Democracy? (meets ESIRC and International requirement)
EDU 305* Foundations of Cultural and Linguistic Diversity (meets Diversity requirement)
EDU 336 Children's Literature
SED 420* Multi-Tiered Systems of Educational Support

* These courses include a field experience component.
SEHD Course Descriptions

SEHD Course Descriptions

- Undergraduate
  - ADS (Special Education)
  - ECE (Montessori)
  - ECU (Education)
  - ESL (English for Speakers of Other Languages)
  - HRD (Human Development)
  - PHE (Athletic Coaching)
  - SED (Special Education)
  - SPY (School Psychology)
- Graduate
  - ECE (Montessori)
  - ECU (Education)
  - HCE (Counseling)
  - HRD (Adult and Higher Education)
  - SED (Special Education)
  - SPY (School Psychology)

Undergraduate

ADS 300 Ethics and Youth with Exceptionalities
There are two major outliers when discussing youth: youth with disabilities and youth who are gifted and talented. In addition, there is a fascinating subset of these two groups, which is youth who are dually exceptional, having both a disability and gifts and talents. Through the use of case studies and court decision analysis, panel discussions, and reflections this course will focus on these three groups of youth and how they are marginalized in general society, and in educational settings. This course will explore why and how these youth are marginalized and how the marginalization of them is continued in mainstream society and by others, many times unconsciously. This course requires a four-hour field placement working with youth with exceptionalities. Cr 3.

ADS 400 Disabilities Studies Seminar
This course will explore, in depth, an area of disability studies and each student will conduct their own capstone project. The capstone projects will be conducted with peer support throughout the process. Prerequisite: ADS 300 or instructor permission. Cr 3.

EDU 100 Exploring Teaching as a Profession
An introduction to the study of education and teaching, this course provides opportunities for students to examine and evaluate their interest in and aptitude for a career in teaching. The structure of the course combines faculty-directed seminars with coordinated field-based experiences in school settings. In addition to examining and reflecting upon their field-based classroom experiences in their seminar sessions, students will examine the following topics: current initiatives and issues in education and teaching, the diverse needs of students, the multiple roles of teachers, the professional and ethical expectations of teachers, school curriculum, culture and organization, and teacher certification programs and professional development options. Part of the course will be field based school experiences. Cr 3.

EDU 230 Teaching Through the Arts
This course focuses on integrating art-based teaching and learning across the p-12 curriculum. It will give insight to comprehending a visual language in both students and teachers, by using developmentally appropriate art practices, which foster creative connections and studio habits of mind. This course requires arts-based field experiences to be arranged during the semester. Prerequisite: EYE course. 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 305 Foundations of Cultural and Linguistic Diversity
This course supports students in exploring and critically analyzing topics, themes, and issues related to cultural and linguistic diversity and helps them build a strong theoretical and practical foundation for becoming successful multicultural educators. 12 hours of fieldwork will be required. Prerequisite: HRD 200: Multicultural Human Development. Cr 3.

EDU 310 What is the Purpose of Schooling in a Democracy?
This course explores the role of public schooling in the United States and world with respect to ethical dimensions of equity and justice. Using a framework of education rights for a democracy, students analyze ethical dilemmas found in texts, videos, and personal stories, engage in multicultural field experiences, and present grounded perspectives in response to the question in the course title. A 12 hour field placement is required for this course. Prerequisites: any EYE, ENG 100 or ENG 104. Cr 3.
EDU 323 Independent Study in Teacher Education
This course provides students the opportunity to pursue a project independently, planning and exploring an area of interest within the field of teacher education. Most independent study projects are library based; all are intellectually sound and reflect a high caliber of performance. Specific content and methods of evaluation are determined in conjunction with the instructor. An approved proposal is a necessary prerequisite to registration. Prerequisite: matriculation in an education program and junior or senior standing. Cr 1-3.

EDU 324 Student Teaching
For students matriculated in a USM undergraduate teacher education program in music education, technology education, or art education, a supervised student teaching experience of one full semester, carried out in an off-campus field setting, is required. Students must have met their program's requirements to register for student teaching. Prerequisites: vary according to major. This course requires health insurance. Cr 12.

EDU 336 Children's Literature
This course is 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 479 Cultural Understanding through Study Abroad
The main focus of this course, through a study abroad component and pre abroad meetings and study, is for students to experience what it is like to be immersed in a country and culture they do not know, and relate their new insight to their professional work in the U.S. By creating understanding through real life experiences and learning about individual immigration experiences in the U.S., professionals will develop understanding, empathy, and insight into working with individuals who come from another country or who come from a strong ethnic cultural background within the U.S. Cr 6.

ESL 006/016 Intensive Grammar
This course (3-4 sections) focuses on building a stronger foundation in the grammatical and editing skills necessary for more natural and accurate English, both oral and written. Through a series of grammatical exercises, meaningful drilling, and analysis of the structure of the English language, students will become more adept at producing a wider variety of language with a higher knowledge of use and form. The course will not only introduce new structures in language but also review and expand upon those already learned. (The credit for this course does not apply toward a baccalaureate or an associate’s degree.) Prerequisite: instructor permission. Cr 1.5.

ESL 007/017 Listening and Oral Communication/US Culture
This course (2 sections) focuses on cultural awareness and US culture as well as the improvement of the listening and oral skills that are necessary for the university classroom. The primary goals of the course are to introduce students to various aspects of US culture and intercultural communication via oral discussions and listening activities. Additional goals are to assist students in achieving comprehensible pronunciation and gaining confidence in listening comprehension and speaking skills. Students will also be exposed to a wide variety of vocabulary and grammatical structures in context. (The credit for this course does not apply toward a baccalaureate or an associate degree.) Prerequisite: instructor permission. Cr 1.5.

ESL 008/018 Reading, Writing & Vocabulary
This course (4-5 sections) focuses on the improvement of the reading and writing skills that are necessary for the university classroom. The readings are from authentic sources and promote use of strategies for writing short reaction papers, summaries, and essays which are based on these readings. Informal journal writing is an integral part of the course. Students will also be exposed to a wide vocabulary and systematic overview of grammatical structure. (The credit for this course does not apply toward a baccalaureate or an associate degree.) Prerequisite: instructor permission. Cr 1.5.

ESL 009/019 Intensive Reading and Speaking Fluency
Intensive Reading and Speaking Fluency (2 sections) focuses on improving students’ fluency in both reading and speaking while learning about topics in United States culture, history and current events. Emphasis is on developing speed and comprehension in reading and listening to material drawn from texts, news sources, film and popular culture. Students will learn strategies for speaking in front of a group, compensating for accent, and conducting informational interviews. (The credit for this course does not apply toward a baccalaureate or associate degree.) Prerequisite: instructor permission. Cr 1.5.

ESL 098 Admissions Pathway Program Level I: Intermediate/Advanced Grammar and Writing
This is an intermediate/advanced-level English language course for Admissions Pathway Program (APP) students whose first language is not English. APP students will improve their skills in listening, speaking, reading, and writing. Emphasis is on understanding the meaning, use, and form of common grammar structures needed for academic writing. Students will have a basic knowledge of English grammar, but will need more work on accurate production of English, both oral and written, through a series of grammatical, written, and oral exercises. This course prepares students for the more advanced ESL 102. (The credit for this course does not apply toward a baccalaureate or associate degree.) Prerequisite: instructor permission. Cr 3.

ESL 099 Intermediate Reading, Writing, and Vocabulary
This is an intermediate-level English language course for students whose first language is not English. This is a developmental ESL course designed to help students compose fluent and accurate writing as used in academic settings. Students will develop a greater sense of confidence in
using written English as a method of communication. Emphasis will be placed on achieving unity and coherence in written compositions and on understanding the mechanical aspects of the essay. Students will learn to read for meaning and to analyze authentic texts. Through reading, writing, and specific exercises, students will expand their grasp of vocabulary and idiom needed for academic work and progress into ESL 103. (The credit for this course does not apply toward a baccalaureate or an associate degree.) Prerequisite: instructor permission. Cr 3.

ESL 100 College Writing
This is a section of College Writing (ENG 100) which is intended for multilingual writers and/or non-native speakers of English only. Students read expository writing from diverse sources, engage in critical thinking, and utilize the writing process to compose essays and summaries. Coursework includes significant opportunities to improve grammar and usage, build academic vocabulary, and practice techniques involved in conducting secondary research, including using databases and MLA documentation. Successful completion of ESL 100 fulfills the College Writing CORE requirement and is the final course in the Admissions Pathway Program (APP)sequence. Prerequisites: ESL 104 & ESL 102 or college readiness in writing. Cr 3.

ESL 102 Admissions Pathway Program Level II: Advanced Grammar and Writing
This is an advanced-level English language course for APP, multilingual writer students that focuses on building a stronger foundation of grammatical skills that will aid students in producing more natural and accurate writing skills in the English language. Emphasis is placed on understanding and using advanced grammar structures needed for academic writing and discussion at the university level. Through a series of grammatical exercises, meaningful drilling, both written and oral, short essay writing, and analysis of the structure of English, students will improve their academic writing and editing skills. Prerequisite: ESL 98 or instructor permission. Cr 3.

ESL 103 Admissions Pathway Program Level I: Intermediate/Advanced Reading, Writing, and Vocabulary
This is a mid-advanced-level English language course for APP, multilingual writer students that focuses on helping students produce grammatical, well-constructed, coherent English, in both written and spoken form. Based on the writing process, students will write and rewrite paragraphs and essays drawn from topical and academic reading, works of fiction, and class discussion. Students learn to read and analyze for content and style a variety of authentic works of fiction and non-fiction. A strong focus will be on enhancing the students’ academic vocabulary. Prerequisite: ESL 99 or instructor permission. Cr 3.

ESL 104 Admissions Pathway Program Level II: Advanced Reading, Writing, and Vocabulary
This is an advanced-level English language course for APP, multilingual writer students that focuses on fine-tuning their reading and writing skills prior to taking College Writing. Much of the work done in this class will focus on reading academic literature, fiction and non-fiction, as well as on mastering the academic writing skills necessary for university work. Additional focus will be on vocabulary extension and the use of idiom. Students will be required to write short essays, keep a written journal, and make oral presentations in class. Prerequisite: ESL 103 and ESL 098 or instructor permission. Cr 3.

HRD 200 Multicultural Human Development
This course introduces developmental theory and research that encompasses the entire lifespan. Emphasis will be on prenatal development through adolescence, with an overview of adult development. A multi-disciplinary and multicultural view of human development will be taken by examining theories from a socio-cultural context and in consideration of change as well as stability throughout the life cycle. The interaction of hereditary, environmental, and socio-cultural factors will be considered in studying physical, cognitive, and psychosocial development. Prerequisite: Second semester freshmen or above; must have completed College Writing and EYE course. Cross-listed with SBS 200. Cr 3.

HRD 310/510 Aging and the Search for Meaning
This course explores psychosocial and spiritual aspects of successful human aging. Multidisciplinary perspectives on aging will be examined including historical, psychological, sociological, cultural and religious. Learners will discuss key issues related to aging and the search for meaning through the lens of various genres (e.g., research, theory, fiction) as well as their own personal experiences. Prerequisite: HRD 310 students will be expected to have taken one college-level writing course and one sociology or psychology course. Cr 3.

HRD 312 The Spiritual Challenges and Opportunities of Aging
This course explores the dynamic role spirituality plays in navigating the aging process. Within a holistic context spirituality provides a frame of reference for understanding both who we are and how we fit into the world around us. Learners will develop a basic frame of reference for the nature of spiritual experience, including theory of adult spiritual development. But given the subjective nature of spirituality, it will be important for learners to develop tools for assessing the role spirituality plays in providing meaning for people as they age as individuals. Learners will begin this process by examining their own spiritual journey from psychosocial, cultural and religious perspectives. They will then use a parallel process to interview an older individual and assess the role spirituality plays in their aging process. Prerequisite: HRD 312 students will be expected to have taken one college-level writing course and one sociology or psychology course. Cr 3.

HRD 337 Peer Leadership Seminar
This course is intended for students who participate in organized student leadership programs or are interested in learning more about leadership within higher education organizations. The course examines the nature of higher education organizations, leadership theory, college student development theory, as well as both interpersonal and group communication skills. Through written and oral projects students learn how to integrate theory with practice. Assignments and projects draw their focus from the individual's particular interests regarding student leadership. Cr 2.
PHE 106 NCAA Life Choices
This course is designed for student athletes in their first or second year at USM. The goal of the course is to enable students to develop their academic potential and to realize their personal and athletic goals during their college experience. Through large and small group work, topical readings, and community service projects, students will clarify goals, values, healthy lifestyles, leadership, and study skills. Prerequisite: open to first- and second-year students only. Cr 3.

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
This introductory course in sports medicine/athletic training will provide the student with information about prevention and management of sports-related injuries. The course is geared toward individuals involved in or pursuing allied health professions as well as coaching or teaching fields. Pertinent anatomy and common injuries will be discussed. This course will also include topics prescribed by the American Red Cross including respiratory emergencies, artificial respiration, wounds, poisoning, water accidents, drugs, burns, sport safety issues, and CPR. Successful completion will result in First Aid & CPR/AED certification. 3 cr.

PHE 302 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.

PHE 303 Coaching and Officiating Basketball
Coaching philosophy, coaching style, choosing a team, individual fundamentals, team play development, and the ability to organize and maintain a quality program will be stressed. The course will also cover rules of basketball and techniques of officiating. Cr 3.

PHE 309 Coaching and Officiating Track and Field
Part of the University of Southern Maine's coaching certification program, this course is designed to prepare students for track and field, and cross country coaching at the high school and/or middle school levels. Particular aspects of the sport will not be discussed in detail. Rather, the course is intended as an overview of coaching philosophies, sports science, and the training required for each event. Students will have an opportunity to explore areas of interest in depth. Cr 3.

PHE 311 Coaching and Officiating Soccer
The course will cover individual techniques and team tactics, drills to implement these techniques and tactics, practice and season organization and methods of starting, maintaining and improving programs at various levels. The course will also cover rules of soccer and techniques of officiating. Cr 3.

PHE 312 Coaching and Officiating Football
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. The course will also cover rules of football and techniques of officiating. Cr 3.

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.

PHE 315 Coaching and Officiating Field Hockey
Emphasis on the methods of teaching and coaching field hockey. Offense and defense, player-coach relationship, team selections, planning of practice sessions, and game situations will be areas of concentration. The course will also cover rules of field hockey and techniques of officiating. Cr 3.

PHE 316 Coaching and Officiating Volleyball
Emphasis on the methods of teaching and coaching volleyball. Offense and defense, player-coach relationship, team selections, planning of practice sessions, and game situations will be areas of concentration. The course will also cover rules of volleyball and techniques of officiating. Cr 3.

PHE 335 Coaching and Officiating Baseball and Softball
The course will cover individual and team techniques, drills to implement these techniques, practice organization and methods of starting, maintaining and improving programs at various levels. The course will also cover rules of baseball and softball plus techniques of umpiring. Cr 3.

PHE 391 Field Experience/Internship
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 1-6.
ECE 510 Practical Applications of the Montessori Method for Students with Exceptionalities
This course offers an overview of the philosophy and methods of Montessori education in early childhood settings, with particular attention to the needs, services, and creation of inclusive environments for children with disabilities. In this interactive format, participants will explore the possibilities of utilizing the elements of the Montessori model for practical applications for all children, including those with disabilities, in their classroom environments. Teachers will have the opportunity to connect Montessori theory and practices, gain an understanding of policy and legal mandates for young students with disabilities and their families; become familiar with the principles of universal design; strategies for working with families, assistive technology; and the transition from pre-school to school-aged services. Cr 3.

ECE 511 Classroom Leadership and Environmental Design in an Early Childhood Montessori Classroom
This course covers Dr. Montessori's theory of the interrelated curriculum as it relates to strategies of classroom leadership and strategies that gain the child's confidence, cooperation and attention, thereby helping to develop a pattern of respect for authority. Environmental design techniques that can be applied to the physical environment and their application to classroom management are also discussed. Students will participate in a practicum experience concurrent with the course. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education program, or by instructor permission. Cr 2.

ECE 512 Montessori Principles and Philosophy
Through a series of readings, lectures, class discussion, writing assignments, and evaluations this course will discuss Maria Montessori's life, the beginning of the Montessori Method and theory of the interrelated curriculum as developed by Maria Montessori in the early 1900's, its growth over the years, and the specifics of the Montessori Philosophy (i.e., absorbent mind, sensitive periods, logical-mathematical mind, spiritual and moral development of the child, etc.). It will also look at how the Montessori principles, materials, teacher, and environment relate to and respect
the developing child from birth through 6 years. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program or by instructor permission. Cr 3.

ECE 513 Child Development, Family, and Community in an Early Childhood Montessori Classroom
This course examines Montessori's theory of the interrelated curriculum, in a study of the developmental patterns of young children. The major emphasis is on the intellectual and emotional development of children during the first six years of life. Major topics covered in this course are the writings and philosophies of past and current theorists; current trends in family dynamics; and local community resources. This course also looks at the interactions among children, family, school, peers, media, and community, with an emphasis on ethnic and ability/learning diversity, social class, gender roles, and their impact on behavior, values, morals, and attitudes. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 3.

ECE 514 Practical Life and Daily Living in an Early Childhood Montessori Classroom
This course examines Montessori's theory of the interrelated curriculum, as it relates to five major categories of practical life and daily living: Care of the Self; Care of the Environment; Grace and Courtesy; Control of Movement; and Food Preparation. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 2.

ECE 515 Sensorial in the Early Childhood Montessori Classroom
This course examines Montessori's theory of the interrelated curriculum, as it relates to the philosophy and rationale of the sensorial area and presentation of the sensorial materials aiding the development and refinement of the senses. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 2.

ECE 516 Assessment and Observation in an Early Childhood Montessori Classroom
This course provides a framework for studying Montessori's theory of interrelated curriculum, by examining the formative use of classroom assessment in an early childhood Montessori classroom. This includes developing skills using direct observation as a tool for studying children, gathering evidence of their learning, using that evidence to design instruction, communicating clear expectations and giving appropriate and meaningful feedback to children and their parents. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 3.

ECE 520 Language Arts in the Montessori Early Childhood Classroom
Montessori's theory of interrelated curriculum is examined as it relates to the philosophy and rationale of the language arts area and its materials. Major topics covered are the materials and exercises that foster receptive and expressive language experiences, visual and auditory perceptual experiences, vocabulary development and enrichment along with reading and writing development: pre-writing exercises: metal insets, small muscles exercises; vocabulary cards, story reading, letter recognition games, sequencing activities, etc.; early writing exercises: tracing and writing individual letters; early reading exercises: sounds of individual letters, moveable alphabet to form words, object or picture classification to isolate individual vowel and consonant sounds; non phonetic words; blends; diagraphs; long vowel patterns; reading as a tool: word definition cards; grammar: noun, verb, adjective; writing simple sentences; writing poetry; and writing descriptions. Students will also become familiar with children's literature and learn skills in reading books to children using expression, intonation, inquiry and prediction. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 3.

ECE 521 Mathematics in an Early Childhood Montessori Classroom
Montessori's theory of interrelated curriculum is examined as it relates to the philosophy and rationale of the mathematics area and the presentation of the Montessori math materials that aid in the development of Mathematical concepts and skills: introduction to numbers, counting, the decimal system, the four basic operations of the decimal system, understanding and recall of facts, and fractions. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 3.

ECE 522 Science in an Early Childhood Montessori Classroom
Montessori's theory of the interrelated curriculum holistically joins the sciences. Students will become familiar with the Montessori presentations in science as they relate to contemporary educational thought. Activities are demonstrated that focus on the characteristics, parts, and classification of plants and animals as well as simple science experiments that children can do independently. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 3.

ECE 523 Social Studies in an Early Childhood Montessori Classroom
Montessori's theory of the interrelated curriculum holistically joins history and geography. Students will become familiar with the Montessori presentations in these subject areas through study of globes, landforms, puzzle maps, flags, timelines, and the concept of time. Prerequisites: Open to matriculated students in the Montessori Early Childhood Education Program, or by instructor permission. Cr 3.

ECE 525 Early Childhood Practicum in a Montessori Classroom
The purpose of the Practicum is to provide the intern with the opportunity for personal and practical experiences in a teaching / learning experience as an Early Childhood Montessori teacher with children ages 2 1/2 through 6 year age. It also provides a period of observation, internalization, and further study, to bring together the theory and practice of Montessori education. This course is intended to allow the student time to experiment with teaching the cosmic lessons, develop new curriculum materials, as well as manage the daily routines of an early
EDU 514 Improving Teaching in Content Areas through Literacy for All Students Including Those with Diverse Abilities and Backgrounds
This content area literacy course focuses on helping students develop strategies for strategic, independent learning. All students, including those with diverse abilities and culturally diverse backgrounds, will come to understand that learning is an active, constructive process. Therefore, the course will explore various methods of using books to individualize reading instruction. Students are expected to read widely in juvenile collections in order to establish a foundation for developing individualized reading plans. Attention is given to standards of selection, curriculum implications, and performance-based assessment and grading. Prerequisite: Open to matriculated students in the Montessori Early Childhood Education program, or by instructor permission. Cr 3.

EDU 501 Secondary Science Methods
This course has an interactive laboratory/discussion field-based approach, modeling and focusing on the teaching and learning aspects of science in the high school and middle school. The emphasis is on content, process, and methodology and will help interns develop knowledge of how to teach (pedagogy) and, more specifically, knowledge of how to teach science (pedagogical content knowledge). Students will learn strategies for planning and providing core academic and behavioral experiences to all learners. Prerequisites: Open to matriculated interns in the ETEP program or by ETEP program permission. Cr 3.

EDU 502 Secondary English Methods
This course focuses on ways to organize and teach English classes at the middle school and high school levels based upon current research in literacy and national and state standards in English Language Arts. Students will examine various strategies involved in designing and managing a student-centered English Language Arts class. They will explore and apply different theories for teaching English and create classroom activities to develop and expand upon students’ capacities to read, write, and speak effectively. Students will learn to see the necessary and important connections between reading and writing. Prerequisites: Open to matriculated interns in the ETEP program or by ETEP program permission. Cr 3.

EDU 503 Foreign Languages Methods
This course provides an introduction to the theory and practice of teaching and learning foreign languages at the middle and high school based upon current research and national and state standards with a central focus on communicative language teaching. Students examine theories of second language acquisition, techniques for teaching interpersonal, interpretive, and presentational modes of communication, as well as literature and culture. The course explores task-based instruction, the use of culturally authentic materials, the integration of technology as well as means of performance-based assessment and grading. Prerequisite: Open to matriculated students in ETEP, the Modern and Classical Languages and Literature Education TED Pathway or by ETEP program permission. Cr 3.

EDU 504 Secondary Social Studies Methods
This course focuses on ways to organize and teach social studies classes at the middle school and high school levels. Various theories for teaching social studies, national and state standards, and current research work to serve as the backdrop for creating classroom activities that connect the topics to the students’ lives. The instructor will demonstrate various strategies involved in designing and managing a student-centered curriculum. Prerequisite: Open to matriculated ETEP students or by permission of the ETEP program. Cr 3.

EDU 505 Teaching Mathematics K-8
This course, intended for those preparing to be K-8 teachers, provides experiences to develop, critique, and apply knowledge, skills, and research findings in mathematics, pedagogy, and mathematical learning theory in elementary and middle school classrooms. Major areas of focus include learning and assessment of all children, instruction to support all students’ mathematical understanding, reasoning, communication, and collaboration; standards (national, state, and local); content integration; resources; issues; and the discipline's philosophical framework. Prerequisite: ETEP program admission. Cr 3.

EDU 511 Children's Literature
This course is designed for teachers who wish to develop a deeper understanding of the literature written for children ages 4-12 and who want to become competent and creative catalysts in bringing children to books. Attention is given to standards of selection, curriculum implications, and methods of using books to individualize reading instruction. Students are expected to read widely in juvenile collections in order to establish a basis for selecting appropriate literary fare. Cr 3.

EDU 513 Adolescent Literature
This course is designed for middle or secondary teachers who wish to develop a deeper understanding of literature for adolescents and who needs to learn how to help young people read widely. Attention will be given to the dynamics of adolescence, individualizing reading, standards of selection, and creative methods of introducing books. Cr 3.

EDU 514 Improving Teaching in Content Areas through Literacy for All Students Including Those with Diverse Abilities and Backgrounds
This content area literacy course focuses on helping students develop strategies for strategic, independent learning. All students, including those with diverse abilities and culturally diverse backgrounds, will come to understand that learning is an active, constructive process. Therefore,
teachers of all subjects and grade levels will demonstrate knowledge and application of sound reading and writing strategies to enhance learning in the classroom. These strategies will create readiness for learning, use reading and writing to promote content understanding, and provide a means for assessing what has been learned. Major emphasis is given to comprehension instruction, vocabulary acquisition, and metacognition. Cr 3.

EDU 521 Digital Literacies and Education
In this course, students explore the use of technology in K-12 education with a focus on literacy in the 21st century. Learners gain insight and experience in the effective integration of technology in literacy education through experiential learning, discussion, readings, and design of lessons and activities. Students examine related educational and societal issues through both academic and mainstream lenses in the context of relevant standards. Cr 3.

EDU 525: Invitational Summer Writing Institute
This course is an introduction to the principles and practices of the Southern Maine and National Writing Projects. Fellows (i.e., those enrolled as students in the course) will explore and reflect upon the craft of writing through reading and discussion, and will learn effective practices for the teaching of writing. In addition, Fellows will produce portfolios of their writing, participate in writing groups, demonstrate writing strategies through various activities, and develop a philosophy on the teaching of writing. Prerequisite: by permission of the instructor. Cr 3.

EDU 526: Invitational Fall Writing Institute
This course builds on the principles and practices of the Southern Maine and National Writing Projects introduced in EDU 525, Invitational Summer Writing Institute. Fellows (i.e., those enrolled as students in the course) will further explore and reflect upon the craft of writing through reading and discussion, and continue to learn effective practices for the teaching of writing. In addition, Fellows will complete portfolios of their writing, participate in writing groups, demonstrate writing strategies through various activities, and develop a philosophy on the teaching of writing. Lastly, Fellows will engage in reflection and/or research to develop their teaching practice and to share their learning with others. Prerequisite: EDU 525. Cr 3.

EDU 543 Professional Internship in Elementary Education
This course is a supervised, year-long, internship experience in applying knowledge and skills to the practice of teaching. An intern is assigned to a mentor teacher and classroom at a middle or high school, ideally in a partner district, for direct supervision of day-to-day practice, planning and instruction, and formative assessment. The internship includes a site-based seminar that meets throughout the year. Cr 1-6.

EDU 546 Planning and Assessment for Proficiency Based Learning I
This is the first of a two course series designed for pre-service teachers to be taken concurrently with a school-based placement. The course begins with an overview of national learning standards and understanding the sociopolitical context of standards based learning from an equity perspective. Students will learn to build lesson plans and series of lessons for their grade level aligned with standards and child development. The foundations of classroom assessment will be addressed (diagnostic, formative and summative) including developing a repertoire of valid and reliable assessment methods, communicating clear expectations, giving meaningful feedback, and involving students in assessment. Students share experiences and practices with each other, discuss and reflect upon relevant readings and apply learning in classroom settings. Prerequisites: students must be matriculated into a graduate, teacher certification pathway. Cr 3.

EDU 547 Planning and Assessment for Proficiency Based Learning II
This is the second of a two course series designed for pre-service teachers to be taken concurrently with a school-based placement. This course focuses on long term planning, communication about student progress (feedback and grading), and empowering students to take ownership through the use of student developed rubrics, self, and peer assessments. Students will learn to build unit plans, as well as yearlong plans, aligned with learning standards and assessment systems. Prerequisites: EDU 646; students must be matriculated into a graduate, teacher certification pathway. Cr 3.

EDU 550 Professional Internship in Secondary Education
This course is a supervised, year-long, internship experience in applying knowledge and skills to the practice of teaching. An intern is assigned to a mentor teacher and classroom at a middle or high school, ideally in a partner district, for direct supervision of day-to-day practice, planning and instruction, and formative assessment. The internship includes a site-based seminar that meets throughout the year. Cr 1-6.

EDU 551 Teaching Social Studies K-8
This course is designed to provide students with a general understanding of the guiding principles and the strands of social studies. Students will gain a working knowledge of the best practices in social studies instruction and the goals of social studies education. Students will create lesson plans and incorporate appropriate instructional methods and materials as part of the course requirements. Prerequisites: Open to matriculated interns in the ETEP or by permission of the ETEP program. Cr 3.

EDU 552 Teaching Science K-8
This course has an interactive laboratory/discussion field-based approach, modeling and focusing on the teaching and learning aspects of science in the elementary and middle school. The emphasis is on content, process, and methodology. The course will be framed by the Department of Teacher Education's Core Practices, Maine's Learning Results, the National Science Education Standards, and by the students' goals about the teaching and learning of science. Students will learn strategies for planning and providing core academic and behavioral experiences to all learners and differentiated academic and behavioral experiences for learners with special needs. Prerequisites: Open to matriculated students in the ETEP by ETEP program permission. Cr 3.
EDU 554 Secondary Mathematics Methods
This course, intended for those preparing to teach mathematics at the 7-12 level in the state of Maine, provides experiences to develop and apply mathematical content knowledge and pedagogical skills in middle and secondary school classrooms. Major areas of focus include: how students learn mathematics, conceptual development of mathematical understandings, problem-solving instructional strategies, appropriate and effective uses of tools and technology, assessment of student learning, and providing equitable access to learning for all students. Prerequisites: Open to matriculated students in ETEP, the Secondary Mathematics Education Teacher Education Pathway, or by ETEP program permission. Cr 3.

EDU 557 Teaching Writing to Multilingual Learners
This course focuses on developing and improving writing skills for English language learners (ELLs), by examining second language acquisition and writing theories and how they inform classroom practice. It is designed to equip teachers with the dispositions, knowledge, skills and strategies to implement writing instruction for ELLs at all levels of proficiency. Students gain firsthand experience using the writing process. They will draw on current research, theory, and classroom practice, leading to the development of instructional programs that will meet the needs of their ELLs. Cr 3.

EDU 558 Content-Based Curriculum for English Language Learners
This course focuses on the factors necessary for the development and implementation of relevant content learning for second language students of all age and proficiency levels in the public school setting. The course explores the theoretical background and models of strategies for insuring competent delivery of appropriate language and content in a multilingual context. A co-construction approach incorporating the backgrounds and experiences of course participants is the principal methodological approach. The framework of the course is a pedagogical focus that incorporates scaffolding, differentiated instruction, independent learning strategies, critical thinking, and assessment. Cr 3.

EDU 559 Aspects of Reading for Multilingual Learners
This course examines the role of literacy in the K-12 and adult classroom for linguistically and culturally diverse learners in local and global contexts. A critical analysis of the developmental nature of the reading process as it applies to young learners, as well as application to older learners with varying degrees of first language literacy, is a major emphasis. An examination of first language and cultural and linguistic diversity influences on reading in a second language and multiliteracies in the light of current applied linguistics research is also a major emphasis. Cr 3.

EDU 561 Aspects of the English Language
This is a practical course for the prospective or continuing ESL teacher which will examine the various linguistic elements of the English language and their relevance to the teaching process of English as a Second or Other Language. We will be focusing on analyzing the grammatical and phonological aspects of the English language as well as looking at morphology and lexis, semantics, and such social aspects of the language as register and speech variation. Primary emphasis will be placed on a better understanding of English through class discussion, oral presentations, and practical application for teaching in the ESL classroom. Cr 3.

EDU 562 Linguistic and Cultural Diversity in the Classroom
This course examines the nature of language and cultural differences among learners of various ethnic and racial backgrounds. The exploration of diversity provides opportunities for participants to develop a personal awareness of the role of cultural conditioning in classroom encounters; to reflect on and to confront personal biases as they relate to teaching; to acquire the skills and resources for an ethno-relative approach to delivering instruction; and to make language- and topic-related choices compatible with learner differences. Cr 3.

EDU 563 ESL Testing and Assessment
The focus of this course is on learner-centered approaches to constructive evaluation of language and content. Emphasis is predominantly on authentic, performance-based assessment practices but also include the role of criterion-and norm-based formal testing procedures within a holistic evaluation framework. Comprehensive evaluation of language involves the whole learner, including an integrated approach incorporating socio-cultural, academic, and cognitive perspectives. Also included is an understanding of biases influencing formalized second language testing. Cr 3.

EDU 565 Teaching Reading for all Students in Grades K-8, Including Those with Diverse Abilities and Backgrounds
In this course students will learn to use evidence-based instruction to teach reading in grades K-8. Students will examine theories and current research on reading development and process in order to effectively instruct and assess all readers, including students with special needs and from culturally and linguistically diverse backgrounds. Students will learn how to implement multiple strategies to support reading development and promote children’s proficiency in state standards. Additionally, digital literacies, reading across the curriculum, and ways to engage and motivate readers will be emphasized. Prerequisite: Admission to candidacy (must be concurrently enrolled in a student teaching internship), or LLC Department approval. Cr 3.

EDU 566 Teaching Writing for All Students Including Those with Diverse Abilities and Backgrounds
In this course students will learn to use evidence-based instruction to teach writing for all students. Students will examine theories and current research on writing development and process in order to effectively instruct and assess all writers, including students with special needs and from culturally and linguistically diverse backgrounds. Students will learn how to implement multiple writing strategies across various genres to support writing development and promote children’s proficiency in state standards. Additionally, students will explore the use of technology and participate in writing sessions to develop as writers and teachers of writing. Prerequisite: Admission to candidacy (must be concurrently enrolled in a student teaching internship), or LLC Department approval. Cr 3.
EDU 579 Cultural Understanding through Study Abroad
The main focus of this course, through a study abroad component and pre abroad meetings and study, is for students to experience what it is like to be immersed in a country and culture they do not know, and relate their new insight to their professional work in the U.S. By creating understanding through real life experiences and learning about individual immigration experiences in the U.S., professionals will develop understanding, empathy, and insight into working with individuals who come from another country or who come from a strong ethnic cultural background within the U.S. Cr 6.

EDU 599 Independent Study in Teacher Education
This course provides students the opportunity to pursue a project independently, planning and exploring an area of interest within the field of teacher education. Most independent study projects are library based; all are intellectually sound and reflect a high caliber of performance. Specific content and methods of evaluation are determined in conjunction with the instructor. An approved proposal is a necessary prerequisite to registration. Prerequisite: Matriculation into MTL program. Cr 3.

EDU 600 Research Methods and Techniques
This course studies the concepts, principles, and techniques of educational research with an emphasis on scientific inquiry and problem solving, designed for both the producer and consumer of educational research. Individual critiques and research reviews are completed. Prerequisite: open to matriculated students only. Cr 3.

EDU 603 Analysis of Teaching and Assessment
This course provides an opportunity to view teaching from the perspective of selected conceptual frameworks and research findings in the theory and practice of teaching and assessment. Analysis of individual teaching behavior and classroom assessment is an important aspect of this course. Cr 3.

EDU 604 Curriculum Development
This course provides students with an understanding of curriculum and curriculum development. Using a collaborative approach, teachers and administrators plan the design of a curriculum consistent with personal ideals and a given context. Students analyze the curriculum in terms of knowledge, skills, learning processes, and affective dimensions. Special emphasis is given to the processes of curriculum implementation and curriculum evaluation. Cr 3.

EDU 605 Testing and Assessment
This course develops students' knowledge of testing and assessment and provides opportunities for students to apply that knowledge to instruction and curriculum issues. Students will review the critical roles of teachers and administrators in testing and assessment. Participants will examine concepts such as curriculum alignment, opportunity to learn, equity, and fairness, and relate these concepts to classroom assessments and other common district and statewide standardized assessments. Participants will address issues such as validity, reliability, and standard setting in the context of diverse perspectives about the construction, production, and interpretation of knowledge. Cr 3.

EDU 607 Teacher Research in Literacy
One type of research that now largely informs our knowledge of literacy learning and instruction is ethnographic in nature. More and more of it is the work of teacher researchers. The purpose of this course is to enable students to become generators of new contextualized knowledge through their own classroom-based research and inquiry. Students will be introduced to major research paradigms and will learn and practice techniques of data collection and analysis. Naturalistic methods of studying literacy learning in real classroom contexts will be emphasized. During the course of the semester each student will generate a research question, design an action research study or piece of naturalistic inquiry that will help answer the question, collect and analyze sample data, and summarize findings or revisions necessary to improve the study. The class will function as a community of researchers; a substantial portion of class time will be spent working in small groups. Prerequisites: EDU 565, EDU 620, or EDU 559 and EDU 566, EDU 626 or EDU 557 and open to matriculated students in the MSED. in Literacy or TESOL, or by program permission. Cr 3.

EDU 612 Practicum/Seminar
This practicum/seminar, for experienced teachers in the teacher leadership program, is a two-semester, field-based project and concurrent seminar requiring a culminating activity in which the student utilizes the major learnings from the program in identifying and applying problem-solving strategies to a specific area of concern in a field setting. A written practicum report will be presented and discussed in an open forum. Cr 6 (3 credits each semester).

EDU 615 Middle Level Curriculum Organization
This course provides an opportunity to examine realities and possibilities of middle school curriculum design and content and to explore various longstanding controversies about the relationship between curriculum and the world, curriculum and learners, curriculum and the academic disciplines, and curriculum and educational aims. Moreover, it delves into conceptions of knowledge, knowing, and learning and into who has access to all three. The course investigates both middle school curriculum theory and curriculum practices, invites students to critique current and past approaches, and then develop a curricular approach of their own. It looks closely at the impact of curricular practices on the welfare of students and society. An important goal of the course is to provide opportunities for students to develop their own standards and naming the institutional contexts necessary for supporting those standards. Students should leave the course with a clear idea about what curricular approaches they think serve the welfare of middle school students and the larger society. Cr 3.
EDU 617 Teaching at the Middle Level
This course provides an understanding of the role the teacher plays in the intellectual, social, emotional, and personal development of young adolescents. Students investigate, try out, and evaluate responsive teaching strategies and explore the design and structure of advisor/advisee programs and curricula. Cr 3.

EDU 620 Reading Development and Instruction
Becoming a skilled reader is a developmental process. Although literacy acquisition is continuous, distinct stages of reading growth may be discerned as students become accomplished readers. The course provides a theoretical framework for sound instructional practices based on a cognitive, developmental perspective. Major emphasis is on using literature-based instruction. Current issues in the teaching of reading will be examined and the application of literacy practices to ESL, adult basic education, and special needs populations will be addressed. Suggested readings represent current research and practice. In addition to the texts, students are expected to read professional books and journal articles, synthesize information from readings, and generate implications for literacy instruction. Case studies and simulation exercises will be used to provide practical applications of the course content. This course is intended for classroom teachers, administrators, and other educators. Cr 3.

EDU 621 Literacy Problems: Assessment and Instruction
This course conceptualizes reading assessment as a process of becoming informed about learners. The course focuses on the development of diagnostic insights and corrective strategies for struggling readers of all ages. Current trends from research and practice are explored. Case studies and in-class practica help teachers implement effective procedures in the classroom. Cr 3.

EDU 622 Designing and Managing Literacy Instruction, PS-3
This course focuses on the development of language (both oral and written) in children 3-8 years of age. Content includes the characteristics of language learners, the conditions that promote emergent literacy, and organization and management of literacy instruction in the primary grades. Cr 3.

EDU 623 TESOL Practicum
The practicum in Teaching English to Speakers of Other Languages is designed to accommodate students in the TESOL program who are ESL teachers, mainstream teachers working on getting ESL-endorsed by the state, international students, and adult educators. In this course, students acquire practical ESL/EFL teaching experience in the field while applying knowledge gained through coursework and research. The course is aligned with the TESOL standards. Prerequisite: Matriculated students who have completed 24 credit hours of program course work. Cr 3.

EDU 626 The Writing Process
This course focuses on the study of writing development in children and how teachers can facilitate writing through a process approach. Many writing strategies for the classroom and the individual writer will be modeled and put into practice. In addition, students will investigate specific areas of interest to improve their own writing and writing instruction. Through participation in writing lessons and workshops, students will develop their own pieces of writing, examine the needs of diverse learners, design instruction for varying developmental stages of writers, explore the use of technology, and understand the implications of national, state, and local standards. This course is intended for classroom teachers, administrators, and other educators. Cr 3.

EDU 633 Special Applications in Literacy
Independent study opportunities to apply course experiences in field-based situations are encouraged. Considerable latitude is possible in pursuing options of professional interest with approval of an advisor. Examples of activities include: writing project (meeting standards of professional journals), intensive clinical experiences, educational consultation and research. Independent options must be approved in writing by the program coordinator. Cr 1-6.

EDU 634 Seminar in Literacy Research
The course provides a cultural-historical lens to literacy and reviews current research trends in literacy theory and practice. Students will review and analyze contemporary research. This course is intended to be the last class in the literacy education master's sequence (except EDU 639); CAS students may request permission to enroll. Prerequisites: By program permission. Cr 3.

EDU 635 Seminar in Second Language Literacy
This course integrates the knowledge base acquired in core ESL courses by focusing on the characteristics of a fluent second language reader and writer. There will be an analysis of first language reading models and their relevance to literacy acquisition in English as a second language. The impact of variables such as native language proficiency, perception, lexical knowledge, cognition, metacognition, and culture will be examined. This course is intended to be the last class in the TESOL master's sequence (except EDU 623); CAS students may request permission to enroll. Prerequisites: By program permission. Cr 3.

EDU 636, Teaching Adolescent Writing
This course focuses on the writing needs of the adolescent learner. Students will extend their knowledge of process writing, examine the role of the writing teacher across disciplines, and consider going beyond formula to include multiple genres in all subjects. In addition, students will deconstruct texts for writing instruction, examining voice, style, structure, values, and authority. The role of technology for gathering and sharing information and alternative assessments will be included. Prerequisites: One course from the following list: EDU 566, EDU 557, EDU 626, EPB 596, EPA 509; or instructor permission. Cr 3.
EDU 637: Contemporary Approaches to Literacy Leadership
This course will examine contemporary approaches to school-wide literacy and build capacity for teachers and school leaders to carry out the school’s literacy mission. It will offer direction and support to those charged with organizing and delivering effective literacy instruction to K-12 students, as well as adult education students. Topics will include the roles of literacy specialists, literacy coaches, and literacy interventionists; methods for working with struggling readers and writers and their teachers; strategies for assessment and analysis of data; theories of adult learning and development; strategies for leading professional development, peer coaching, and collegial support; ways to involve families and the community in literacy; and the changing design of our schools to best meet the needs of all students through culturally responsive leadership. Practicing teachers, literacy interventionists and specialists, school leaders, and adult educators are encouraged to enroll. Cr. 3

EDU 638 Advanced Second Language Acquisition
This course examines a broad range of second language acquisition (SLA) theories and applies them to English as a Second Language (ESL) pedagogy. This advanced course focuses on the exploration of second language acquisition as a complex phenomenon and aims to generate in the students a personally meaningful, context-relevant understanding of the phenomenon. Students will be able to relate current theories of SLA and existing empirical research to their daily needs as teachers. Prerequisites: EDU 561 Aspects of the English Language. Cr 3.

EDU 639 Practicum in Literacy Education
The Practicum in Literacy Education is designed to be an intense capstone experience that prepares candidates for endorsement as a literacy specialist. According to the International Literacy Association, literacy specialists are responsible for 1) developing, leading, or evaluating the school or district pre-K–12 reading and writing program, 2) supporting teacher learning, and 3) working with students who struggle with reading. The practicum is intended to model an effective literacy program where graduate students assume these responsibilities and are expected to meet the competencies set forth by the International Literacy Association. Prerequisite: 21 credits in literacy coursework including the following literacy content courses: EDU 565 or EDU 620, and EDU 566 or EDU 626, and EDU 511 or EDU 513, and EDU 514, and EDU 621, and permission of the instructor. Cr 6.

EDU 643 Inquiry in Education
This course focuses on inquiry in the field of education, including the development, implementation and evaluation of research project focused on classroom practice or educational policy issues. This course is designed as a capstone for the master's in Teaching and Learning and is taken in the last semester of the MTL program. Candidates completing special education or ESL certification will conduct research in their respective field. Prerequisites: Completion of ETEP teacher certification internship and EDU 600; or by special permission of the instructor. Cr 3.

EDU 651 Instructional Strategies for Secondary Teaching
This course explores the historical, philosophical, and political foundations of contemporary secondary schools, pedagogy, and curriculum as a means to understand how instructional and curricular choices are made. It also assists students in developing a repertoire of instructional strategies through modeling, practice, and reflection. Students hone their skill in choosing and using student-centered, thinking-oriented instructional strategies, addressing students’ diverse learning needs through varied learning activities. Prerequisites: Open to matriculated ETEP interns and by Teacher Education Program permission. Cr 3.

EDU 652 Curriculum Design
This course is designed to develop an understanding of the levels of policy decisions about curriculum selection and implementation and how teachers develop curriculum for units, grade levels, and subject areas. Major areas of focus include the governance of curriculum, backward planning design process, curriculum mapping, and the development of a conceptual framework which demonstrates the interconnections of curriculum, instruction, and assessment. Prerequisites: matriculation in ETEP, or by Teacher Education Program permission. Cr 3.

EDU 659 Special Education Law for School Leaders
This course acquaints prospective school leaders at the building and district level with the general principles of special education law as found in the interpretation of constitutional and statutory provisions by the higher courts. Laws governing pupils, teaching personnel, administrators and boards of education will be stressed. Cr 3.

EDU 665 CAS Directed Study
This course provides CAS students with an opportunity to focus on long-term applied research projects near the beginning of their programs of study, rather than wait until they have completed their regular CAS coursework. Some students enter the program having embarked upon long-term projects that will positively impact their schools or school systems. This capstone option gives them the opportunity to combine work on those projects at the same time that they take other graduate courses in their individual CAS programs. This project will be carried out through the program, but the culminating synthesis should take place in the last academic year of the program. Cr 3-6.

EDU 667 Professional Educator Capstone
This course is designed for students who are completing the Professional Educator program. It provides students with the opportunity to conduct an action research project in which they develop strategies to solve a problem of practice. Students will identify a problem that present barriers to student learning, conduct a review of relevant literature, collect and analyze data, devise a solution or intervention, and present findings to an authentic audience. The course takes the form of a professional community where students engage in collegial interaction, peer learning, and reciprocal feedback. Prerequisite: completion of 30 credits towards the M.S. Ed: Professional Educator. Cr. 3

EDU 670 Introduction to Educational Leadership
This course is designed to be the first course taken in the educational leadership program which may lead to certification as a principal, special education director, or curriculum coordinator. The course has two major foci: the characteristics of good leadership and the skills of effective educational leadership. Since many students who enroll in this course are exploring a career transition into administration, a goal of the course is to give participants a clear understanding of the decisions faced by educational leaders, the skills and knowledge necessary to perform effectively, and to give participants an opportunity to explore strategies for balancing the demands of the job, personal commitments, and responsibilities. Cr 3.

**EDU 671 Organizational Behavior**
This course will explore the interactions between individuals and the systems in which they live and work. Organizational behavior is the utilization of theory and methods of academic disciplines for understanding and influencing behavior in people in organizations. Individual and group level of analysis are included in covering such topics as diversity, perception, communication, motivation, power, group development and performance, innovation, quality, individual effectiveness and development, leadership, and intergroup behavior. Cr 3.

**EDU 677 Seminar in School Management**
This course, through the use of case studies, simulations, readings, presentations, and discussions will focus on students: (1) learning the nuts and bolts needed for daily management, (2) examining current issues facing the principalship, (3) learning strategies for managing and understanding oneself within the principal's role, (4) studying specific financial skills required of the principal and, (5) articulating positions on current educational practices, and developing an educational leadership philosophy. Prerequisite: instructor permission. Cr 3.

**EDU 678 School Law**
This course acquaints students with general principles of school law as found in the interpretation of constitutional and statutory provisions by the higher courts. Laws governing pupils, teaching personnel, and boards of education and special education will be stressed with particular emphasis on Maine school law. Cr 3.

**EDU 679 Evaluation and Supervision of Teaching**
This is an introductory course focused on evaluating and supervising teaching performance. As the teaching students may supervise ranges from preschool through adult education in a variety of subject areas, this course offers a framework of supervisory concepts and asks students to apply these concepts to the settings and clientele they would likely encounter. The major product of this course is a platform for articulating one's beliefs and espoused practices for evaluating and supervising teaching in a setting specified by the student. Cr 3.

**EDU 683 School Finance**
This course provides a working knowledge and understanding of Maine state law and of school system finances and the funding process. An historical perspective is explored as well as current issues and problems on a statewide and national level. Specific emphasis is given to revenue generation and distribution, state and federal influences, local tax issues, budget development, budget management, and budget administration and control. Cr 3.

**EDU 685 Internship in School Administration**
This three-semester, nine-credit course (three credit hours each semester) combines the 240-hour internship field experience with the development of an applied research project in educational administration. The early focus of the course is on the internship in a school setting designed jointly by the student, the internship supervisor, and a school-based field supervisor. The internship is designed to encourage application of formal coursework to the management issues that face school leaders in the workplace. Out of the internship activities students complete a journal, develop a leadership platform (portfolio), conduct an investigation on an aspect of financial management and a study of community demographics and formulate a leadership project based on an issue of importance to the school. Each student will be required to produce a written report on the project and to defend it verbally at the conclusion of this course. Prerequisite: Instructor permission. Cr 9.

**EDU 686 Internship in Special Education Administration**
This three-semester nine-credit course (three credit hours each semester) serves as the capstone experience in the educational administration program for aspiring special education directors. The internship is designed to immerse the student in the everyday tasks of the special education director, providing an opportunity for the student to actually apply the skills and knowledge gained throughout the educational leadership program. The early focus of the course is on the internship in a district setting designed jointly by the student, the internship supervisor, and a district special education director. Out of the internship activities students complete a journal, develop a leadership platform (portfolio), conduct an investigation on an aspect of financial management related to special education and a study of community demographics/child find and formulate a leadership project based on an issue of importance in special education at the school or district level. Each student is required to produce a written report on the leadership project and to present it at the conclusion of the course. Prerequisite: Instructor permission. Taken at the conclusion of a student's program. Cr 9.

**EDU 687 Internship in the Superintendency**
This two-semester, six-credit course (three credits each semester) is designed to immerse the student in the everyday tasks of the superintendent of schools providing an opportunity for the student to actually apply the skills and knowledge gained throughout the educational leadership program. This course, made up of field experiences in the school superintendency, is designed to meet certification requirements and to prepare individuals for the position. The internship is designed to encourage application of formal coursework to the leadership and management issues that face superintendents in the workplace. Out of the internship experience, students will develop a project, in which they will be expected to take a leadership role in designing, implementing, and assessing a project that addresses an important district-wide educational issue. Prerequisite:
EDU 688 Internship in Curriculum Administration
This three-semester, nine-credit course (three credits each semester) serves as the capstone experience in the educational leadership program for aspiring curriculum coordinators. The internship is designed to immerse the student in the everyday tasks of the curriculum coordinator, proving an opportunity for the student to actually apply the skills and knowledge gained throughout the program. The early focus of the course is on the internship in a district/central office setting designed jointly by the student, the internship supervisor, and a curriculum coordinator. Out of the internship activities, students complete a journal, develop a leadership platform (portfolio), conduct an investigation on an aspect of financial management related to special education and a study of community demographics and formulate a leadership project based on an issue of curriculum/instructional importance to the district/school. Each student is required to produce a written report on the leadership project and to present it at the conclusion of the course. Prerequisite: Instructor permission. Program capstone. Cr 6.

EDU 699 Independent Study
This course provides an opportunity for students to pursue a topic of interest on an independent basis. The specific content and evaluation procedures are arranged with an instructor. Prerequisite: Permission of supervising instructor and the department chair. Cr var.

EDU 701 Foundations of Education Policy and Research
This six hour, two-semester course follows PPM 707. It focuses on selected educational reform policies from historical, social, and political perspectives and the research designs that are appropriate for studying them empirically. Students will engage in careful readings and critical analyses of primary, empirical, and peer-reviewed studies of educational reform policy formation and implementation, and they will examine appropriate designs for doctoral research along these lines. The reform policies that will be considered will reflect recurring issues and the dilemmas they pose for educational leaders. These include, but are not limited to: multiple and conflicting educational aims and purposes, upgrading the teaching profession (preparation, recruitment, retention, development), evaluating student achievement and teaching effectiveness, reducing inequalities in student opportunities and outcomes, and the interplay between corporate and non-corporate models of schooling. The following research designs will be emphasized: qualitative and mixed methods case studies, interview studies, content analyses, survey research, correlation studies, experimental studies, and ex-post /causal comparative studies. As part of the course, students will be introduced to doctoral faculty and their areas of research. Prerequisites: Acceptance into the Ph.D. program and successful completion of PPM 707. Cr 6 (three each semester).

EDU 702: Contemporary Issues in Education Policy and Leadership
This course builds on EDU 701 and examines the role of the local, state, and federal government in creating educational policy to address contemporary education-related issues, and the impacts and challenges they pose for leadership in the context of federal, state, and local environments. As a group and individually, students will engage in careful readings and critical analyses of position papers, primary, empirical, and peer-reviewed studies that deal with current issues in educational policy drawn from various topics and from diverse political paradigms. Prerequisites: Successful completion of EDU 701. Cr 3.

EDU 705 Data Collection and Analysis in Education Research
This six hour, two-semester course follows EDU 701. This course focuses on mixed methods for conducting research in education policy and leadership. The course’s emphasis is on the quantitative and qualitative methods of data collection and analysis that are appropriate for studying issues in the fields of education policy and leadership. Students will develop research questions and appropriate data collection and analysis methods for studying these questions. The following research designs will be emphasized: qualitative and mixed methods case studies, interview studies, survey research, correlation studies, experimental studies, and ex-post /causal comparative studies. Prerequisites: Acceptance into the Ph.D. program and successful completion of EDU 701. Cr 6 (three each semester).

EDU 706 Evidence Based Analysis: Policy, Programs, and Accountability Systems
This course focuses on conducting evidence-based reviews and analyses of the design, implementation, and impacts of current international, national, and state education policy, policy initiatives, and education reforms. Using the frameworks articulated by researchers and policy analysts such as Canon, Rushcamp & Freeman (1990), Spillane (1996), Hill (2001), students will analyze approaches countries, states, and school districts take in implementing education policy. Phase I of the course will focus on an analysis of educational reform efforts in American states as well as comparisons of US national efforts with those of other countries. Review of international assessment systems and educational commentary will be examined in light of reform efforts. Phase II of the course will focus on using evidence from Phase I to construct accountability systems for monitoring and assessing the impacts of reform efforts both nationally and in Maine. Students will examine state and local policy implementation, develop accountability systems, and present their reports to state policy makers. Prerequisites: Successful completion of EDU 701. Cr 6 (three each semester).

EDU 708 Dissertation Proposal Seminar
This course is designed to lead students through the process of completing a dissertation proposal. At the end of the course, students will have completed a dissertation proposal that includes: a problem statement, complete research review, a research question, hypotheses, if appropriate and a methodology section. The course will address each of the proposal components in a recursive fashion, developing, sharing, and refining of content. Students will be expected to work closely with their dissertation chair in finalizing the proposal. Successful completion and dissertation committee approval of the proposal are prerequisites for continuation toward the dissertation. Prerequisites: Successful completion of EDU 706 and EDU 707. Cr 3.
**HCE 500 Orientation to the Counseling Profession**
This introductory course is designed to acquaint individuals who are preparing to enter the counseling profession with a broad overview of the profession's historical and theoretical foundations and to begin the development of their professional identities. This course must be taken the first semester following matriculation. Cr 3.

**HCE 507 Spirituality and Religion in Counseling**
This course will address, in an ecumenical and inclusive format, the growing renaissance in the psychotherapeutic community and in the larger American society of the integration of spirituality and religious values. Various aspects of spirituality and religion will be explored as they relate to the counseling process. The course will seek to increase the awareness of counselors to potential areas of client concern, including spiritual journeys, early religious training, search for meaning, personal relationship with the divine, and death and bereavement. Participants will explore various religious and spiritual practices, including, but not limited to, Islam, Buddhism, Native American beliefs, Hinduism, Christianity, and Judaism. Cr 3.

**HCE 510 Introduction to Rehabilitation Counseling and Services**
This course will provide an orientation to the counseling profession, focusing on rehabilitation concepts, services, and settings. Included will be: history, trends, and related legislation; critical components of the rehabilitation process; contemporary counselor roles and functions; professional education, associations, standards, and credentials; ethical and legal issues; technology issues and practices; and rehabilitation agencies and services. Field visits and the examination of rehabilitation services from various participant perspectives will be required. Cr 3.

**HCE 514 Principles of Psychiatric Rehabilitation: Evidence-Based Practices and Treatment**
The purpose of this course is to understand the origins, philosophies, contexts, and methods of mental health services referred to as psychiatric rehabilitation. Content will include dissonant and changing mental health definitions, historical emergence of psychiatric rehabilitation, promising and evidence-based practice, consumer-survivor movement and impact, concepts of recovery, empowerment, and community, family issues and roles, societal myths and stigma, and varied professional functions. PSR models that are proven effective are integrating treatment with rehabilitation, are now being acknowledged as evidence-based practices by SAMHSA. The course will also address how psychiatric rehabilitation is applied in situations involving housing, education, social relationships, substance abuse, and community membership. Cr 3.

**HCE 520 Expressive Arts in Counseling**
This course will provide an introduction to the Expressive Arts modalities within a wide range of counseling contexts, with an emphasis on dance therapy, music therapy, art therapy, and psychodrama. The focus of the course will be on practical applications of arts modalities, as well as the integration of these modalities with verbal counseling approaches. Cr 3.

**HCE 604 Career Development**
This course examines the ways in which counselors assist people of all ages in their life/career development. Emphasis will be on understanding theories, information systems, materials, activities, and techniques for fostering career awareness exploration, decision making, and preparation. The interrelationships among work, family, and other life roles, including multicultural and gender issues, will also be addressed. Cr 3.

**HCE 605 Psychological Measurement and Evaluation**
This course focuses on group tests and related measurement techniques. The course content includes a review of the history of testing, current issues, fundamental statistics for understanding, evaluating, and using tests, including selected aptitude, intelligence, achievement, interest, and personality tests. A variety of standardized and non-standardized evaluation measures will be reviewed. Cr 3.

**HCE 607 School Guidance Programs and Services**
This course is intended for those preparing to be school counselors. It considers the conceptual framework for comprehensive developmental guidance and counseling practices in elementary and secondary schools. Major areas of focus include program management, guidance curricula, individual planning and advising, and responsive services that are organized to meet the educational, personal, and career needs of students. Prerequisites: HCE 609, matriculation in the counselor education program or by permission of the instructor. Cr 3.

**HCE 609 The Practice of School Counseling**
This course will provide students with an introduction to the practices of consultation and large group guidance for counselors working within a developmental model of school counseling. Assignments will incorporate field experiences that promote reflective learning and skill building. Prerequisite: open to matriculated students or by permission of instructor. Cr 3.

**HCE 611 Medical and Psychological Aspects of Disability and Rehabilitation**
This course explores the medical and psychological issues surrounding the concepts of disability and rehabilitation. Particular emphasis will be given to examining: a) the medical model as an organizing framework for viewing disability and rehabilitation; b) the diagnoses and treatment of various physical, developmental, sensory, and emotional conditions; c) the perspectives and responses of people with disabilities toward their diagnosed conditions and prescribed treatments; d) the principles and practice of functional assessment; and e) the ethical issues surrounding medical and rehabilitation services. Also examined will be psychological explanations of disability, their applications, and their implications for rehabilitation practice. A primary focus throughout the course will be on highlighting the perspectives that people with disabilities hold toward their life situations as well as the medical and rehabilitation settings and professionals they encounter. Cr 3.

HCE 612 Multicultural Counseling: Social & Cultural Foundations of Helping Diverse Families
This course focuses on developing multicultural awareness, understanding influences of culture and worldviews across the life cycle, examining issues of diversity, i.e., race, ethnicity, gender, age and disability in human interactions and recognizing attitudes and perceptions of diverse populations. The effects of developmental, bio-psychosocial changes including disability on individuals and their families within a cultural context are explored. The course examines worldviews, values and beliefs about diverse groups reflecting differences in race, ethnicity, gender, age and disability and family dynamics within a pluralistic society. Students will develop multicultural awareness of counseling competencies relative to diversity including disability, within rehabilitation and counseling practice. The course also introduces cultural foundations of human growth and development, and effects of cultural values and traditions across the lifespan. Implications for counseling the culturally different introduces a framework to guide rehabilitation and counseling professionals in serving diverse populations and their families, inclusive of differences in race, ethnicity, gender, age and disability. A field experience of between 5-10 hours with an associated report is required. Cr 3.

HCE 615 Vocational Counseling and Placement in Rehabilitation
This course encompasses the theoretical foundations of vocational counseling, the vocational implications of disability, the application of occupational and labor market data, and vocational choice with rehabilitation consumers. The use of job selection, analysis, and modification, and matching skills in the development of work and career options for persons with disabilities is included. The course also presents the role, functions, and strategies used by rehabilitation professionals in job placement and the supported employment of persons with severe disabilities. Accommodation of rehabilitation consumers in accordance with federal statutes, such as the Americans with Disabilities Act (ADA), is examined in the context of a multicultural society. Cr 3.

HCE 619 Recovery-Oriented Origins of Psychiatric Rehabilitation Practice
This course covers the historical, scientific, professional, and societal beliefs that have surrounded diagnostic psychiatry and the concepts of recovery from mental illness. Particular emphasis is given to recovery-oriented standards of care, ex-patients movement, legal rights and protections, medications, alternative treatments, trauma, and ethical issues in service delivery. Students will also explore their own values and motives for entering the field and examine the strengths and liabilities they may bring to their work. Cr 3.

HCE 620 Fundamentals of Counseling Theories
This course is for those who are or will be engaged in counseling in an educational or mental health setting. Selected theories and related techniques are closely examined. Research literature that has a bearing on the effectiveness and non-effectiveness of counseling is reviewed. Cr 3.

HCE 621 Fundamentals of Counseling Skills
This course emphasizes the development of fundamental counseling skills, such as attending behavior, listening, reflection of feeling, paraphrasing, and questioning. The course examines the process and content of the counseling interview as well as verbal and nonverbal factors that influence the interactions within the counseling relationship. The primary focus is to help the student develop greater self-knowledge and skills in interpersonal communication within the counseling relationship. Prerequisite: Open only to matriculated graduate students; HCE 500 (for school counseling and mental health counseling concentrations, HCE 510 (for rehabilitation counseling concentration), and HCE 621 or instructor permission. Cr 3.

HCE 622 Counseling Children and Adolescents
This course examines selected theories, related techniques, and skills for counseling children and adolescents. Attention is given to examining personal philosophies about working with children and adolescents and to the exploration of possible interventions for various counseling situations with these populations. Counselor effectiveness literature is reviewed. Prerequisites: matriculation in counselor education or school psychology and HCE 620 and HCE 668 (HCE 668 may be taken concurrently with permission of the instructor). Cr 3.

HCE 623 Theories and Applications of Play Therapy: Summer Institute
This intensive, one-week summer institute presents an overview of the various theories of play therapy and examines them in the social, cultural, and economic contexts in which they were first implemented. Applications of the theories to special settings and with special populations are explored. The course is an introductory course and is one of the required courses for becoming a registered play therapist. Prerequisite: none. Cr 3.

HCE 624 Child-Centered Play Therapy
This course is intended for students who wish to use a child-centered theory of play therapy in counseling children. It presents the theoretical framework of a child-centered approach to working with children and begins the necessary training for skill development in using this theory. Prerequisites: HCE 621 and HCE 622. Cr 3.

HCE 625 Adlerian Play Therapy
This course will examine Adlerian theory as it applies to clinical work with children and adolescents. Topics will include an overview of Adlerian theory and of play therapy, consultation with parents and teachers, encouragement, setting limits, understanding the goals of discouraged children, phases of therapy, and ethical and legal implications. Classes will include brief lectures, skill building exercises, discussion, and reflection. Prerequisite: graduate-level status. Cr 3.

HCE 626 Group Process and Procedures
This course focuses on basic principles of group development and on dynamics of group interaction. The improvement of facilitative skills is emphasized. Open to matriculated graduate students only. Cr 3.

HCE 627 Group Counseling Practicum
This course focuses on the development of concepts, attitudes, and skills necessary to lead counseling groups effectively in a variety of settings. Integration of group dynamics with counseling theory and group techniques is emphasized. Additionally, the behavior of the leader and participants is analyzed to promote a deeper understanding of group roles and functions. Prerequisites: HCE 621 and HCE 626 or by permission of the instructor. Cr 3.

HCE 640 Professional Issues for Mental Health Counselors
Mental health clinics, hospitals, substance abuse facilities, and social service agencies are among the various organizations involved in helping people through mental health counseling. This course examines the mental health needs of people in rural and urban communities and the views of mental health counseling held by those organizations who serve these people. Students will examine problems that organizations encounter in helping people and the consequences of services that interfere with helping. Attention is given to inter-professional and inter-organizational approaches to improving the quality of mental health counseling. Mental health counselor roles, functions, professional associations, credentialing, and ethical standards will also be examined. A special emphasis of the course is on examining mental health counseling from an historical, ethical, legal, philosophical, and developmental perspective. Cr 3.

HCE 641 Mind/Body Techniques
This course addresses the relationship between cognitive processes and physiology from a healing/personal wellness perspective. Various aspects of Eastern thought/religion, as well as Western behavioral medicine are explored in regard to physical health and emotional well-being. Research on the mind/body relationship is reviewed and discussed. Participants will be required to learn and practice meditative and mind/body techniques. Cr 3.

HCE 642 Perspectives on Chemical Dependency
This course focuses on the overall dynamics of chemical dependency and will serve as an introduction to understanding the various stages, processes, and effects of such addictions. Specific topics will include social and psychological dynamics of chemical dependency involving family, peers, and co-workers. The roles that professional educators, human service workers, and other helping professionals play in prevention, early intervention, and the various approaches to recovery and aftercare are considered in depth. Cr 3.

HCE 643: Psychopharmacology, Substance-Related Disorders & Integrated Co-Occurring Treatment
This course is designed to provide participants from non-scientific backgrounds with a basic understanding of the effects of licit and illicit drugs. In addition, the role of these drugs in distorting brain chemistry and promoting substance-related disorders will be explored. Relationships between co-occurring substance-related disorders and mental illnesses will be explored. Research on effectiveness of treatment and rehabilitation of persons with co-occurring disorders will be reviewed. Interactions among the biological, psychological/emotional, and behavioral aspects of substance abuse will be examined in relation to symptom reduction and identification, intervention strategies, and the treatment of substance use disorders particularly for people with mental illness. Cr 3.

HCE 644 Crisis Intervention
This course introduces students to the theory and practice of crisis intervention. A theoretical perspective is established, and short-term crisis counseling strategies are examined. Several different crisis situations will be discussed in relationship to agencies or persons responsible for interventions. Prerequisite: HCE 621 or by permission of the instructor. Cr 3.

HCE 645 Diagnosis and Treatment Planning
This course focuses on the diagnostic systems and their use in counseling. The development of treatment plans and the use of related services are reviewed. The roles of assessment, intake interviews, and reports are examined. Prerequisite: HCE 621 or by permission of the instructor. Cr 3.

HCE 650 Basic Concepts in Couple and Family Counseling
This course will provide a historical context for the field of family therapy, as well as an exploration of the major theories that inform the current application of family therapy. Cr 3.

HCE 655 Human Sexuality for Counselors
This course provides information about human sexuality to heighten individual's awareness of his/her own sexuality and sexual issues, and to integrate this knowledge to improve the overall effectiveness of counseling skills. The course explores a wide spectrum of sexual behaviors and examines the relationships between sexuality, self-esteem, sex roles, and life styles. Emphasis is placed on developing an awareness of personal values associated with human sexuality. Prerequisite: HCE 621 or permission of instructor. Cr 3.
HCE 668 Human Development
This course examines the processes underlying growth and development across the life span from conception through childhood, adolescence, adulthood, and aging to death. The interaction of biological, cultural, and environmental factors will be considered in studying physical, cognitive, and psychosocial changes throughout the stages of life. This course includes a field experience. Cr 3.

HCE 670 Application of Family Systems Theories
This course is an advanced course focused on the application of family systems theories to several family case presentations. We will be focused on Structural, Bowenian, Communication, Psychodynamic Experiential, Narrative, and Integrative Models. Particular focus will be given to reflection on family-of-origin themes and the ways in which a deepened awareness of these themes can lead to more effective family counseling. Prerequisite: HCE 650 or permission of instructor. Cr. 3.

HCE 681 Clinical Supervision
This course introduces students to the practice of clinical supervision within the counseling profession. The course focuses on such topics as the history of supervision, supervision models, tasks and functions of supervision, relationships in supervision, supervisory responsibilities, administration, cultural differences, and ethical standards. An organizing principle of this course is to examine these topics from three perspectives: theoretical knowledge, skill development, and self-awareness. Prerequisite: master's degree in counseling, matriculated Psy.D. students, or by permission of the instructor. Cr 3.

HCE 686 Internship in Counselor Education
This course provides an opportunity for students to integrate formal coursework with on-the-job experience in selected institutions. Prerequisite: HCE 690. Cr 1-12.

HCE 687 Internship in Clinical Supervision
This course provides an opportunity to develop advanced skills in clinical supervision. Interns will be assigned to supervise master's level students in such courses as practicum and internship. Prerequisites: HCE 681 and HCE 694. Cr 3.

HCE 690 Individual Counseling Practicum Seminar
Through lecture, discussion, and group supervision students learn to apply professional knowledge and skills to the practice of counseling with individuals. Role playing, video and audio tapes, and demonstrations are used in helping students develop an integrated counseling style. This course is taken concurrently with HCE 691. Prerequisites: HCE 620, HCE 621, HCE 622 (school counseling specialty only), and HCE 626. Cr 3.

HCE 691 Individual Counseling Practicum Laboratory
This laboratory is an intensive experience in the direct application of counseling skills and techniques to individual clients within the context of counseling sessions. Audio and video tapes will be reviewed individually with a faculty supervisor. This course must be taken concurrently with HCE 690. Prerequisites: HCE 620, HCE 621, HCE 622 (school counseling specialty only), and HCE 626. Cr 3.

HCE 692 Advanced Individual Practicum
This is the advanced course in counseling practicum. In addition to building on the skills developed in HCE 690 (practicum), emphasis is placed on the structural analysis of typical client problems and the use of appropriate strategies of intervention. Other emphases include the staffing of actual cases and knowledge of community resources available to the counseling clientele. Prerequisite: HCE 690. Cr 3.

HCE 694 Practicum in Individual Supervision
This is an intensive supervised experience in applying specialized knowledge and skills to the practice of clinical supervision. Students will be assigned supervisees and through observation, audio/video tapes, and co-counseling, will both supervise and be supervised. Prerequisites: HCE 681 and matriculation in the CAS program. Cr 3.

HCE 695 Practicum in Play Therapy
This course is an intensive supervised experience, applying professional knowledge and skills in the practice of counseling children using play therapy techniques. Role-playing, video tapes, and demonstrations are used in helping each student develop an integrated counseling style. Prerequisites: HCE 621, HCE 622, HCE 623, HCE 624, and HCE 690. Cr 3.

HCE 699 Independent Study in Counselor Education
This course provides students the opportunity to pursue a project independently, planning, and exploring a topic of interest within the field of counseling. Most independent study projects are library-based; all are intellectually sound, and reflect a high caliber of performance. Specific content and methods of evaluation will be determined in collaboration with the instructor. An approved proposal is a necessary prerequisite to registration. Prerequisite: Open to matriculated students only. Cr 1-6.

HRD 500 College Mental Health
This course is focused on college mental health and the application of theory and practice to understand, intervene and enhance student mental health in a college environment. We will focus on mental health through an ecological theoretical model which views sociohistorical conditions, campus community systems, and individual developmental, social and psychological factors as determinants to student growth and success. Particular focus will be given to interrelated protective and risk factors across the various levels of systemic complexity. Individual and wider systemic influences and approaches will be explored. In addition, students will be given an opportunity to contribute to the mental health of the
college community through engaging in campus mental health and other related initiatives. This course will be open to: graduate students studying higher education or counselor education, and senior undergraduate students possibly pursuing a career in higher education or counseling. 3 Cr.

HRD 550 Using Technology in Adult Learning
This course combines readings about using technology in adult learning with hands-on practice with current technologies that may be used in teaching, advising, and managing programs for adult learners. While emphasis will be primarily on the online environment, issues related to technology in blended and face-to-face environments will also be treated. Hands-on experiences with selected learning platforms will be emphasized. Broader implications for technology-based learning such as academic integrity, accessibility, and assessment will be explored. 3 cr.

HRD 551 Spirituality in Adult and Higher Education
This course examines the role of spirituality in adult and higher education. Historical and contemporary perspectives on ways in which spiritual issues influence the lives of educators and learners are explored. Questions this course investigates include: What is spirituality? How are core practices in adult and higher education such as learning, facilitating, advising, training, and managing affected by spiritual principles? In what ways has spirituality influenced social change in adult education? How does understanding and practicing spiritual virtues influence the personal and professional lives of educators and learners? Cr 3.

HRD 554 Foundations of Academic Advising
This course examines the foundations of academic advising in higher education. Issues such as developmental advising, practice and delivery models, working with diverse populations, current research, ethics, and assessment practices are explored. Cr 3.

HRD 555 Introduction to Student Affairs in Higher Education
This course provides students with an overview of student affairs in colleges and universities. Particular attention will be given to historical developments as rooted in the emergence of the unique model of higher education in the U.S., to models of student development, to evaluation of the various models of student affairs organizations, and to emerging issues in managing student affairs programs. The intent is to provide students with the information and skills necessary to understand and evaluate the field as well as to assess their own interest and commitment to student affairs. Cr 3.

HRD 557 The Older Learner
This introductory course examines key issues such as demographic trends, theories of aging, problems and opportunities in later-life learning, productive retirement, and educational opportunities for elders. A major goal of the course is to invite professional educators to explore human aging with an eye toward improving teaching and/or program development with elder populations. Cr 3.

HRD 600 History and Philosophy of Adult Education
This course examines historical and philosophical foundations of adult education. Key trends and theoretical frameworks are explored. Students will be introduced to a range of adult education practice domains in Maine and elsewhere. Creating a "community of learners" and modeling other adult education practices is a central goal of this course. Cr 3.

HRD 601 Marketing Training and Adult Education
This course acquaints the student with the purpose, organization, function, methods, tools, and techniques of marketing within the setting of adult education, continuing education, and training programs. Attention is given to the development of a customized marketing plan, focusing on the research and planning phases of the plan. This is an applied course in which students spend a significant amount of time participating in hands-on learning experiences, working in teams. Cr 3.

HRD 615/PPM 615 Organizational Leadership
This foundational course considers contemporary perspectives, issues and strategies regarding the management of public sector organizations, the importance of public service and provides a basic understanding of public management theory and the application of theory to governmental and other public and nonprofit sector institutions. Topics covered include a wide range of public management concerns, leadership styles, emotional intelligence, persuasive communication, team building, decision making, organizational culture and change. The course prepares students to become managers and leaders of public and not-for-profit institutions who can enhance the capability of these institutions. The course presents a realistic view of effective management and leadership in government and nonprofit organizations and the ways in which these organizations work and interact and focuses on the creation of social and public value, keeping in mind that economic and private value creation is often a part of public and non-profit management. Cr 3.

HRD 630 Facilitating Adult Learning
This course examines the theory and practice of facilitating adult learning. The aim of the course is to develop a working knowledge of numerous approaches to facilitation including analysis of students' strengths and weaknesses in particular learning contexts. Special emphasis is placed on developing skills in making presentations and leading group discussions. Cr 3.

HRD 631 The Adult Learner
This course examines the social, psychological, economic, and cultural situation of the variety of adults served by adult education programs today. The aim of the course is to develop a theory of learning which is applicable to adults in diverse circumstances and with diverse goals, needs, and styles of learning. Attention is given to stages of adult growth, the development of learning goals, learning environments, and to a
HRD 633 Managing Adult Education and Human Resource Development
This course examines the administrative and leadership skills necessary for the development and management of units such as adult education centers, continuing education offices, and training and staff development departments in profit and nonprofit organizations. Particular attention is given to the development of mission statements, the use of advisory boards, community needs assessment approaches, personnel management, and the development of a management style. Cr 3.

HRD 636 Planning Programs for Adult Learners
This course presents the purpose, structure, functions, methods and techniques of planning programs for adult learners. The course emphasizes practice, skill acquisition, and competence in curriculum design and program development for adults with diverse needs and in diverse learning environments. The course covers both educational and training programs within organizations with attention given to the strategic role of program design and development in helping organizations achieve their mission and organizational objectives. This is an applied course in which students plan a specific program for adult learners. Cr 3.

HRD 639 The Heart of Teaching
This course explores the elements of fostering and supporting fundamental changes in adult learners through the process of teaching. Transformational learning theory is examined and applications to teaching are explored through exercises and discussion. Cr 3.

HRD 646 Global Perspectives of Adult Education and Practices
This course provides students with a broad overview of some of the historical roots and current practices of adult education internationally. It provides information about significant leaders and agencies, as well as subjects such as: women's education, literacy, peace and human rights, research, the environment, and new technology, as they relate to adult education. Cr 3.

HRD 649 Seminar in Adult Education and Human Resource Development
This seminar addresses current issues, problems, and topics in adult education and human resource development. Participants are to select, develop, and present topics of interest to them as well as benefit from presentations prepared by the instructor. Usually taken toward the end of the program, this seminar is an opportunity to apply knowledge and skill to problems of current interest in the field of adult education. Prerequisite: Open to matriculated students. Cr 3.

HRD 667 Action Research and Evaluation Methodologies
This course provides an overview of the role of action research within organizations and community settings. Techniques in survey development and evaluation strategies are emphasized. A number of methodologies is presented, such as: the normal group, the Delphi technique, assessment centers, performance appraisal, interviews and observation. Cr 3.

HRD 685 CAS Completion Project in Adult Learning
Students will undertake a major project of their own design as a final requirement for completion of the certificate of advanced study in adult learning. Students will participate in a support seminar and will make a formal presentation to an audience of program peers, faculty, colleagues, family, and friends. There are four options for projects: (1) field based study, (2) public policy initiative, (3) publishable theory paper, or (4) personal learning curriculum for adults. Prerequisite: open to graduate students accepted into the CAS in Adult Learning who have completed twenty-four credit hours. Cr 3.

HRD 687 Internship in Adult Education and Human Resource Development
Designed to provide professional experience in the student's selected area of concern. A plan for the internship is presented for approval to the student's advisor. On approval, the intern completes his/her planned program under the supervision and evaluation of a responsible person for the internship assignment. Prerequisite: Open to matriculated graduate students who have taken HRD 605 and with permission of the instructor. Cr 1-9.

HRD 698 Directed Study in Adult Education and Human Resource Development
This course provides students the opportunity to pursue a project independently, planning, and exploring an area of interest within the field of human resource development. The project must be field-based, intellectually sound, and reflect a high caliber of performance. Specific content and methods of evaluation are determined in conjunction with the faculty supervisor. An approved proposal is a necessary prerequisite to registration. Prerequisite: Open to matriculated graduate students who have taken HRD 605 and with permission of instructor. Cr 1-6.

HRD 699 Independent Study in Human Resource Development
This course provides students the opportunity to pursue a project independently, planning, and exploring a topic of interest within the field of human resource development. The project must be library-based, intellectually sound, and reflect a high caliber of performance. Specific content and methods of evaluation will be determined in collaboration with the instructor. An approved proposal is a necessary prerequisite to registration. Cr 1-6.

SED 518 Targeted and Individualized Instructional Strategies for Students with Disabilities
The primary purpose of this course is to learn and analyze principles and skills of teaching and learning which are effective with students who need more intensive and individualized teaching. The students would either currently have IEP's or are currently being served on Tier Two or
Three of the continuum of multi-tiered systems of student support. Students who are English Language learners with suspected disabilities are included. The course will address applying and analyzing evidence-based instructional and assessment strategies for progress toward learning goals. Prerequisite: SED 335, SED 540, or by program permission, Cr 3.

SED 520 Multi-Tiered Systems of Classroom Support
This course introduces participants to the concepts of multi-tiered systems of academic and behavior support, from the schoolwide to the classroom perspective, including students with suspected or identified disabilities. Participants will learn about the characteristics of MTSS at Tiers 1 and 2: prevention-based, focus on student performance, data-based decision making and problem solving, continuous progress monitoring, and using a continuum of evidence based interventions. Students are expected to establish a productive learning environment that includes classroom expectations, structuring the classroom, systems to positively acknowledge behavior, and to address minor problem behavior. The course includes an applied project as part of a 24-hour school-based field experience unless the course is part of an initial graduate certification program such as ETEP. Prerequisite SED 335 or SED 540 or Instructor permission. Cr 3.

SED 540 Learners Who Are Exceptional in General Education
The primary goal of this survey course is to construct an understanding and knowledge of the range of exceptionality, including students with disabilities and those identified as gifted and talented. The course is based on the following premises: a) students with disabilities are guaranteed an appropriate education that includes engagement with typically developing peers and is based on the general education curriculum to the greatest extent possible; and b) students who are gifted and talented should be educated appropriately based on their academic and artistic abilities. Topics include characteristics of areas of exceptionality; planning and strategies for differentiating instruction and universal design; assistive technology; state and federal laws regarding students who are exceptional; working with families; Response to Intervention (RTI); and collaboration between all school personnel. Cr 3.

SED 550 Teaching Gifted Students in the Regular Classroom
This course is for teachers who serve gifted/talented students within the structure of the regular classroom. Topics include adapting the "required" curriculum to meet the needs of students; teaching/facilitating independent/small group activities; using learning centers, task cards, and student contracts; working successfully with parents, resource teachers, and administrators; and considering current issues in gifted child education specific to the regular classroom environment. Cr 3.

SED 586/EDU 586 Integrated Internship
The mentored internship is an extensive field experience for candidates in the double certification general education and special education pathway. Candidates demonstrate commitment and skill in educating students with diverse abilities and backgrounds. The 900 hour total internship is evaluated according to the Maine Teaching Standards and fulfills the student teaching requirement for general education and 282 Teacher of Students with Disabilities certification. Prerequisite: matriculation in the integrated certification pathway of the Master of Science in Special Education and program permission. Cr 9 (1-3 credits per semester up to total of nine credits).

SED 612 Youth with Moderate-to-Severe Disabilities
This course is designed to assist and instruct educators about working with and supporting students who have moderate-to-severe disabilities. Person-first language and thinking are the basis of this course as different disabilities that fall into the moderate-to severe range are examined with attention to the definition, identification, causalities, needed environmental accommodations and adaptations, and general characteristics. In addition, a focus will be on issues and concerns related to youth with moderate-to-severe disabilities, including person-centered planning, transitioning out of school and into the community, assistive technology, sensory integration, life skills, mobility, assessment, and different therapies will also be investigated and discussed. Different educational approaches that may be used with students with moderate-to-severe disabilities will be examined. In accordance with person-first thinking, this course will use memoirs and autobiographies as the main texts. Cr 3.

SED 615 Positive Behavioral Interventions and Supports
This course examines the foundations and essential features of Positive Behavioral Interventions and Supports (PBIS) at two levels; classroom and individual. Students will gain an understanding of basic principles and measurement of behavior and conduct applied projects that include creating, implementing, and evaluating data-driven intervention plans. Cr 3.

SED 616 Reading Development and Instruction for Students with Moderate to Severe Disabilities
In this online course students will focus on selecting and designing effective reading instruction for K-12 students with moderate to severe disabilities in a range of educational settings. Topics include: the power of students' owning their growth as readers, hooking readers through their interests, reviewing reading programs and designing interventions and curriculum-based probes to assess progress. Prerequisites: EDU 620 and SED 540, or instructor permission. Cr 3.

SED 621 Teaching Functional Life Skills
An education that includes the acquisition of functional life skills is critical for children and young adults with autism, intellectual disabilities, and other developmental disabilities. This course addresses: selection of and teaching methodologies for an array of functional life skills, including assessment of pre- and post- intervention skill levels, data collection and the selection of evidence-based methodologies to enhance student learning. Cr 3.

SED 653/SPY 672 Assessment of Academic Achievement
This course is designed to prepare special educators, school psychologists, and other professionals who work in schools to select, administer, score, and interpret measures of academic achievement. Numerous measures of academic achievement, including published norm-referenced
SED 659 Education of the Gifted/Talented
This course is for individuals responsible for initiating, mainstreaming, and/or extending services for gifted/talented students. Topics for study include: a) identification procedures, b) curriculum development and implementation, c) administration and classroom management, d) staff development and community involvement, and e) evaluation of student growth and program effectiveness. Cr 3.

SED 660 Curriculum and Methods for Teaching the Gifted
This course is for individuals responsible for a) developing or modifying learning experiences for gifted/talented students at the elementary or secondary school level, b) implementing differentiated learning experiences within the regular classroom or through a special grouping arrangement, and/or c) creating/selecting instructional materials to support the implementation of differentiated learning experiences. Cr 3.

SED 662 Productive Thinking and the Gifted Learner
This course is for individuals responsible for a) identifying creative potential within students, b) planning and implementing learning experiences for nurturing creative thinking, c) selecting or developing instructional materials for enhancing creativity, d) establishing learning environments conducive to creativity, and/or e) evaluating program effectiveness and student growth in creativity.

SED 666 Models in Education of the Gifted
This course is for individuals responsible for choosing, adapting, or designing a model to serve gifted/talented students. Selected models prominent in the field are reviewed and critiqued. Prerequisite: SED 659 or SED 660 or permission of instructor. Cr 3.

SED 682 Special Education Regulations, Procedures, and IEP Team
This course is for educators working directly with students with suspected and identified disabilities. The course focuses on the role of special education in both a multi-tiered system of student support (MTSS) and the process for developing and implementing Individualized Education Programs (IEP). Participants examine current federal and state statutes and accompanying regulations governing special education services. Emphasis is placed on the functioning of the IEP team, including collaborating with families, from a teacher's or service provider's perspective. Prerequisite: SED 335 or SED 540, or program permission. Cr 3.

SED 684 Introduction to Special Education Administration
This course is designed to offer experience in administering special education programs. The course emphasizes the organization and administration of special education programs. A goal of the course is to give participants clear understandings of the decisions faced by regular and special educational leaders and of the skills and knowledge base necessary to perform effectively as leaders. Prerequisite: SED 540 or permission of instructor. Cr 3.

SED 687 Technology for Learning and Communicating
This course introduces students to the use of technology, including assistive technology, with all students, including those individuals with special learning and communication needs. A range of technologies will be examined from "low tech" devices such as simple switches to computers, adaptive devices, and software appropriate for individuals with disabilities. A variety of equipment, materials, software, and hardware will be available for student use, Cr 3.

SED 688 Internship in Teaching Students with Mild to Moderate Disabilities
Interns complete a 15 week semester-long or part-time equivalent mentored internship in special education services for students with mild or moderate disabilities in accordance with the Maine Teacher Certification Standards. A successful review of all the teaching standards is required for a passing grade for internship. Pre-requisites: Open to matriculated candidates in the Teaching Students with Mild to Severe Disabilities program or by permission of the Department of Educational Psychology and Exceptionality. Cr 3.

SED 693 Transitions Among Agency, School, and Community
This course introduces participants to the concepts of transition in four phases of special education services: (a) birth to five child development services to school programs, (b) special purpose schools and related services to school programs, (c) between schools in a school district, and (d) from school programs to post-secondary education and community life. Students develop knowledge of services and resources provided by agencies and special purpose schools birth to adult and skills in multi-disciplinary team planning. Prerequisite: one special education course or permission of instructor. Cr 3.

SED 695 Internship in Teaching Students with Severe Disabilities
Interns complete a 15 week semester-long or part-time equivalent mentored internship in special education services for students with severe disabilities in accordance with the Maine Teacher Certification Standards. A successful review of all the teaching standards is required for a passing grade for internship. Pre-requisites: Open to matriculated candidates in the Teaching Students with Mild to Severe Disabilities program or by permission of the Department of Educational Psychology and Exceptionality. Cr 3.

SED 697 Universal Design Implementation
This course provides in-depth preparation for ethical practices in behavior analysis. Drawing from the ethical standards of the Behavior Analyst

SPY 608 Professional Ethics in Behavior Analysis

This course emphasizes the dynamic relationships of social-emotional, academic, behavioral, and adaptive behavior functioning of students within educational and clinical settings, including ones that serve students with suspected and identified disabilities. This class includes 10 hours of educational and clinical settings, including ones that serve students with suspected and identified disabilities. This course includes practica experiences in which students practice in the administration, scoring, and interpretation of assessment procedures. This course emphasizes the dynamic relationships of social-emotional, academic, behavioral, and adaptive behavior functioning of students within educational and clinical settings, including ones that serve students with suspected and identified disabilities.

Prerequisites: SPY 601 and SPY 605 or instructor permission. Cr 3.

SPY 604 Functional Behavioral Assessment

This course examines a variety of behavior assessment methods addressing behavioral issues. Assessment techniques covered in the course emphasize a functional behavioral assessment methodology including interviews, observations, behavior rating scales, descriptive assessments, and functional analyses. This course includes practica experiences in which students practice in the administration, scoring, and interpretation of assessment procedures. This course emphasizes the dynamic relationships of social-emotional, academic, behavioral, and adaptive behavior functioning of students within educational and clinical settings, including ones that serve students with suspected and identified disabilities.

Prerequisites: SPY 601 or instructor permission. Cr 3.

SPY 605 Applied Behavior Analysis

The primary focus of this course is to provide graduate students with exposure to evidence-based systematic instruction methods that are used within school/agency settings. This course will review functional assessment procedures used to identify appropriate educational programs for students/clients. This course will emphasize instruction and practice in implementing instructional methods (e.g., shaping, chaining, discrete trial teaching, task analysis, incidental teaching, functional communication training, among others). Prerequisites: SPY 601 or instructor permission. Cr. 3.

SPY 606 Behavior Therapy

This course emphasizes the application of applied behavior analysis interventions in addressing socially meaningful behaviors within applied settings. This course will focus on the application of behavior analytic principles and procedures addressing both the decrease in disruptive behaviors and the increase in adaptive replacement behaviors. The course includes a blend of assigned readings, lecture, discussion, clinical case examples, and applied learning experiences. This course emphasizes the dynamic relationships of social-emotional, academic, behavioral, and adaptive behavior functioning of students within educational and clinical settings, including ones that serve students with suspected and identified disabilities.

Prerequisites: SPY 601 and SPY 605 or instructor permission. Cr 3.

SPY 607 Consultation in School Psychology

This course examines how school psychologists and behavior analysts provide consultation services in school and clinical settings. A review of research which outlines a variety of consultation roles and procedures with case studies and opportunities to explore the use of consultation as part of a problem-solving, data-based approach to consultation. This course emphasizes behavioral consultation and supervision models. This course emphasizes the dynamic relationships of social-emotional, academic, behavioral, and adaptive behavior functioning of students within educational and clinical settings, including ones that serve students with suspected and identified disabilities. This class includes 10 hours of applied learning experiences. Prerequisites: SPY 601, SPY 602, SPY 604, and SPY 605 or instructor permission. Cr 3.

SPY 608 Professional Ethics in Behavior Analysis

This course provides in-depth preparation for ethical practices in behavior analysis. Drawing from the ethical standards of the Behavior Analyst
This course provides training in knowledge and skills for the use of Response to Intervention (RTI) methods in school settings. Students learn how to select and use scientifically-validated intervention and assessment methods for three distinct instructional levels. Through readings, discussion, and practice, students will develop the skills necessary to design, implement, and evaluate comprehensive RTI programs in school settings. This course is appropriate for general and special educators, school-based specialists (e.g., schools psychologists, speech/language clinicians, and math/reading specialists) as well as other professionals interested in scientifically-based methods of learning outcomes for all children. Prerequisites: None. Cr 3.

SPY 620 Introduction to Multi-Tier Systems of Student Support for General and Special Education
This course provides advanced training in application of knowledge and skills related to multi-tier (MTSS) methods to support elementary mathematics instruction and assessment. Students will learn how to select and use universal benchmark screening measures, empirically-based core curricula, supplemental and intensive math interventions, and weekly progress measures. Through readings, discussion and practice, students will develop the skills necessary to set up, implement, and evaluate MTSS practices to support elementary math achievement for all students. Cr 3.

SPY 627 Advanced Multi-Tier Instruction and Assessment for Reading
This course will provide advanced training in application of knowledge and skills related to multi-tier (MTSS) methods to support instruction and assessment for students with reading disorders. Students will learn how to select and use universal benchmark screening measures, empirically-based core curricula, supplemental and intensive reading interventions, and weekly progress measures. Through readings, discussion and practice, students will develop the skills necessary to set up, implement, and evaluate MTSS practices to support reading achievement for all students. Cr 3.

SPY 670 Cognitive Affective Bases of Behavior
This course is an introduction to major models of cognition and affective behavior, including perception, attention, memory, information processing, and problem solution. The course addresses features of human learning based on research in the above areas. Prerequisites: Matriculation in Psy.D. in School Psychology or instructor permission. Cr 3.

SPY 671 Physical Bases of Behavior
This course examines neural, endocrine, and response systems that are related to attention, motivation, emotion, memory, and psychological and/or learning disorders. It includes consideration of typical and atypical patterns of development and neurological and health problems of children and adolescents. Prerequisites: None. Cr 3.

SPY 672 Assessment of Academic Achievement (co-listed with SED 653)
This course is designed to prepare special educators, school psychologists, and other professionals who work in schools to select, administer, score, and interpret measures of academic achievement. Numerous measures of academic achievement, including published norm-referenced tests, criterion-referenced tests, curriculum-based assessment and measurement, and performance-based assessments will be studied. Students will develop an understanding of how to use measures of academic achievement as part of a comprehensive problem-solving process that fits with responsive interventions in schools. Prerequisites: Matriculation in School Psychology or Special Education or instructor permission. School psychology students must complete EDU 600 and HCE 605 prior to taking SED 653/SPY 672. Cr 3.

SPY 673 Social Foundations of Behavior
This course provides knowledge and skills in the area of social psychology. The course includes an overview of basic social psychology methods.
and research findings as well as preparation of students to conduct assessment and intervention for social skills problems among school-age children. The course includes discussion of the importance of social skills and provide a rationale for promoting and teaching pro-social behavior. Students review and learn how to administer, score, and interpret both screening level and evaluation-level social skills assessment instruments. In addition, students review a variety of interventions and develop social skills interventions based on assessment information. Cr 3.

**SPY 674 Psychopathology**
This course acquaints the student with definitions of and development of normal versus abnormal behavior from infancy through adulthood as well as presents common classification systems for psychopathology. Continuity from normal to abnormal behaviors, behavior problems in children as indices of pathology, and the prediction of psychopathology in adolescence and adulthood are also considered. The course takes a developmental orientation to psychopathology and discusses specific disorders in terms of symptoms, age considerations, and family and sociocultural dynamics. Prerequisites: Matriculation in Psy.D. in School Psychology or instructor permission. Cr 3.

**SPY 675 Indirect Behavioral Assessment**
This course examines a variety of analog behavior assessment methods addressing social-emotional behavior issues. Assessment techniques covered in the course include psychosocial interviews, behavior rating scales, and adaptive behavior assessments. This course includes practica experiences in which students are supervised in the administration, scoring, and interpretation of assessment procedures. Prerequisites: EDU 600, HCE 605 and matriculation in Psy.D. in School Psychology or instructor permission. Cr 3.

**SPY 677 Cognitive Assessment**
This course is an examination of the historical and theoretical bases of individual differences and intellectual testing. It includes supervised practice in selection, administration, scoring, interpretation, and reporting of cognitive assessment results. Prerequisites: EDU 600, HCE 605 and matriculation in Psy.D. in School Psychology. Cr 3.

**SPY 679 Diversity in the Science and Practice of Psychology**
This course provides conceptual foundations and skills needed by psychologists to work with diverse client populations. Major topics include the history of psychology's role in diversity practices, building competencies to work with individuals from diverse backgrounds, and the role of research in promoting diversity. Prerequisites: Matriculation in Psy.D. in School Psychology or instructor permission. Cr 3.

**SPY 693 School Psychology Practicum I**
The 300-clock-hour practicum is an introductory supervised experience within a public school. Practicum I provides the student with introductory experiences in the culture and systems of school settings, instructional methods and materials, and school psychology practices. Graded Pass/Fail. Prerequisites: Matriculation in Psy.D. in School Psychology (Students must complete three credits during the first two years in the program). Cr 1.

**SPY 694 School Psychology Practicum II**
The 300-clock-hour practicum is an advanced supervised experience within a public school setting. Practicum II provides the student with experiences in psychological assessment, consultation, intervention, and other aspects of school psychology practice. Graded Pass/Fail. Prerequisites: Matriculation in Psy.D. in School Psychology and satisfactory completion of three credits of SPY 693 (Students must complete three credits during the final two years in the program). Cr 1.

**SPY 698 Statistics I**
This course provides training in the knowledge and skills necessary to select and use a range of statistical methods for educational and psychological research. Students will learn and use basic parametric and non-parametric statistical procedures, including Chi Square, t-tests, and Analysis of Variance. Prerequisites: EDU 600 or equivalent and permission of instructor. Cr 3.

**SPY 698 Statistics II**
This course provides training in advanced applications of statistical methods for educational and psychological research. Students will learn and use complex statistical procedures, such as Multiple Analysis of Variance, multiple regression, and structural equation modeling. Prerequisites: EDU 697 and permission of instructor. Cr 3.

**SPY 699 Independent Study in School Psychology**
This course provides students with opportunity to pursue a project independently, planning and exploring a topic of interest within the field of school psychology. The project must be research-based, intellectually sound, and reflect a high caliber of performance. Specific content and methods of evaluation will be determined in collaboration with the instructor. An approved proposal is a necessary prerequisite to registration. Prerequisites: Matriculation in Psy.D. in School Psychology. Cr var.

**SPY 709 History and Systems of Psychology**
This course covers the history of modern psychology. Beginning with the history of Western psychology, the course reviews the major historical, social, economic, and cultural factors that contributed to the rise of psychology as a distinct branch of science in Europe and the United States. The course includes readings and discussion of the similarities and differences between the science of human behavior and other scientific disciplines. Additionally, the course includes readings and discussion of the study of human behavior from other cultural traditions. Prerequisites: Matriculation in Psy.D. in School Psychology. Cr 3.
SPY 727 Advanced Academic Intervention Methods
This course provides training in knowledge and skills for the use of advanced educational intervention practices in school psychology. Students learn how to select, use, and interpret data from advanced academic achievement assessment and intervention methods appropriate for school psychology practice. Through readings, discussion, practice, and report-writing, students will develop the skills necessary to provide comprehensive intervention services for students with academic achievement difficulties. Prerequisites: Matriculation in Psy.D. in School Psychology, SPY 601, SPY 602, and SPY 605, or instructor permission. Cr 3.

SPY 729 Advanced Intervention Methods for Individuals with Behavioral and/or Developmental Disabilities
This course provides training in knowledge and skills for the use of advanced intervention practices in school psychology. Students learn how to select, use, and interpret data from advanced intervention measures appropriate for use with individuals who have developmental disabilities. Through readings, discussion, practice and report-writing students will develop the skills necessary to provide comprehensive intervention services for low-incidence and high-risk student populations. Prerequisites: Matriculation in Psy.D. in School Psychology, SPY 601, SPY 602, and SPY 605 or instructor permission. Cr 3.

SPY 730 Advanced Behavior Therapy
The primary focus of this course is to provide students with advanced training in the application of evidence-based behavior therapies in the assessment and treatment of depression, anxiety, and other related disorders in children, adolescents, and young adults. This advanced course includes role play, performance feedback, and self-evaluation of skills in implementing behavior therapies. This course includes instruction in methods for documenting the effectiveness of behavior therapies (data-based progress monitoring). Prerequisite: Matriculation in Psy.D. in School Psychology, SPY 601, SPY 605, and SPY 606, or instructor permission. Cr 3.

SPY 751 Advanced Research Seminar
This course examines research techniques appropriate for educational and clinical settings. The research techniques covered in the course emphasize a problem-solving assessment methodology with a particular focus on measuring progress toward reduction or elimination of problem behaviors. A selection of the research methods taught in the course will be utilized by students to conduct a doctoral dissertation related to best practices in school psychology. This course is usually taken in the semester before internship and is a prerequisite for SPY 759: Psy.D. Dissertation. Prerequisites: Matriculation in Psy.D. in School Psychology and instructor permission. Cr 3.

SPY 759 Psy.D. Dissertation
This course includes the activities necessary to design, implement, evaluate, and summarize a doctoral dissertation in the field of school psychology. Course participants will conduct a literature review and needs assessment to identify a research project. The project will be matched to an identified subject or sample to address specific research questions. Once appropriate informed consent for research is obtained, students will conduct the research and report the findings. Graded Pass/Fail. Prerequisites: Matriculation in Psy.D. in School Psychology, SPY 751, and instructor permission. Cr 3.

SPY 788 Pre-Doctoral Internship in School Psychology
The pre-doctoral internship is a 2000 hour field experience in school psychology under the supervision of a licensed psychologist in a public school and/or clinical setting. It is undertaken at the end of the program. Graded Pass/Fail. Prerequisites: Matriculation in the Psy.D. in School Psychology and instructor permission. Cr var. (total of 9 semester hours for the internship).
Muskie School of Public Service

Muskie School Overview

Director: Firooza Pavri

Professors: Bampton, Coburn, Edney, Joly, McDonnell, Pavri, Savage, Swanson; Associate Professors: Ball, Bolda, Hamilton, Huston, Kim, LaPlante, Lichter; Assistant Professors: Paulu; Practice Faculty: Sahonchik, Tupper, Ziller; Lecturer: Ghezi, LaSalle, Michaud-Stutzman

Academic Programs

The Edmund S. Muskie School of Public Service is a non-partisan education, research, and public service organization dedicated to educating leaders, informing policy and practice, and strengthening civic life. The School combines nationally recognized research programs with graduate degrees in Public Health (MPH), and Policy, Planning, and Management (MPPM). It also offers bachelor’s degrees and several minors through the School’s undergraduate Geography-Anthropology (GYA) and Tourism and Hospitality (TAH) programs, as well as a wide spectrum of certificates and certificates of graduate study. Muskie graduates work in many fields in both the public and private sectors.

The Muskie School is frequently sought after as a source of knowledge on issues of national, regional, state, and local importance. More than 150 faculty and staff engage in research and public service projects through externally funded grant and contract awards totaling $20 million. The School’s faculty and staff bring a practical, innovative approach to health, social, environmental, community, and economic development problems, and a commitment to spanning traditional boundaries among university, government, and nonprofit organizations. The School’s research and public service programs provide faculty and students with real-life experiences that expand and inform the educational experience. Many graduate students take advantage of the School's research programs through assistantships and internships.

Muskie School Research and Public Service

The Muskie School is home to the Catherine E. Cutler Institute for Health and Social Policy where staff are engaged in Maine and across the country in research, program evaluation, policy analysis, technical assistance, and training projects concentrated in four program areas: children, youth, and families; disability and aging; justice policy; and population health and health policy. The Cutler Institute conducts projects for federal, state, and local agencies as well as private foundations, and is committed to bringing the resources of the University to bear on problems of critical importance to Maine and the nation. Collaborative partnerships with agencies and organizations have served as vehicles for innovative policy and program development.

The Cutler Institute also houses several national research centers. The Maine Rural Health Research Center is one of seven federally funded centers focused on critical issues related to rural health in the United States. The National Child Welfare Resource Center for Organizational Improvement assists all fifty states with advances in public services for children and families. The Culter Institute’s research portfolio also includes the Casco Bay Estuary Partnership, the New England Environmental Finance Center and other initiatives that address sustainability issues, including urban growth, food systems, energy, and climate change.

Specialized laboratories administered by the Muskie School’s Geography-Anthropology program provide high-tech, hands-on research and teaching facilities that allow for student-faculty research collaborations. These include the Archaeology, Environmental Archaeology, Zooarchaeology, Qualitative Research, Cartography and Map Collections, and the Geographic Information System (GIS) Laboratories.

Certificates of Graduate Study

Certificates of graduate study are designed for working professionals and/or those exploring future opportunities for graduate study. Enrollment in a Certificate Program does not guarantee admission to the MPPM or MPH program.

The following certificates of graduate study are offered by the Muskie Public Health program:

- Health Policy and Management
- Healthcare Quality and Patient Safety
- Public Health

The following certificates of graduate study are offered by the Muskie Policy, Planning, and Management program:

- Applied Research and Evaluation Methods
- Policy Analysis
- Public and Nonprofit Management
Sustainable Development

Undergraduate Certificates

The following certificate is offered by the Program in Geography-Athropology:

- **Certificate in Applied Geographic Information Systems**

The following certificates are offered by the Program in Tourism and Hospitality:

- **Certificate in Event Planning and Management**
- **Certificate in Tourism Development and Planning**

Non-Matriculated Students

Public service professionals and community residents who have completed a bachelor's or more advanced degree may enroll in Muskie School courses as non-matriculated students. Non-matriculated students are required to fulfill all prerequisites for the courses in which they wish to enroll. Those interested in enrolling in the School’s courses are urged to contact instructors as early as possible. Students may also contact the Muskie School’s Student Affairs office for information on space availability and registration information. Taking classes as a non-matriculated student does not guarantee admission to a certificate, the MPPM or MPH program.

Graduate Transfer Credit

Students who have completed coursework in another graduate program at USM or elsewhere may petition the MPPM or MPH Academic Affairs Committee for transfer of up to 9 credit hours. Transfer credit may only be applied to completion of the degree if approved by the programs' Academic Affairs Committee.

Extramural Credit for Matriculated Students

Students who are matriculated in the MPPM or MPH master’s programs who would like to take a course offered by another department at USM or another university that is not a pre-approved elective or already cross-listed with a Muskie graduate degree program must obtain permission from their Muskie program’s chair prior to registering for the non-Muskie course.

Visit the Muskie School of Public Service website for more information.
Geography-Anthropology Overview

Professors: Bampton (Chair), Edney, Pavri, Savage, Swanson; Associate Professors: Hamilton, Kim; Professors Emeriti: Crader, Davis, Hodges, Tizon; Adjunct Faculty: Dobres, Lockridge, Director of USM-GIS: Valentine; Administrative Specialist: Demmons

The Geography-Anthropology program offers the following: Bachelor of Arts in geography-anthropology with tracks in (a) Sustainable Cultures & Communities, (b) Cultural & Natural Heritage Management, and (c) Applied Geographic Information Systems (GIS) & Geospatial Analysis; Bachelor of Arts in geography-anthropology, elementary education; Bachelor of Arts in geography-anthropology, secondary education; minor in anthropology; minor in archaeology; minor in geography; minor in planning and GIS, and; Certificate in applied Geographic Information Systems (GIS).

Our interdisciplinary degree allows specialization in any one of three tracks:

1. Sustainable Cultures & Communities
2. Cultural & Natural Heritage Management
3. Applied Geographic Information Systems (GIS) & Geospatial Analysis

Along with the graduate Master's in Policy, Planning and Management program, the Geography-Anthropology program offers an accelerated admissions, undergraduate-graduate program resulting in a Bachelor of Arts in Geography-Anthropology and a Masters in Policy, Planning and Management in an accelerated time-frame.

Minors offered by the Geography-Anthropology program are intended for those students with a major other than geography-anthropology who wish to broaden their educational experience in a formally designated program of study. Each course of study emphasizes common interests in the relationship between human populations and their natural and built environments. Faculty, serving as both experts in the classroom and the community, engage in cutting-edge research and analysis that directly influences our broader understanding of past and current human interactions with the environment.

The Geography-Anthropology program resides within the Edmund S. Muskie School of Public Service. The Muskie School of Public Service is an education, research, and public service school dedicated to educating leaders, informing policy and practice, and strengthening civic life. The School combines the expertise of nationally recognized research programs with undergraduate programs in geography-anthropology and tourism and hospitality graduate programs in policy, planning and management, public health, and a doctoral program in public policy.

Specialized laboratories provide high-tech, hands-on learning environments. The labs serve not only as research facilities, but also as teaching facilities, allowing for student-faculty research collaborations. Opportunities are available for independent student research projects, and work-study positions in most of our laboratories.

Our facilities include:

Archaeology Laboratory

The Archaeology Laboratory located in 317 Bailey Hall provides facilities for research in archaeology and related areas. Various research collections are available, primarily from Maine, Alaska, and the Caribbean. The Archaeology Laboratory also houses collections of materials excavated by USM and a small library including books, journals, slides, and maps.

Environmental Archaeology Laboratory

The Environmental Archaeology Laboratory located in 318 Bailey Hall provides resources for research and teaching in archaeology and related areas. Current collections include a comparative faunal collection specializing in fish, birds, and shellfish of the Gulf of Maine and the Caribbean. The laboratory also houses comparative and excavated plant remains from the and a small library including books, journals, slides, and maps.

Zooarchaeology Laboratory

The Zooarchaeology Laboratory located in 316 Bailey Hall provides facilities for research and teaching in biological anthropology, zooarchaeology, human osteology, and human evolution. Current collections include casts of nonhuman primates and fossil hominids, and a comparative faunal collection specializing in mammals, birds, and fish reptiles of the Northeast.
Qualitative Research Laboratory

The Qualitative Research Laboratory is housed in 315 Bailey Hall and is dedicated to qualitative analysis, training, and instruction, including the use of digital media.

Map Collections

A regional map collection is housed in 318 Bailey Hall. Holdings include Maine maps, topographic maps, and various world regional maps.

GIS Laboratories

The USM Geographic Information Systems (GIS) Laboratories, located in 302 and 304 Bailey Hall (Gorham) and 128 Wishcamper (Portland), provide dedicated access to USM GIS resources and activities. The GIS Laboratories include a variety of data resources, geographic information system, remote sensing, and global positioning systems software, high resolution and large format scanners, high precision survey gear, and large format color printing.

Accelerated Graduate Pathway - Geography-Anthropology to Policy, Planning, and Management (MPPM)

The undergraduate B.A. in Geography-Anthropology (GYA) and graduate Master’s in Policy, Planning, and Management (MPPM) programs in the Muskie School of Public Service offer an accelerated undergraduate-graduate degree pathway for prospective students. The close disciplinary connections between these programs and their focus on the relationship between human populations and their natural and built environment, sustainability, community development, policy and planning allow for a unique undergraduate-graduate educational opportunity.

Geography-Anthropology majors with at least 84 undergraduate credit hours in the Core and GYA major may apply in their junior year for conditional admission to the Master’s in Policy, Planning, and Management (MPPM) program. Students conditionally accepted may take courses in their senior year which will count towards completion of both the BA in Geography-Anthropology and MPPM degrees.

- **Requirements**
- **Admission Information**

Requirements

Courses Available to Pathway Students

Students in their junior year in the Geography-Anthropology program who have completed at least 84 undergraduate credits will be eligible to enroll in the following courses at the graduate level:

**Group A: Geography-Anthropology Courses**

The following GYA courses will be available for graduate credit to conditionally admitted students. (Graduate credit is granted upon satisfactory completion of additional work as assigned by the course instructor).

GEO 303/GEO 503 Economic Geography  
GEO 320/GEO 520 Conservation of Natural Resources  
GEO 350/GEO 550 Geography of International Development GEO 402/GEO 502 Urban Geography  
GEO 455/GEO 555 Gender, Race and Class in the City GEO 305/GEO 505/GEO 605 Remote Sensing  
GEO 308/GEO 508/CPD 608 GIS Applications 1 GEO 408/GEO 518/GEO 618 GIS Applications 2  
GEO 481/GEO 581 Megacities and Global Planning Issues  
ANT 315/ANT 515 Ethnographic Methods: Ethics and Practice  
ANT 308/ANT 508 Environmental Archaeology  
ANT 360/ANT 560 Public Archaeology  
ANT 355/ANT 555 Public Interpretation in Anthropology

**Group B: Policy, Planning, and Management Courses**

The following MPPM courses may be taken without prerequisite:
The following MPPM courses may be taken with the indicated prerequisite

PPM 550 State and Regional Economic Development
Prereq: GEO 203 Urban and Regional Development

PPM 601 Quantitative Methods for Policy, Planning, and Management
Prereq: MAT 120 Introduction to Statistics

Requirements:

- Complete all requirements for the BA in Geography-Anthropology as detailed in this catalog.
- All conditionally admitted students will take PPM 612/PPM 512 during their senior year.
- Up to 18 credits from among the cross-listed and approved GYA-MPPM courses listed earlier can be taken by the senior year. Students then enter the MPPM program with 18 credits of requirements remaining (allowing completion of the MPPM degree in one additional year of full time study.)

Cross-listed courses may be curriculum requirements of the MPPM and GYA programs as follows:

Curriculum Requirements: BA in GYA

Courses in Group A (see below) may be used to meet the GYA requirements for Methods or Topical Electives within specified GYA tracks (provided they are taken from a minimum of two different professors) or other general electives within the major.

Course in Group B (see below) may be used to meet requirements for electives at the 300 level or above.

Curriculum Requirements: MPPM

The following courses in Group A count as electives in the MPPM Sustainable Development & Geospatial Technologies concentration

GEO 303/GEO 503 Economic Geography
GEO 305/GEO 505 Remote Sensing
GEO 308/GEO 508 Geographic Information Systems I
GEO 408/GEO 518 Geographic Information Systems 2
GEO 320/GEO 520 Conservation of Natural Resources
GEO 402/GEO 502 Urban Geography
GEO 481/GEO 581 Megacities and Global Planning Issues
ANT 306/ANT 506 Public Archaeology
ANT 308/ANT 508 Environmental Archaeology
ANT 315/ANT 515 Ethnographic Methods

The following courses in Group A count as electives in the MPPM Public Policy concentration

GEO 302/502 Gender, Work and Space
GEO 455/GEO 555 Gender, Race and Class in the City
GEO 308/GEO 508 Geographic Information Systems I
GEO 408/GEO 518 Geographic Information Systems II

The field experience/internship elective for GYA may be used to meet the public service internship elective for MPPM provided the internship is taken during the Senior Year, meets the requirements for the MPPM public service internship experience and is approved by the MPPM chair (or designee) prior to beginning the internship.

Admission Information

In order to gain full admission into the Master of Arts in Policy, Planning and Management, a student must meet the following admission standards:

- Choose a major in Geography-Anthropology, Environmental Science and Policy, or Economics
- Earn at least a B for all courses in these majors, as well as in any 500-level graduate courses taken at the undergraduate level
- Earn a cumulative GPA of 3.0 at time of matriculation into graduate program.
- Complete the following courses with grades of B or better: a course in Statistics that meets USM’s Quantitative Reasoning Core...
How to Apply:

- On the Common App, select your preferred choice of major, making sure it is one that qualifies for the Accelerated Graduate Pathway you’re choosing; then you will see the following option: “Please indicate your interest in one of the following accelerated pathway options at the University of Southern Maine” from which you can select a Pathway.

- In the University of Maine System application, select your First Choice Major, making sure it is one that qualifies for the Accelerated Graduate Pathway you’re choosing; then you will see the following drop-down menu: Accelerated Graduate Degree Pathway (First Choice Major), from which you can select a Pathway.

- If you are a Transfer or Continuing Student, please contact the University of Southern Maine Advising Office to meet with an academic advisor who can review your previous coursework and determine your eligibility for entering the Accelerated Graduate Pathway. Please call (207) 780-4040 or email: usm.advising@maine.edu

### BA in Geography-Anthropology - Elementary Teacher Education

#### Description

The Geography-Anthropology program offers teacher certification tracks for prospective teachers at both the elementary and secondary education levels. These tracks are designed to provide prospective elementary and secondary teachers a strong academic foundation in geography and anthropology.

#### Program Requirements

**Program Requirements**

**USM Core Curriculum (including pre-internship education courses):**

- EYE 108, Culture, Identity and Education, or EDU 100, Exploring Teaching as a Profession
- College Writing- ENG 100 (3 cr.) Cultural Interpretation (3 cr.) Quantitative- MAT 120 (4 cr.)
- Creative Expression (3 cr.) (THE 102 or 170 recommended)
- Socio-Cultural Analysis- HRD 200 Multicultural Human Development (3 cr.) Science Exploration- GEO 102 (4 cr.)
- Ethics- EDU 310 Purpose of Schooling in a Democracy (3 cr.)
- Cluster- EDU 305 Foundations of Cultural and Linguistic Diversity, SED 335 Students with Exceptionalities in General Education, and SED 420 Multi-Tiered Systems of Educational Support (9 cr.)
- Diversity and International met with EDU 305 and EDU 310 respectively.

**Geography-Anthropology Major Requirements:**
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 readiness requirements and the Core curriculum requirements.

The minimum number of credits (exclusive of the University's Core curriculum & Professional Education Internship requirements) required for the major: 36-39.

Students may concentrate in any one of the following tracks:

Sustainable Cultures and Communities
Cultural and Natural Heritage Management
Applied GIS and Geospatial Analysis

Students who select the Sustainable Cultures and Communities track must take:

- 9 credits of Required courses including GEO/ANT 105 Society, Environment, and Change, ANT 101 Cultural View, and GEO 101 Introduction to Human Geography
- 6 credits of Methods courses from designated list with at least 3 credits from each GEO & ANT
- 18 credits of Topical Electives from designated list with at least 6 credits from each GEO & ANT prefix and at least 6 credits at or above 300 level
- 3 credits of Capstone from designated list

Students who select the Cultural and Natural Heritage Management track must take:

- 10 credits of Required courses including GEO/ANT 105 Society, Environment, and Change, ANT 103 Introduction to Archaeology, and GEO 102 Physical Geography
- 9 credits of Methods courses from designated list with at least 3 credits from each GEO & ANT
- 15 credits of Topical Electives from designated list with at least 6 credits from each GEO & ANT prefix and at least 6 credits at or above 300 level
- 3 credits of Capstone from designated list

Students who select the Applied GIS and Geospatial Analysis track must take:

- 9 credits of Required courses including GEO/ANT 105 Society, Environment, and Change, GEO 103 Human-Environment Geography, and GEO 207 Map History: Making Sense of the World
- 15 credits of Methods courses from designated list
- 12 credits of Topical Electives from designated list with at least 3 credits from each Topical Elective Group and at least 6 credits at or above 300 level:
- 3 credits of Capstone from designated list

Additionally, all geography-anthropology majors are required to demonstrate writing competence by completing either two research papers or one research paper and one research product (e.g., poster, media project) in the major with grades of C or better, from two different professors, at least one semester prior to graduation. 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.

Electives:

Students must complete elective credit to complete the 120 credit hour degree. Students pursuing elementary teacher education must complete no fewer than 6 credits in each of the following content areas (outside their major): Math, English, Science, and Social Studies. Courses in the Core count toward the minimum of six credits.

Elementary Teacher Education (K-8) Requirements

All requirements for the Elementary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here:

(https://usm.maine.edu/teacher-education/elementary-teacher-education-0)
BA in Geography-Anthropology - Secondary Teacher Education

Description
The Geography-Anthropology program offers teacher certification tracks for prospective teachers at both the elementary and secondary education levels. These tracks are designed to provide prospective elementary and secondary teachers a strong academic foundation in geography and anthropology.

Program Requirements

USM Core Curriculum (including pre-internship education courses):

- EYE 108, Culture, Identity and Education, or EDU 100, Exploring Teaching as a Profession
- College Writing- ENG 100 (3 cr.) Cultural Interpretation (3 cr.)
- Quantitative- MAT 120 (4 cr.)
- Creative Expression (3 cr.) (THE 102 or 170 recommended)
- Socio-Cultural Analysis- HRD 200 Multicultural Human Development (3 cr.)
- Science Exploration- GEO 102 (4 cr.)
- Ethics- EDU 310 Purpose of Schooling in a Democracy (3 cr.)
- Cluster- EDU 305 Foundations of Cultural and Linguistic Diversity, SED 335 Students with Exceptionalities in General Education, and SED 420 Multi-Tiered Systems of Educational Support (9 cr.)
- Diversity and International met with EDU 305 and EDU 310 respectively

Geography-Anthropology - Major Requirements:

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 readiness requirements and the Core curriculum requirements.

The minimum number of credits (exclusive of the University's Core curriculum & Professional Education Internship requirements) required for the major: 36-39.

Students may concentrate in any one of the following tracks:

- Sustainable Cultures and Communities
- Cultural and Natural Heritage
- Management Applied GIS and Geospatial Analysis

Students who select the Sustainable Cultures and Communities track must take:

- 9 credits of required courses including:
  - GEO/ANT 105 Society, Environment, and Change
  - ANT 101 Cultural View
  - GEO 101 Introduction to Human Geography
- 6 credits of Methods courses from designated list with at least 3 credits from each GEO & ANT
- 18 credits of Topical Electives from designated list with at least 6 credits from each GEO & ANT prefix and at least 6 credits at or above 300 level
- 3 credits of Capstone from designated list

Students who select the Cultural and Natural Heritage Management track must take:

- 10 credits of Required courses including GEO/ANT 105 Society, Environment, and Change, ANT 103 Introduction to Archaeology, and GEO 102 Physical Geography
• 9 credits of Methods courses from designated list with at least 3 credits from each GEO & ANT
• 15 credits of Topical Electives from designated list with at least 6 credits from each GEO & ANT prefix and at least 6 credits at or above 300 level
• 3 credits of Capstone from designated list

Students who select the Applied GIS and Geospatial Analysis track must take:

• 9 credits of Required courses including:
  o GEO/ANT 105 Society, Environment, and Change
  o GEO 103 Human-Environment Geography
  o GEO 207 Map History: Making Sense of the World
• 15 credits of Methods courses from designated list
• 12 credits of Topical Electives from designated list with at least 3 credits from each Topical Elective Group and at least 6 credits at or above 300 level:
• 3 credits of Capstone from designated list

Additionally, all geography-anthropology majors are required to demonstrate writing competence by completing either two research papers or one research paper and one research product (e.g., poster, media project) in the major with grades of C or better, from two different professors, at least one semester prior to graduation. 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.

Electives:

In addition to in-depth knowledge of ANT and GEO gained through the major, students will complete coursework in HTY and other Social Studies disciplines to become highly qualified to teach. Required courses include:

• HTY 101 Western Civilization I
• HTY 102 Western civilization II
• HTY 121 United States History to 1800
• HTY 122 United States History 1800 – 1900 Or
• HTY 123 United States History since 1900 and
• 2 POS/ECO electives.

Secondary Teacher Education (7-12) Requirements

All requirements for the Secondary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here: (https://usm.maine.edu/teacher-education/secondary-teacher-education-0)

BA in Geography-Anthropology, Specialization in Applied GIS and Geospatial Analysis

Description

The Bachelor of Arts in Geography-Anthropology emphasizes the integration of the two disciplines and the common interests in examining the relationship between human populations and their natural and built environments. The major is an interdisciplinary degree program. Students enrolled in the major may specialize in any one of three tracks in: (1) Sustainable Cultures and Communities; (2) Cultural and Natural Heritage Management; or (3) Applied Geographic Information Systems (GIS) and Geospatial Analysis.

Upon graduation, students find employment in fields that involve archaeology work, cultural resource management, historic preservation, heritage and conservation management, museum, curation and archival work, environmental and land use management, community development work, non-profit advocacy, city and regional public service, tourism and recreation, and Geographic Information Systems (GIS) related careers in federal, state, local government, and private sector industries.

We focus on developing strong analytical, writing, oral and technical skills and prepare our students to enter the workforce or for future graduate work. Courses emphasize both conceptual and applied learning. Students engage in case studies, community-engaged and client-based projects, and intensive field and lab analysis.
Students have the opportunity to design, develop, research and communicate professional level projects with faculty mentors. As a result of data collection in the field or analysis in our specialized learning laboratories, students also have the opportunity to engage in scholarship through publications and conference presentations, and often receive assistantships and fellowships funded by such organizations as the National Science Foundation, NASA, and the Maine Space Grant consortium.

The program of study beyond the basic requirements should be planned carefully, in close consultation with the student's program 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 Geography-Anthropology program.

**Applied GIS & Geospatial Analysis** for those interested in developing theoretical and conceptual knowledge, and analytical and technical skills in GIS, remote sensing and geospatial analysis and engaged in workforce fields in federal, state and local government, and private sector industries including construction, engineering, energy, environmental & land use planning, utilities & transportation, real estate development and surveying.

**Program Requirements**

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 readiness requirements and the Core curriculum requirements. Students are required to take MAT 120 for the Quantitative Reasoning requirement of the Core.

The minimum number of credits (exclusive of the University's Core curriculum) required for this track is 39 credits.

Students who specialize in **Applied GIS and Geospatial Analysis** track must take:

**Required** (9 credits):

- Either GEO 105 or ANT 105 Society, Environment, and Change
- GEO 103 Human-Environment Geography
- GEO 207 Map History: Making Sense of the World

**Methods** (15 credits):

- GEO 305/GEO 505/GEO 605 Remote Sensing
- GEO 408/GEO 518/GEO 618 GIS Applications II
- GEO 408/GEO 518/GEO 618 GIS Applications II
- GEO 340 Digital Mapping

**Topical Electives** (Select courses from the following list to total at least 12 credits. Select at least three credits from each of the groups below and at least 6 credits at or above 300 level):

**Group 1**

- BUS 275 Applied Business Analysis
- BUS 345 Information Technology/Management Information Systems
- BUS 377 Information Visualization
- COS 160 Structured Problem Solving: Java (3 cr.) and COS 170 Structured Programming Laboratory (1 cr.)
- COS 246 Programming Topics
- COS 375 Web Applications Development
- COS 457 Database Systems
- LOS 318/LAC 318 Database Management

**Group 2**

- GEO 203 Urban & Regional Development
- GEO 209 Introduction to Land Use Planning OR GEO 210 Planning Maine Communities: Current Issues and Directions
- GEO/ESP 285 Global Environmental Issues and Sustainability
- GEO 481/GEO 581 Megacities and Global Planning Issues
- ANT 241/TAH 241 Tourism and Community Development
- ANT 306 Analysis of Archaeological Materials
Capstone (3 credits minimum):

Any one of the following will count toward the capstone requirement:

- GEO 438/GEO 538/GEO 638 Independent Study in GIS
- GEO 448/GEO 648 GIS Internship
- GYA 360 Field Mapping in the Island Environment: Data Collection to GIS
- GYA 300 Archaeology Field School
- GYA 400 Independent Study in Anthropology or Geography summer travel course, Study Abroad, or existing capstones.

Additionally, all geography-anthropology majors are required to demonstrate writing competence by completing either two research papers or one research paper and one research product (e.g., poster, media project) in the major with grades of C or better, from two different professors, at least one semester prior to graduation.

The maximum number of hours of internships, field experience, and/or independent studies that can be applied toward the major is nine hours. All students must meet with their advisors before registering for courses each semester.

BA in Geography-Anthropology, Specialization in Cultural and Natural Heritage Management

Description

The Bachelor of Arts in geography-anthropology emphasizes the integration of the two disciplines and the common interests in examining the relationship between human populations and their natural and built environments. The major is an interdisciplinary degree program. Students enrolled in the major may specialize in any one of three tracks in: (1) Sustainable Cultures and Communities; (2) Cultural and Natural Heritage Management; or (3) Applied Geographic Information Systems (GIS) and Geospatial Analysis.

Upon graduation, students find employment in fields that involve archaeology work, cultural resource management, historic preservation, heritage conservation management, museum, curation and archival work, environmental and land use management, community development work, non-profit advocacy, city and regional public service, tourism and recreation, and Geographic Information Systems (GIS) related careers in federal, state, local government, and private sector industries.

We focus on developing strong analytical, writing, oral and technical skills and prepare our students to enter the workforce or for future graduate work. Courses emphasize both conceptual and applied learning. Students engage in case studies, community-engaged and client-based projects, and intensive field and lab analysis.

Students have the opportunity to design, develop, research and communicate professional level projects with faculty mentors. As a result of data collection in the field or analysis in our specialized learning laboratories, students also have the opportunity to engage in scholarship through publications and conference presentations, and often receive assistantships and fellowships funded by such organizations as the National Science Foundation, NASA, and the Maine Space Grant consortium.

The program of study beyond the basic requirements should be planned carefully, in close consultation with the student's program 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 Geography-Anthropology program.

Cultural & Natural Heritage Management for those interested in developing theoretical and conceptual knowledge, and analytical and technical skills in fields involving the conservation, management, and sustainable development of archaeological, cultural, urban, rural and environmental resources.

Program Requirements
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 readiness requirements and the Core curriculum requirements. Students are required to take MAT 120 Introduction to Statistics for the Quantitative Reasoning requirement of the Core.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36-39 credits.

Students who select the **Cultural and Natural Heritage Management** track must take:

**Required** (10 credits):

- Either GEO 105 or ANT 105 Society, Environment, and Change
- ANT 103 Introduction to Archaeology
- GEO 102 Physical Geography

**Methods** (9 credits minimum, at least 3 credits from each GEO & ANT):

- ANT 306 Analysis of Archaeological Materials
- ANT 308 Environmental Archaeology
- ANT/TAH 315 Ethnography
- ANT/360/ANT 560 Public Archaeology
- GEO 209 Introduction to Land Use Planning
- GEO 305/GEO 505/GEO 605 Remote Sensing
- GEO 408/GEO 518/GEO 618 GIS Applications II

**Topical Electives** (Select courses from the following list to total at least 15 credits. At least six credits must be from the GEO & ANT prefix and at least 6 credits at or above 300 level):

- ANT 201 Human Origins
- ANT 202 Origins Of Civilization
- ANT/TAH 241 Tourism & Community Development
- ANT 250 Archaeology of South America
- ANT/TAH 261 Introduction to Cultural Tourism
- ANT 262/TAH 262 Women, Art & Global Tourism
- ANT 320 Anthropology & the Museum
- ANT 380 African American Historical Archaeology
- ANT 410 Japan: Archaeology Environmental History & Multicultural Perspectives,
- ANT 450/TAH 341 Tourism, Development & Sustainability
- GEO 203 Urban & Regional Development
- GEO 207 Map History: Making Sense of the World
- GEO 210 Planning Maine Communities: Current Issues & Directions
- GEO/ESP 285 Global Environmental Issues & Sustainability
- GEO 320/GEO 520 Conservation of Natural Resources
- GEO 450 Topics in Geography
- GEO 481/GEO 581 Megacities And Global Planning Issues
- GYA 210 Perspectives on Environment, Society & Culture Since 1750
- ECO 327 Natural Resource Economics
- ESP 200 Environmental Planning
- ESP 220 Introduction to Environmental Policy
- TAH 231 Introduction to Sustainable Tourism
- TAH 251 Ecotourism & Sustainable Development
- TAH 252 Tourism, Wildlife & Biodiversity.

**Capstone** (3 credits minimum):

Any one of the following will count toward the capstone requirement:

GYA 300 Archaeology Field School, GYA 350/351 Internship in Applied Geography-Anthropology, GYA 360 Field Mapping in the Island Environment: Data Collection to GIS, GYA 400, summer travel course, Study Abroad, or existing capstones
Additionally, all geography-anthropology majors are required to demonstrate writing competence by completing either two research papers or one research paper and one research product (e.g., poster, media project) in the major with grades of C or better, from two different professors, at least one semester prior to graduation.

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.

**BA in Geography-Anthropology, Specialization in Sustainable Cultures and Communities**

**Description**

The Bachelor of Arts in Geography-Anthropology emphasizes the integration of the two disciplines and the common interests in examining the relationship between human populations and their natural and built environments. The major is an interdisciplinary degree program. Students enrolled in the major may specialize in any one of three tracks in: (1) Sustainable Cultures and Communities; (2) Cultural and Natural Heritage Management; or (3) Applied Geographic Information Systems (GIS) and Geospatial Analysis.

Upon graduation, students find employment in fields that involve archaeology work, cultural resource management, historic preservation, heritage and conservation management, museum, curation and archival work, environmental and land use management, community development work, non-profit advocacy, city and regional public service, tourism and recreation, and Geographic Information Systems (GIS) related careers in federal, state, local government, and private sector industries.

We focus on developing strong analytical, writing, oral and technical skills and prepare our students to enter the workforce or for future graduate work. Courses emphasize both conceptual and applied learning. Students engage in case studies, community-engaged and client-based projects, and intensive field and lab analysis.

Students have the opportunity to design, develop, research and communicate professional level projects with faculty mentors. As a result of data collection in the field or analysis in our specialized learning laboratories, students also have the opportunity to engage in scholarship through publications and conference presentations, and often receive assistantships and fellowships funded by such organizations as the National Science Foundation, NASA, and the Maine Space Grant consortium.

The program of study beyond the basic requirements should be planned carefully, in close consultation with the student's program 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 Geography-Anthropology program.

**Sustainable Cultures & Communities** are for those interested in developing theoretical and conceptual knowledge, and analytical and technical skills in fields involving community and sustainable development, non-profit work, inter-cultural development work, city & regional planning.

**Program Requirements**

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 readiness requirements and the Core curriculum requirements. Students are required to take MAT 120 for the Quantitative Reasoning requirement of the Core.

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 36-39 credits.

Students who select the Sustainable Cultures and Communities track must take:

**Required (9 credits):**

- Either GEO 105 or ANT 105 Society, Environment, and Change
- ANT 101 Cultural View
- GEO 101 Introduction to Human Geography
Methods (6 credits minimum from list, at least 3 credits from each GEO & ANT):

- ANT/TAH 315 Ethnography: Methods, Ethics and Practice
- ANT 360 Public Archaeology
- GEO 305/GEO 505/GEO 605 Remote Sensing
- GEO 308/GEO 508/GEO 608 GIS Applications I
- GEO 209 Introduction to Land Use Planning
- TAH 211 Tourism Entrepreneurship

Topical Electives (Select courses from the following list to total at least 18 credits. At least six credits must be from each GEO & ANT prefix and at least 6 credits at or above 300 level):

- ANT 202 Origins of Civilization
- ANT 220 Indigenous Studies of North America
- ANT 232 The Anthropology of Sex and Gender
- ANT/TAH 233 Food and Culture
- ANT/TAH 241 Tourism & Community Development
- ANT 255 Cultures of Africa
- ANT/TAH 301 Global Issues in Travel and Tourism
- GEO 104 World Regions
- GEO 120 Geography of Maine
- GEO 170 Global History: Mapping the World across Cultures
- GEO 203 Urban & Regional Development
- GEO 210 Planning Maine Communities: Current Issues & Directions
- GEO 255 Making a Living: Workers in a Global Economy
- GEO 302/502 / WGS 302/502 Gender, Work & Space
- GEO 303/503 Economic Geography
- GEO/WGS 455 Making a Living: Workers in a Global Economy
- GEO 450 Topics in Geography
- GEO 481/581 Megacities and Global Planning Issues
- GEO 210 Planning Maine Communities: Current Issues and Directions
- ESP 275 Energy Use and Societal Adaptation
- TAH 251/ANT 299 Ecotourism & Sustainable Development
- TAH 251 Ecotourism & Sustainable Development
- ANT 450/TAH 341 Tourism, Development & Sustainability

Capstone (3 credits minimum):

Any one of the following will count toward the capstone requirement:

- GYA 300 Archaeology Field School
- GYA 350/351 Internship in Applied Geography-Anthropology
- GYA 360 Field Mapping in the Island Environment: Data Collection to GIS
- GYA 400, summer travel course
- Study Abroad, or existing capstones

Additionally, all geography-anthropology majors are required to demonstrate writing competence by completing either two research papers or one research paper and one research product (e.g., poster, media project) in the major with grades of C or better, from two different professors, at least one semester prior to graduation.

The maximum number of hours of internships, field experience, and/or independent studies that can be applied toward the major is nine hours. All students must meet with their advisors before registering for courses each semester.

Certificate in Applied GIS

Description

The Certificate in Applied GIS is designed to provide students and members of the professional community with Geographic Information
Systems skills. At all levels of the program, training focuses on the application of GIS skills in the workplace and in research environments. The certificate is open to undergraduates and graduates interested in developing GIS applications in their fields, those already holding degrees who are interested in developing GIS skills to apply to their own areas of expertise, or professionals interested in adding GIS to their lexicon of skills or retooling for a career change.

**Program Requirements**

The Certificate in Applied GIS consists of three required courses and one elective, totaling a minimum of 14 undergraduate or 12 graduate credit hours. All courses will be taught at USM. Some courses may be transferred from other campuses within the University of Maine system, as appropriate. Contact the Director of USM GIS for details. One course may be transferred from colleges outside the University of Maine System, on a case by case basis and as approved by USM faculty teaching that course.

In cases where students have already completed the listed course and with prior approval, alternate courses may be substituted for both requirements and electives to make up the minimum count of 14 undergraduate or 12 graduate credits. There is a minimum residency requirement of 3 courses or 9 credit hours. Students must complete all courses with a C- or better. Geography-Anthropology majors may use only one course in the certificate toward their major requirements. Majors in other programs should discuss similar restrictions with their advisors.

**Required courses:**

- GEO 305/GEO 505/GEO 605 Remote Sensing
- GEO 308/GEO 508/GEO 608 GIS Applications I
- GEO 408/GEO 518/GEO 618 GIS Applications II

**Electives**

Take at least one of the following for a minimum of 14 undergraduate or 12 graduate credit hours:

*These must be taken together*

- COS 160 Structured Problem Solving: Java (3 cr.)
- COS 170 Structured Programming Laboratory (1 cr.)

*This can be taken as a stand-alone*

- GEO 340 Digital Mapping

*These courses may either be taken alone, or some combination of the two for the total of three credits*

- GEO 438/GEO 538/GEO 638 Independent Study in GIS (1-3 cr.)
- GEO 448/GEO 648 GIS Internship (1-3 cr.)

**Minor in Anthropology**

**Description**

The Minor in Anthropology provides students with a broad introduction to this field, with courses drawn from cultural and applied anthropology, archaeology, and other subfields. This Minor is an excellent supplement for students from the other social sciences, humanities, environmental science, and other fields who are interested in human behavior, cultural diversity, environmental adaptation, and historical lifeways.

**Program Requirements**

Students must complete at least fifteen (15) credits of any anthropology (ANT) courses at USM, with no course grade lower than a C-. Courses should represent at least two subfields of anthropology and be taught by at least two different instructors. A maximum of one course may be either transferred from another institution or drawn from another major at USM, such as Linguistics, with approval from the student’s faculty advisor in the Program in Geography-Anthropology. No more than six credits combined may be from internships, field courses, or independent studies.
Minor in Archaeology

Description

The Geography-Anthropology program offers a minor in archaeology. The minor prepares students to examine past cultures through their material remains and environmental context. Students develop an appreciation for the management of cultural heritage and preserving the past.

Program Requirements

The minor in archaeology consists of a minimum of 15 credits. No grades of D will be counted toward fulfillment of the major or minor requirements:

Required:

- ANT 103 Introduction to Archaeology
- ANT 306 Analysis of Archaeological Materials (3-6 credits)

Any two or three of the following (to meet minor credit minimum):

- ANT 202 Origins of Civilization
- ANT 308 Environmental Archaeology (3-6 credits)
- ANT 320 Anthropology & the Museum
- ANT 360 Public Archaeology (3-6 credits)
- ANT 380 African American Historical Archaeology
- GYA 300 Archaeology Field School (3-6 credits)
- ANT 410 Japan: Archaeology, Environmental History and Multicultural Perspectives

Minor in Geography

Description

The Geography-Anthropology program offers a minor in geography. The Minor in Geography provides students a broad exposure to the discipline with courses focused on the interaction of humans and their natural and built environments, urban and regional development, and resource conservation, among other areas. Students also receive training in cutting edge geographic tools and techniques like GIS and remote sensing.

Program Requirements

The Minor in Geography shall consist of 15 credits minimum. No grades of D will be counted toward fulfillment of the major or minor requirements:

- GEO 101 Human Geography (3 credits) or GEO 102 Physical Geography and Lab (4 credits) or GEO 103 Human-Environment Geography (3 credits)
- GEO 305/GEO 505/GEO 605 Remote Sensing Remote Sensing (3 credits) or GEO 308/ GEO 508/ GEO 608 GIS Applications I GIS I (4 credits)

and 3 additional topical or methods GEO courses to make up 15 credits minimum. No more than six credits combined may be from internships, field courses, or independent studies.
Minor in Planning and GIS

Description

The Geography-Anthropology program offers a minor in planning and GIS. This minor focuses on augmenting cutting edge GIS and remote sensing skills and applying these to analyze land use and environmental planning problems and issues.

Program Requirements

The minor in Planning and GIS shall consist of a minimum of 16 credits. No grades of D will be counted toward fulfillment of the major or minor requirements:

- **Required courses:**
  - GEO 305/GEO 505/GEO 605 Remote Sensing
  - GEO 308/GEO 508/GEO 608 GIS Applications I
  - GEO 209 Introduction to Land Use Planning or GEO/ESP 210 or ESP 200 Environmental Planning

- **Choice of one from:**
  - GEO 408/GEO 518/GEO 618 GIS Applications II
  - GEO 338/ GEO 538/ GEO 638 Independent Study in GIS
  - GEO 448/ GEO 548/ GEO 648 Internship in GIS
  - ESP 220 Introduction to Environmental Policy
  - ESP 305 Community Planning Workshop

- **Choice of one from:**
  - GEO 203 Urban & Regional Development
  - GEO 303 Economic Geography
  - GEO 402/GEO 502 Economic Geography
  - GEO 320/GEO 520 Conservation of Natural Resources,
  - ESP 308/GE0285 Global Environmental Problems & Sustainability
  - ESP 220 Introduction to Environmental Policy
  - ESP 305 Community Planning Workshop

Minor in Social Justice

Description

Faculty Organizers:  Lorrayne Carroll, (ENG/CAHS), Susan Feiner (WGS and ECO/CAHS), Lydia Savage (GYA/Muskie/CMHS), Julie Ziffer (PHY/CMST)

Students will be carefully advised by the faculty organizers and programming events will bring minors together periodically.

The Social Justice minor will provide students with a set of courses focused on those ideas and practices directly related to the interdisciplinary field of social justice. Specifically, this minor offers students a set of queries, a field of research, and a body of theory and practice that student interests in economic access and opportunity, social and cultural production, and the multiple processes that inform the human experience of exploitation, and of justice, injustice, domination and resistance.

The Minor in Social Justice offers students an interdisciplinary curriculum grounded in the theory and practices of Social Justice and poses set of queries regarding the history and contemporary understandings of Social Justice. The Minor introduces students to, and develops their understanding of, Social Justice as a field of both research and praxis. Specific topics of study within the Minor may include conditions for economic access and opportunity; the processes of social and cultural production and reproduction; and diverse human experiences of exploitation, justice, injustice, domination and resistance. In order for students to develop and expand their study into praxis, the Minor emphasizes the practical knowledge necessary to be an informed and active citizen. This pursuit of academic and experiential knowledge prepares
students for various careers, such as those in government agencies; colleges and universities; consulting firms; research institutes; corporations; domestic and international nongovernmental organizations, and international development organizations. Students will be able to enter the workforce with an understanding of structural inequalities and some means through which to reduce and/or eliminate them.

**Program Requirements**

The minor is 18 credit hours with 6 courses from a minimum of 3 different departments.

1. Foundation/Introduction (3 credits)

Students are required to take at least one course (3 credits) that must not double count with student's major requirements.

- Introduction to Social Justice (new course to be developed)
- SOC 100 Introduction to Sociology
- GEO 101 Human Geography
- WGS 101 Introduction to Women and Gender Studies.

Other courses with permission, as appropriate

2. Critical Thinking (3 credits)

Students are required to take at least one course (3 credits) that must not double count with major.

- ECO 103 Critical Thinking in Economics
- GEO 255 Making a Living: Workers in the Global Economy
- SOC 210 Critical Thinking in Sociology
- WGS 201 Women, Knowledge, and Power

Other courses with permission, as appropriate

3. Upper-Level Electives (9 credits)

Students must take three courses (9 credits) that must not double count with major requirements.

- ECO 316 Foundations of International Development
- GEO 303 Economic Geography
- GEO 302 Gender, Work, and Space
- GEO 455 Gender, Race and Ethnicity in the City
- GEO 481 Megacities and Global Planning Issues
- SOC 316 Sociology of Gender SOC 327 Social Movements
- SOC 358 Sociology of Women's Work
- SOC 365 Sociology of the Body
- WGS 380 Politics of Difference

Other courses with permission, as appropriate

4. Community Engagement (3 credits)

Student must take one course (3 credits) that must not double count with major requirements.
Social Justice Internship (new course to be developed)
ENG 334 Literacy Studies
GYA 350/351 Internship in Applied Geography-Anthropology
SOC 395 Internship
WGS 4851 Internship
Other courses with permission, as appropriate

Minor in Tourism and Community Development

Description
The Geography-Anthropology program offers a minor in Tourism and Community Development. The minor provides a practical and critical understanding of the role of tourism in local and regional economic development, and will prepare students for careers in planning, economic development, travel and hospitality, and related areas.

Program Requirements
The minor in Tourism and Community Development consists of a minimum of 15 credits. No grades of D will be counted toward fulfillment of the major or minor requirements:

Required:
- ANT/TAH 241 Tourism & Community Development

Electives:
Four of the following (12 credits minimum):
- ANT/TAH 261 Introduction to Cultural Tourism
- ANT 262/TAH 262 Women, Art & Global Tourism
- ANT 299/TAH 251 Ecotourism & Sustainable Development
- ANT 450/TAH 341 Tourism, Development & Sustainability
- ESP 305 Community Planning Workshop
- GEO 203 Urban & Regional Development
- GEO 209 Intro to Land Use Planning or ESP 200 Environmental Planning
- GEO 210 Planning Maine Communities: Current Issues and Directions
- GYA 350/351 Internship in Applied Geography-Anthropology
- GYA 400 Independent Study in Anthropology or Geography
- TAH 211 Tourism Entrepreneurship

No more than six credits combined may be from internships, field courses, or independent studies.

Geography-Anthropology Course Descriptions

- GYA
- ANT
- GEO
- GEY
GYA 210 Perspectives on Environment, Society, & Culture Since 1750
Geography and Anthropology evolved together to understand and explain the complex relationships humans have with their environments. They have common conceptual foundations, common institutional frameworks, and parallel internal divisions. At the same time, they are marked by significant differences in their respective implementation of general concepts. By comparing and contrasting the histories of the two disciplines, we seek to come to a better understanding of what it means to be geographers and anthropologists. Prerequisite: One introductory course in Geography (GEO 101 or GEO 102) and one introductory course in Anthropology (ANT 101 or ANT 103) and sophomore standing. Cr 3.

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. 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. 3-6.

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 sites, mapping features 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 3-6.

GYA 350 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. Prerequisite: junior or senior standing in geography-anthropology and permission of instructor. Offered pass/fail only. Cr 1-6.

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. Prerequisite: permission of instructor. Variable credits will be offered.

Anthropology

ANT 101 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 103 Introduction to Archaeology
This course 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 New England, the Caribbean, and Japan. Cr 3.

ANT 105 Society, Environment, and Change
This course examines the complex and changing relationship between communities, cultures, and the environment over time and across multiple geographic scales. Adopting an interdisciplinary approach, the course considers the drivers behind societal and environmental change from early hunter-gatherer and farming communities to more complex contemporary landscapes across the world. The course concludes with a focus on identifying options to build sustainable, resilient, and adaptive social-ecological systems. Cr 3.

ANT 201 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 202 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
ANT 220 Indigenous Studies of North America
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 indigenous societies that followed the European invasion of North America. Cr 3.

ANT 232 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 241 Tourism and Community Development
Explores relationships between tourism, economic development, and communities. Topics include strategic planning, community participation, marketing and promotion, and conflict resolution. Case studies from Maine and beyond examine positive and negative aspects of linking community development to tourism and hospitality. Required for the Minor in Tourism and Community Development. Prerequisite: EYE. Cr. 3.

ANT 255 Cultures of Africa
Africa is a vast continent rich in cultural diversity. This course will explore a variety of African people and cultures south of the Sahara. Students will read ethnographic case studies about small-scale communities that focus on interrelated issues such as music, religion, politics, economics, geography, ethnicity, and gender. The course will consider the effects of colonial periods on indigenous populations but will emphasize post-independence Africans. Students will learn to challenge negative Western representations of Africa by focusing on the power and perseverance of African people and their cultures. Cr. 3.

ANT 261 Introduction to Cultural Tourism
This course explores cultural tourism, including how arts, crafts, local heritage, and history can be incorporated into tourism planning and development. Topics include the meaning, value, and potential tourism roles of historical sites, festivals and events, arts and artisans, archaeological and cultural heritage sites, and museums and educational institutions. Cr. 3.

ANT 262 Women, Arts & Global Tourism
All over the world women are improving their socioeconomic status, investing in their families, and contributing to community development through involvement in tourism arts and crafts production. We will learn about the historical and contemporary experiences of women from North and South America, Africa, Asia and other international settings. The course will explore themes of cultural heritage, culture change, traditional versus tourist art, gender inequality, empowerment and community development. 3 cr.

ANT 280 Prehistoric Art
This course takes a combined anthropological, historical, and critical approach and focuses on two case studies: 1) the Palaeolithic (Ice Age) art of Eurasia (ca. 32,400-10,000 years ago); and 2) the pre-colonial rock art of southern Africa (prior to 1652 AD). It reviews the diversity of forms and activities constituting prehistoric image making, and their numerous interpretations, including: “art for art’s sake,” magico-religion, structuralism, neo-evolutionary functionalism, and shamanism. It also considers the sociopolitical climate within which these theories have been proposed and identifies problematic assumptions and biases. The term “prehistoric art” is a major topic of discussion as students evaluate the relevance, appropriateness, and limitations of a western (European) definition of “art” for understanding non-Western image making. 3 cr.

ANT 301 Global Issues in Travel and Tourism
As one of the world’s largest industries, and one that brings travelers and host communities into close contact, tourism is a major force of social, economic, cultural and environmental change and sometimes conflict. This course delves into these issues from a mainly anthropological perspective, showing how tourism affects both travelers and communities in complex and contentious way—from commodification of culture to ethical quandaries such as sex tourism, the lure of western ideals and images, and changes in local economies and social institutions. The course also considers how travel, when planned and carried out according to ethical principles and guidelines, can be a force of change for the better, introducing travelers to other cultures, improving living conditions of local residents, and even protecting local environments, resources and lifestyles. 3 cr.

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 101, 102 or permission of instructor. Cr 3.

ANT 306 Analysis of Archaeological Materials
This course provides an opportunity for in-depth study of methods used in the analysis of archaeological materials after they are recovered from excavations. Students will work in teams to apply analytical techniques to archaeological site collections including ceramics; stone, bone, and shell artifacts; and archaeological soils and faunal remains. Credit will vary with the range of techniques covered in a particular semester. Prerequisite: ANT 103, or permission of instructor. Cr 3-6.

ANT 308/ANT 508 Environmental Archaeology
Students will be introduced to the analytical techniques that are commonly used in the archaeological study of past environments and environmental change. Topics to be covered include archaeological soils, preservation conditions, the reconstruction of past climates and landforms, and the analysis of plant and animal communities from archaeological evidence. In semesters when this course carries more than three credits, requirements will include a substantial research project. Prerequisite: junior status, and ANT 103 or GYA 300 or permission of instructor. Cr 3-6.

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. Prerequisites: ANT 101 and ANT 103. Cr 3.

ANT 315/ANT 515 Ethnography: Methods, Ethics, and Practice
This course offers students an overview of the methods of ethnographic observation and analysis, and of the ethical considerations of conducting such research. Students will be required to carry out ethnographic fieldwork, employing appropriate methods of data collection and analysis. Credit will vary depending on the scope of the fieldwork project, as determined by the instructor. Prerequisites: ANT 101 and one ethnography course or ANT 310. Cr 3-6.

ANT 320 Anthropology & the Museum
This course explores the complicated and sometimes fractious relationship between anthropology and museums of ethnography and natural history in both North America and abroad. Museums are ideological sites that produce particular (self-serving) understandings of Us and Them. Since the later-1800s, museums have figured prominently in how the public learns about non-western cultures while also being a place of legitimate anthropological research. As well, some of anthropology's more significant academic debates have been fought out in the museum. These overlapping relationships are the subject of this course. Cr. 3.

ANT 360/ANT 560 Public Archaeology
This course introduces students to the interpretation of archaeological information for the public benefit. Topics to be covered include museum exhibits, collection management, federal and state legislation, ethics, site conservation database management, and GIS. Students will work in teams to produce a finished product for presentation during Archaeology Awareness Week. The course includes prehistoric excavation and a trip to two museums. Credit varies with specific substantial topics and project breadth. Prerequisite: ANT 103 or permission of instructor. Cr 3-6.

ANT 380 African American Historical Archaeology
In this course, we look at how the identities of African Americans have been constructed over time by archaeologists, anthropologists, historians, geographers, and journalists. The course explores both regional and personal identities and the interrelationships between these two aspects of identity, and examines the effects of racism, ethnocentrism and sexism on identity construction. The course considers economy, historic environmental and geographical factors and how the construction of identity is affected by the experience of place. It concludes by examining contemporary race relations, the relationship to social scientists, and the public at large. Cr 3.

ANT 410 Japan: Archaeology, Environmental History and Multicultural Perspectives
This course will focus on understanding select aspects of ethnicity and the cultural character of Japan. A multi-disciplinary approach will examine archaeology, cultural anthropology, environmental history and modern and postmodern historical research and writings. The archaeological investigations will focus on ethnicity and long-term adaptations of the Japanese and Ainu people. The cultural anthropology component will examine Japanese cultural identity and rice agriculture. Further, it will examine social inequity within Japan. A case study focused on wolves revealed a complex environmental history and offers a perspective on human-animal relations in a deteriorating global biosystem. A multi-cultural perspective on the recent past examines the changing dimensions of national identity from an internal and external perspective. Cr. 3.

ANT 450/TAH 341 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.

Geography

GEO 101 Human Geography
This course examines social, economic, and political processes that shape the contemporary global landscape, with particular emphasis on the relationships between developed and developing regions of the world. Cartography, population trends, agricultural systems, migration, urbanization, and industrialization are among the topics covered. Cr 3.
GEO 102 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 103 Human-Environmental Geography
Using geographic perspectives, this course focuses on the changing nature of the earth's environment and the human role in these changes. Both direct and indirect human impacts on the biosphere, the atmosphere, and the hydrosphere are considered, including tropical deforestation and the loss of biodiversity, the human role in global climate change, and the impact of human actions on world fisheries. Local and regional examples will be incorporated. Cr 3.

GEO 104 World Regions
This course will familiarize students with the diversity of people and places in the world by examining the physical, political, and cultural geography of different regions of the world. Emphasis will be given to development of regions within a global framework. This course will add to the general education of students by developing their geographic skills and by enhancing their geographic awareness and knowledge of the world through various aspects of global diversity. Cr 3.

GEO 105 Society, Environment, and Change
This course examines the complex and changing relationship between communities, cultures, and the environment over time and across multiple geographic scales. Adopting an interdisciplinary approach, the course considers the drivers behind societal and environmental change from early hunter-gatherer and farming communities to more complex contemporary landscapes across the world. The course concludes with a focus on identifying options to build sustainable, resilient, and adaptive social-ecological systems. Cr. 3.

GEO 108/ESP 108/PPM 622 Introduction to ArcGIS
An introduction to the ArcGIS software, stressing basic operation of this popular GIS package. Topics covered include system navigation, data display, data download, and printing public domain and user-created geographical data sets. Cr 3.

GEO 120 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 170 Global History: Mapping the World across Cultures
World history, from the classical through the modern eras, embracing the cultures of Asia, Africa, Europe, and the Americas, examined through the maps that different cultures have made of their worlds. Students analyze maps from the collections of USM's Osher Map Library to reveal how world maps have variously embodied cultural preconceptions, religious convictions, scientific findings, and political concerns. Special attention to the processes of early modern and modern imperialism and globalization. Cr 3.

GEO 203 Urban & Regional Development
Students will survey contemporary patterns of urban and regional development through comparative analysis. Students will examine links between urbanization, employment, and social welfare in different political and economic contexts as the course moves from the global scale to the local. Students will be introduced to a series of research skills including the use of computer databases and spreadsheet programs, many of which will be of use in other courses. Cr 3.

GEO 207 Map History: Making Sense of the World
An international and interdisciplinary history of maps and spatial knowledge, this course uses the rare collections of USM’s Osher Map Library and online resources to explore the many ways in which different cultures and societies have made and used maps to variously comprehend, imagine, organize, control, and change the world and its parts. 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 & 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 255 Making a Living: Workers in a Global Economy
Our daily experiences shape and are shaped by changing economic landscapes through our patterns of work, consumption, and leisure. The course addresses the prospects and challenges for making a living in a global economy. We will examine a variety of perspectives on work, both paid and unpaid. We will pay particular attention to the connection of workers between and across places. The course discusses both new and old geographical divisions of labor and the restructuring of work and workplaces at the international, regional, local and household scales. Prerequisites: EYE. Cr 3.

**GEO 302 Gender, Work, and Space**
Students will examine the ways in which the workforce is divided by gender, race, class, and ethnicity and how location and space shape and sustain such divisions. Competing explanations for why women and minorities hold jobs that differ distinctly from jobs held by other workers will be examined. Students will learn how a geographic understanding of gender, race, ethnicity, and class can help explain more fully the current position of women in the economy. Cr 3.

**GEO 303/GEO 503 Economic Geography**
This course examines the intersection between economies and geography. Emphasis is placed on the social, cultural, and political contexts within which economies develop and are regulated and restructured. Students are introduced to the skills which allow them to interpret and understand the present economic landscapes and to evaluate the factors and trends that anticipate the future. Prerequisites: one of the following: ANT 101, GEO 101, GEO 203 Urban & Regional Development, ECO 101, ECO 102, or permission of instructor. Cr 3.

**GEO 305/GEO 505/GEO 605 Remote Sensing**
Theory and techniques of image processing and analysis for remotely sensed digital data acquired from airplane and satellite platforms. Topics include image enhancement and classifications, spectral analysis, and landscape change detection techniques. Practical applications of natural and built landscapes are considered using remotely sensed datasets and techniques. Cr 3.

**GEO 308/GEO 508/GEO 608 GIS Applications I**
Students are introduced to vector-based geographical information systems (GIS). Topics include overviews of geospatial technologies, spatial analysis, GIS data, system operation, the interpretation of results, and professional practices. The course comprises a weekly lecture and laboratory. Students are evaluated with tests, laboratory assignments, and on the basis of a substantial project. Cr. 4 for GEO 308; Cr. 3 for GEO 508/GEO 608.

**GEO 320/GEO 520 Conservation of Natural Resources**
This course examines the geographical approaches to natural resource use and management. It will offer the study of the geographic distribution and physical attributes of natural resources, their role in economic development, and the socio-political factors governing decision making about their use. Management strategies for forests, soils, wetlands, and energy resources are assessed. Recommended prerequisites: GEO 101, GEO 102, or GEO 103. Cr 3.

**GEO 340 Digital Mapping**
Students are exposed to the latest digital survey gear and integrated techniques with applications in geoscience, geography, and environmental science. Instrumentation includes both static and real-time kinematic GPS (global positioning system) and autolock servo-driven electronic total station. Detailed precision survey data are combined with geo-referenced maps and imagery in GIS software. Prerequisites: introductory course in GEY, GEO, or ESP, and additional 200-level course in any of the above areas. Cr 4.

**GEO 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 database covering the area surveyed. This course may be repeated once for credit. Offered Summer Session only. Prerequisite: permission of instructor. Cr 6.

**GEO 408/GEO 518/GEO 618 GIS Applications II**
Students explore the use of geographical information systems (GIS) in research and professional environments. Building upon knowledge and skills developed in GEO 308, students design and execute a substantial project. Project design focuses on generating hypotheses, planning time lines and individual work assignments, and identifying technical and data resources. Projected execution is undertaken using a variety of raster, vector, and graphical user interface (GUI) software, as appropriate. Prerequisite: GEO 308 or permission of instructor. Cr. 4 for GEO 408; Cr. 3 for GEO 518/618.

**GEO 438/GEO 538/GEO 638 Independent Study in GIS**
Students will work closely with a faculty member to develop and complete a course of study in a specialized aspect of GIS or remote sensing. Variable credits will be offered. Prerequisite: GEO 308 or instructor permission, and program approval. Cr 1-3.

**GEO 448/GEO 648 GIS Internship**
Students work with a public agency, private firm, municipality, nonprofit organization, or research unit, using geospatial technology to complete a clearly defined project under the direct supervision of an on-site professional. A USM faculty advisor who is directly involved with USM GIS oversees the internship. At the course's conclusion, students submit a portfolio including a log, samples of the work completed, and an evaluation from the on-site supervisor. Prerequisite: GEO 308, or instructor permission, and program approval. Cr 1-3.

**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.

**GEO 455/GEO 555 Gender, 'Race' and Class in the City**
This course will focus on the relationships among gender, "race," class and urban spaces in twentieth century U.S. cities. The course will explore how urban spaces reflect and perpetuate different relations of power, inequality, and identity. First, we explore how different frameworks for urban analysis help to explain the social and spatial organization of U.S. cities. We will develop a framework for urban analysis that integrates race, class, and gender, and draws upon the geographic concepts of place and scale. Second, we will apply our integrated framework to contemporary metropolitan processes and problems. Prerequisite: one of the following: GEO 302 or permission of instructor. Cr 3.

**GEO 481/GEO 581 Megacities and Global Planning Issues**
This course provides an overview of the interactive factors that shape the socio-economic and physical structures of megacities around the world. Students will examine the processes that influence urbanization and gain an understanding of the contemporary state of the world’s cities, with a particular focus on megacities. Students will be exposed to issues confronted by citizens, policy makers, and planners in those megacities. The course is organized geographically and will focus on selected megacities in Latin America, Africa, Asia, in addition to Europe, and the United States. Cr. 3.

**GEY 100 Volcanoes, Earthquakes & Moving Plates**
This course is an introduction to minerals, rocks, and the processes that have continually shaped the earth over hundreds of millions of years of geologic history. The course also explores how the movements of crustal plates generates earthquakes, volcanoes, continental rifting, sea floor spreading, subduction, and continental-scale mountain ranges. For core science course credit, registration in one of the following: GEY 101 or GEY 106 is required; concurrent registration is recommended. Cr 3.

**GEY 101 Lab Experiences in Geology**
This course has weekly lab sessions will focus on the basic skills of mineral identification, rock classification, and interpretation of topographic and geologic maps. Field trips to local geologic sites of interest will help illustrate rock types and geologic processes that shape our world. Traditional map, compass, and modern GPS techniques will be utilized. For core science course credit, registration in one of the following: GEY 100, GEY 103, or GEY 105 is required; concurrent registration is recommended. Cr 1.

**Geography-Anthropology Course List**

Geography-Anthropology

- **GYA**
- **ANT**
- **GEO**

**GYA 210 Perspectives on Environment, Society, & Culture Since 1750**
Geography and Anthropology evolved together to understand and explain the complex relationships humans have with their environments. They have common conceptual foundations, common institutional frameworks, and parallel internal divisions. At the same time, they are marked by significant differences in their respective implementation of general concepts. By comparing and contrasting the histories of the two disciplines, we seek to come to a better understanding of what it means to be geographers and anthropologists. Prerequisite: One introductory course in Geography (GEO 101 or GEO 102) and one introductory course in Anthropology (ANT 101 or ANT 103) and sophomore standing. Cr 3.

**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. 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.
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 sites, mapping features 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 3-6.

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. Prerequisite: junior or senior standing in geography-anthropology and permission of instructor. Offered pass/fail only. Cr 1-6.

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. Prerequisite: permission of instructor. Variable credits will be offered.

Anthropology

ANT 101 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 103 Introduction to Archaeology
This course 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 New England, the Caribbean, and Japan. Cr 3.

ANT 105 Society, Environment, and Change
This course examines the complex and changing relationship between communities, cultures, and the environment over time and across multiple geographic scales. Adopting an interdisciplinary approach, the course considers the drivers behind societal and environmental change from early hunter-gatherer and farming communities to more complex contemporary landscapes across the world. The course concludes with a focus on identifying options to build sustainable, resilient, and adaptive social-ecological systems. Cr. 3.

ANT 201 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 202 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 220 Indigenous Studies of North America
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 indigenous societies that followed the European invasion of North America. Cr 3.

ANT 232 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 241 Tourism and Community Development
Explores relationships between tourism, economic development, and communities. Topics include strategic planning, community participation, marketing and promotion, and conflict resolution. Case studies from Maine and beyond examine positive and negative aspects of linking community development to tourism and hospitality. Required for the Minor in Tourism and Community Development. Prerequisite: EYE. Cr. 3.

ANT 255 Cultures of Africa
Africa is a vast continent rich in cultural diversity. This course will explore a variety of African people and cultures south of the Sahara. Students will read ethnographic case studies about small-scale communities that focus on interrelated issues such as music, religion, politics, economics, geography, ethnicity, and gender. The course will consider the effects of colonial periods on indigenous populations but will emphasize post-independence Africans. Students will learn to challenge negative Western representations of Africa by focusing on the power and perseverance of African people and their cultures. Cr. 3.

ANT 261 Introduction to Cultural Tourism
This course explores cultural tourism, including how arts, crafts, local heritage, and history can be incorporated into tourism planning and development. Topics include the meaning, value, and potential tourism roles of historical sites, festivals and events, arts and artisans, archaeological and cultural heritage sites, and museums and educational institutions. Cr. 3.

ANT 262 Women, Arts & Global Tourism
All over the world women are improving their socioeconomic status, investing in their families, and contributing to community development through involvement in tourism arts and crafts production. We will learn about the historical and contemporary experiences of women from North and South America, Africa, Asia and other international settings. The course will explore themes of cultural heritage, culture change, traditional versus tourist art, gender inequality, empowerment and community development. 3 cr.

ANT 301 Global Issues in Travel and Tourism
As one of the world’s largest industries, and one that brings travelers and host communities into close contact, tourism is a major force of social, economic, cultural and environmental change and sometimes conflict. This course delves into these issues from a mainly anthropological perspective, showing how tourism affects both travelers and communities in complex and contentious way—from commodification of culture to ethical quandaries such as sex tourism, the lure of western ideals and images, and changes in local economies and social institutions. The course also considers how travel, when planned and carried out according to ethical principles and guidelines, can be a force of change for the better, introducing travelers to other cultures, improving living conditions of local residents, and even protecting local environments, resources and lifestyles. 3 cr.

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 101, 102 or permission of instructor. Cr 3.

ANT 306 Analysis of Archaeological Materials
This course provides an opportunity for in-depth study of methods used in the analysis of archaeological materials after they are recovered from excavations. Students will work in teams to apply analytical techniques to archaeological site collections including ceramics; stone, bone, and shell artifacts; and archaeological soils and faunal remains. Credit will vary with the range of techniques covered in a particular semester. Prerequisite: ANT 103, or permission of instructor. Cr 3-6.

ANT 308/ANT 508 Environmental Archaeology
Students will be introduced to the analytical techniques that are commonly used in the archaeological study of past environments and environmental change. Topics to be covered include archaeological soils, preservation conditions, the reconstruction of past climates and landforms, and the analysis of plant and animal communities from archaeological evidence. In semesters when this course carries more than three credits, requirements will include a substantial research project. Prerequisite: junior status, and ANT 103 or GYA 300 or permission of instructor. Cr 3-6.

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. Prerequisites: ANT 101 and ANT 103. Cr 3.

ANT 315/ANT 515 Ethnography: Methods, Ethics, and Practice
This course offers students an overview of the methods of ethnographic observation and analysis, and of the ethical considerations of conducting
such research. Students will be required to carry out ethnographic fieldwork, employing appropriate methods of data collection and analysis. Credit will vary depending on the scope of the fieldwork project, as determined by the instructor. Prerequisites: ANT 101 and one ethnography course or ANT 310. Cr 3-6.

ANT 320 Anthropology & the Museum
This course explores the complicated and sometimes fractious relationship between anthropology and museums of ethnography and natural history in both North America and abroad. Museums are ideological sites that produce particular (self-serving) understandings of Us and Them. Since the later-1800s, museums have figured prominently in how the public learns about non-western cultures while also being a place of legitimate anthropological research. As well, some of anthropology's more significant academic debates have been fought out in the museum. These overlapping relationships are the subject of this course. Cr. 3.

ANT 355/ANT 555 Public Interpretation in Anthropology
Interpretation of anthropological information for the public using video, audio, photos, and other digital media. Students will work individually or in teams to create products for museums, schools, online, or in other public venues. Prerequisite: permission of instructor. Cr 3.

ANT 360/ANT 560 Public Archaeology
This course introduces students to the interpretation of archaeological information for the public benefit. Topics to be covered include museum exhibits, collection management, federal and state legislation, ethics, site conservation database management, and GIS. Students will work in teams to produce a finished product for presentation during Archaeology Awareness Week. The course includes prehistoric excavation and a trip to two museums. Credit varies with specific substantial topics and project breadth. Prerequisite: ANT 103 or permission of instructor. Cr 3-6.

ANT 380 African American Historical Archaeology
In this course, we look at how the identities of African Americans have been constructed over time by archaeologists, anthropologists, historians, geographers, and journalists. The course explores both regional and personal identities and the interrelationships between these two aspects of identity, and examines the effects of racism, ethnocentrism and sexism on identity construction. The course considers economy, historic environmental and geographical factors and how the construction of identity is affected by the experience of place. It concludes by examining contemporary race relations, the relationship to social scientists, and the public at large. Cr 3.

ANT 410 Japan: Archaeology, Environmental History and Multicultural Perspectives
This course will focus on understanding select aspects of ethnicity and the cultural character of Japan. A multi-disciplinary approach will examine archaeology, cultural anthropology, environmental history and modern and postmodern historical research and writings. The archaeological investigations will focus on ethnicity and long-term adaptations of the Japanese and Ainu people. The cultural anthropology component will examine Japanese cultural identity and rice agriculture. Further, it will examine social inequity within Japan. A case study focused on wolves revealed a complex environmental history and offers a perspective on human-animal relations in a deteriorating global biosystem. A multi-cultural perspective on the recent past examines the changing dimensions of national identity from an internal and external perspective. Cr 3.

ANT 450/TAH 341 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.

Geography

GEO 101 Human Geography
This course examines social, economic, and political processes that shape the contemporary global landscape, with particular emphasis on the relationships between developed and developing regions of the world. Cartography, population trends, agricultural systems, migration, urbanization, and industrialization are among the topics covered. Cr 3.

GEO 102 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 103 Human-Environmental Geography
Using geographic perspectives, this course focuses on the changing nature of the earth's environment and the human role in these changes. Both direct and indirect human impacts on the biosphere, the atmosphere, and the hydrosphere are considered, including tropical deforestation and the loss of biodiversity, the human role in global climate change, and the impact of human actions on world fisheries. Local and regional examples will be incorporated. Cr 3.

GEO 104 World Regions
This course will familiarize students with the diversity of people and places in the world by examining the physical, political, and cultural geography of different regions of the world. Emphasis will be given to development of regions within a global framework. This course will add to
the general education of students by developing their geographic skills and by enhancing their geographic awareness and knowledge of the world through various aspects of global diversity. Cr 3.

GEO 105 Society, Environment, and Change
This course examines the complex and changing relationship between communities, cultures, and the environment over time and across multiple geographic scales. Adopting an interdisciplinary approach, the course considers the drivers behind societal and environmental change from early hunter-gatherer and farming communities to more complex contemporary landscapes across the world. The course concludes with a focus on identifying options to build sustainable, resilient, and adaptive social-ecological systems. Cr. 3.

GEO 108/ESP 108/PPM 622 Introduction to ArcGIS
An introduction to the ArcGIS software, stressing basic operation of this popular GIS package. Topics covered include system navigation, data display, data download, and printing public domain and user-created geographical data sets. Cr 3.

GEO 120 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 170 Global History: Mapping the World across Cultures
World history, from the classical through the modern eras, embracing the cultures of Asia, Africa, Europe, and the Americas, examined through the maps that different cultures have made of their worlds. Students analyze maps from the collections of USM’s Osher Map Library to reveal how world maps have variously embodied cultural preconceptions, religious convictions, scientific findings, and political concerns. Special attention to the processes of early modern and modern imperialism and globalization. Cr 3.

GEO 203 Urban & Regional Development
Students will survey contemporary patterns of urban and regional development through comparative analysis. Students will examine links between urbanization, employment, and social welfare in different political and economic contexts as the course moves from the global scale to the local. Students will be introduced to a series of research skills including the use of computer databases and spreadsheet programs, many of which will be of use in other courses. Cr 3.

GEO 207 Map History: Making Sense of the World
An international and interdisciplinary history of maps and spatial knowledge, this course uses the rare collections of USM’s Osher Map Library and online resources to explore the many ways in which different cultures and societies have made and used maps to variously comprehend, imagine, organize, control, and change the world and its parts. 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 & 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 255 Making a Living: Workers in a Global Economy
Our daily experiences shape and are shaped by changing economic landscapes through our patterns of work, consumption, and leisure. The course addresses the prospects and challenges for making a living in a global economy. We will examine a variety of perspectives on work, both paid and unpaid. We will pay particular attention to the connection of workers between and across places. The course discusses both new and old geographical divisions of labor and the restructuring of work and workplaces at the international, regional, local and household scales. Prerequisites: EYE. Cr. 3.

GEO/ESP 285 Global Environmental Issues and Sustainability
An overview of global environmental problems and employing a sustainability framework to provide long-term solutions. Global climate change, landscape transformation, rural and urban sustainability are considered. Emphasis is placed on understanding the interplay of natural-social systems in shaping environmental issues. Students use an integrated sustainability approach to tackle environmental problems. Cr. 3.

GEO 302 Gender, Work, and Space
Students will examine the ways in which the workforce is divided by gender, race, class, and ethnicity and how location and space shape and sustain such divisions. Competing explanations for why women and minorities hold jobs that differ distinctly from jobs held by other workers will be examined. Students will learn how a geographic understanding of gender, race, ethnicity, and class can help explain more fully the current
Students work with a public agency, private firm, municipality, nonprofit organization, or research unit, using geospatial technology to complete GEO 448/GEO 648 GIS Internship. Variable credits will be offered. Prerequisite: GEO 308 or instructor permission, and program approval. Cr 1-3.

Students will work closely with a faculty member to develop and complete a course of study in a specialized aspect of GIS or remote sensing. GEO 438/GEO 538/GEO 638 Independent Study in GIS. Students are introduced to vector-based geographical information systems (GIS). Topics include overviews of geospatial technologies, spatial analysis, GIS data, system operation, the interpretation of results, and professional practices. The course comprises a weekly lecture and laboratory. Students are evaluated with tests, laboratory assignments, and on the basis of a substantial project. Cr 4.

This course examines the geographical approaches to natural resource use and management. It will offer the study of the geographic distribution and physical attributes of natural resources, their role in economic development, and the socio-political factors governing decision making about their use. Management strategies for forests, soils, wetlands, and energy resources are assessed. Recommended prerequisites: GEO 101, GEO 102, or GEO 103. Cr 3.

Students are exposed to the latest digital survey gear and integrated techniques with applications in geoscience, geography, and environmental science. Instrumentation includes both static and real-time kinematic GPS (global positioning system) and autolock servo-driven electronic total station. Detailed precision survey data are combined with geo-referenced maps and imagery in GIS software. Prerequisites: introductory course in GEY, GEO, or ESP, and additional 200-level course in any of the above areas. Cr 4.

A critical examination of theories and approaches to the study of development. Historical and contemporary perspectives will help examine the role of states, international institutions, and civil society in the development process. Examples from selected countries and regions across the world demonstrate issues facing developing countries. Recommended prerequisites: GEO 101, GEO 103, GEO 104 World Regions, or ANT 101. Cr 3.

The course culminates in the completion of a portfolio of maps and a GIS database covering the area surveyed. This course may be repeated once for credit. Offered Summer Session only. Prerequisite: permission of instructor. Cr 6.

This course examines the use of geographical information systems (GIS) in research and professional environments. Building upon knowledge and skills developed in GEO 308, students design and execute a substantial project. Project design focuses on generating hypotheses, planning time lines and individual work assignments, and identifying technical and data resources. Projected execution is undertaken using a variety of raster, vector, and graphical user interface (GUI) software, as appropriate. Prerequisite: GEO 308 or permission of instructor. Cr 4.

Students will work closely with a faculty member to develop and complete a course of study in a specialized aspect of GIS or remote sensing. Variable credits will be offered. Prerequisite: GEO 308 or instructor permission, and program approval. Cr 1-3.

Students work with a public agency, private firm, municipality, nonprofit organization, or research unit, using geospatial technology to complete
a clearly defined project under the direct supervision of an on-site professional. A USM faculty advisor who is directly involved with USM GIS oversees the internship. At the course's conclusion, students submit a portfolio including a log, samples of the work completed, and an evaluation from the on-site supervisor. Prerequisite: GEO 308, or instructor permission, and program approval. Cr 1-3.

**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.

**GEO 455/GEO 555 Gender, 'Race' and Class in the City**
This course will focus on the relationships among gender, "race," class and urban spaces in twentieth century U.S. cities. The course will explore how urban spaces reflect and perpetuate different relations of power, inequality, and identity. First, we explore how different frameworks for urban analysis help to explain the social and spatial organization of U.S. cities. We will develop a framework for urban analysis that integrates race, class, and gender, and draws upon the geographic concepts of place and scale. Second, we will apply our integrated framework to contemporary metropolitan processes and problems. Prerequisite: one of the following: GEO 302 or permission of instructor. Cr 3.

**GEO 481/GEO 581 Megacities and Global Planning Issues**
This course provides an overview of the interactive factors that shape the socio-economic and physical structures of megacities around the world. Students will examine the processes that influence urbanization and gain an understanding of the contemporary state of the world’s cities, with a particular focus on megacities. Students will be exposed to issues confronted by citizens, policy makers, and planners in those megacities. The course is organized geographically and will focus on selected megacities in Latin America, Africa, Asia, in addition to Europe, and the United States. Cr. 3.
Tourism and Hospitality Overview

Program Chair: Tracy Michaud-Stutzman, 307 Masterton Hall, Portland

Faculty Teaching in Program: Professors: Pavri (Geography-Anthropology), Sanford (Environmental Science) and Wagner (Environmental Science), Lecturers: Michaud-Stutzman (Tourism and Hospitality), Ghezzi (Tourism and Hospitality), Lasalle (Tourism and Hospitality)

The Program in Tourism and Hospitality (TAH) is designed for students who have an interest in tourism, travel, and hospitality management as well as those currently employed in the hospitality industry, or who are considering working in this growing field. The program offers a Bachelor of Arts in Tourism and Hospitality, featuring a broad array of courses, specialized concentrations in key career areas and subjects of interest, and faculty whose expertise touches on many aspects of tourism and hospitality. The program also offers minors in Tourism and Hospitality and in Event Manage, and certificates in Event Planning and in Tourism Development and Planning.

The Program in Tourism and Hospitality draws upon faculty and courses from several departments and colleges throughout the University of Southern Maine, with engaging courses taught by a core of USM faculty, and tourism and hospitality courses taught both by USM faculty and by qualified adjuncts with extensive experience in the tourism industry. Courses are available both on campus during day and evening hours and in online and blended formats. Professional experiences, including international travel courses, internships and practicums, provide critical, real-world experience for students in various aspects of tourism management, marketing, and planning.

BA in Tourism and Hospitality

Description

The Bachelor of Arts in Tourism and Hospitality is an interdisciplinary degree designed to prepare students with the skills and knowledge to serve as leaders in the tourism and hospitality industry in Maine and beyond.

The 39-credit major provides a solid and comprehensive academic foundation for all students, both experienced professionals and those new to the field. It draws upon the social and natural sciences, recreation, business, and planning disciplines to provide an integrated understanding of tourism as a global industry and source of economic, environmental and social change. Graduates of the BA in Tourism and Hospitality bring to their careers and the community an understanding of the local, regional, and global implications of the sector, including its impact on communities and places and its prominent role in cultural contact, exchange, and learning as well as a strong hospitality skill set, developed through hands-on, industry-based, project learning.

Flexibility and customization are hallmarks of the program. Students may select one or more specialized concentrations, including:

- Tourism Creation and Promotion
- Managing in Tourism and Hospitality
- Event Planning, Management and Promotion
- Tourism Planning, Development and Sustainability
- Sport Tourism and Adventure Tourism
- Cultural and Culinary Tourism

Students complement these concentrations with electives drawn from a number of disciplines, travel courses, and a capstone experience that allows them to apply their knowledge to a real-world setting or problem. The degree curriculum emphasizes hands-on learning in the classroom and practical knowledge, with faculty from several departments within USM, as well as industry professionals, preparing students to engage directly in this sector in a variety of possible career pathways.

Program Requirements

The BA in Tourism and Hospitality includes five required courses, an internship or other professional experience; an intercultural communication and awareness requirement; and a four-course concentration. Students may then complete an additional concentration and/or electives to meet the minimum 39 credits for the major. Students must earn a minimum GPA in the major of 2.0, and a grade of C- or better in all major courses.
Students may apply a maximum of nine (9) credit hours of internships, practicums, field courses, and independent studies toward the major. Unless specific articulation agreements have been developed with an institution, students may also apply up to 18 credits of transfer courses from other institutions toward the BA. All students must meet with their advisors before registering for courses each semester.

**Required Courses**

All students must complete these required courses:

- TAH 101 Introduction to Tourism & Hospitality
- TAH 150 Professional Practices Immersion in Tourism & Hospitality
- TAH 301 Global Issues in Travel & Tourism

Students also select one of the following:

- TAH 211 Tourism Entrepreneurship
- TAH 221 Tourism & Introduction to Hospitality Management

Plus one of the following:

- TAH 231 Introduction to Sustainable Tourism
- TAH 241 Tourism & Community Development
- TAH 250 Nature Based & Adventure Tourism
- TAH 251 Ecotourism & Sustainable Development
- TAH 261 Introduction to Cultural Tourism
- TAH 264 Introduction to Culinary Tourism

Students must also complete at least three credits of the following capstones:

- TAH 406 Capstone: Research in Tourism & Hospitality
- TAH 407 Capstone: Field Study in Tourism & Hospitality
- TAH 408 Capstone: Practicum in Tourism & Hospitality
- TAH 409 Capstone: Tourism & Hospitality Internship

**Concentrations**

Each student must complete at least one four-course concentration to develop knowledge and proficiency in an area that reflects his or her interests and career goals. If a student chooses to complete a second concentration, one course may overlap between the two concentrations. Students may also complete a TAH certificate in conjunction with the concentrations in event planning and tourism development.

The following are general descriptions and requirements of the six concentrations. Course descriptions for TAH classes are found in the Course Descriptions section. Descriptions for non-TAH classes in each concentration can be found in the descriptions of those programs.

1) **Tourism Creation and Promotion**

This concentration focuses on identifying, creating and developing new tourism and hospitality products and services and promoting both new and existing businesses through advertising, trade shows, websites, and other means. Students can take several courses from the School of Business in addition to specialized courses from Tourism and Hospitality.

Students must take this required course:

- TAH 211 Tourism Entrepreneurship

Then select three of the following, at least one of which must be a TAH course:

- TAH 21X Concentration Elective (approved transfer courses)
- TAH 311 Event Planning & Management
- TAH 312 Tour Group Planning & Management
- TAH 410 Seminar in Tourism Promotion
- TAH 415 Trends & Innovation in Tourism & Hospitality
- BUS 260 Marketing
- BUS 311 Sport Marketing
- BUS 363 Branding & Advertising
- BUS 364 Professional Selling

Followed by one of the program capstones, normally TAH 408 or 409.
2) Managing in Tourism and Hospitality
In this concentration students learn about key aspects of tourism and hospitality management, including accounting and finance, business management principles, human resources, facilities management, and other topics. Management and accounting classes from the School of Business supplement specialized courses from TAH.

Students must take this required course:
- TAH 221 Introduction to Hospitality Management

Then select three of the following, at least one of which must be a TAH course:
- TAH 222 Food & Beverage Management
- TAH 22X Concentration Elective (approved transfer courses)
- TAH 231 Introduction to Sustainable Tourism
- TAH 321 Lodging Operations & Systems
- TAH 331 Sustainable Hospitality Management
- TAH 420 Seminar in Hospitality Management (selected topics)
- ACC 110 Financial Accounting Information for Decision Making
- BUS 200 Introduction to Business
- BUS 313 Sport Facility Management
- BUS 340 Managing Organizational Behavior

Followed by one of the program capstones, normally TAH 408 or TAH 409.

3) Event Planning, Management and Promotion
This concentration, offered in collaboration with the School of Business, provides students with skills and knowledge in the planning, organizing, and promotion of sporting events, festivals and fairs, weddings and banquets, meetings and conventions, and other types of events.

Students must complete one of the following courses:
- TAH 311 Event Planning & Management
- BUS 316 Sport Event Management

Then select three of the following, at least one of which must be a TAH course:
- TAH 23X Concentration Elective (approved transfer courses)
- TAH 311 Event Planning & Management (if not already taken)
- TAH 340 Topics in Event Planning
- TAH 410 Seminar in Tourism Promotion (selected topics)
- TAH 440 Applied Topics in Event Planning
- BUS 260 Marketing
- BUS 363 Professional Selling
- BUS 311 Sport Marketing
- BUS 316 Sport Event Management (if not already taken)
- BUS 317 Sport Sponsorship & Sales

Followed by a capstone experience that involves event planning, management, or promotion.

4) Tourism Planning, Development and Sustainability
This concentration looks at the potential role of tourism in economic development, focusing on community planning and sustainability. Students may take planning-related courses from the Department of Environmental Science & Policy and the Program in Geography-Anthropology.

Students must complete this course:
- TAH 241 Tourism & Community Development

Then select three of the following, including at least one TAH course. At least one course must include significant sustainability concepts (e.g., TAH 231, 251, 341).
- TAH 231 Introduction to Sustainable Tourism
- TAH 251 Ecotourism & Sustainable Development
- TAH 261 Introduction to Cultural Tourism
- TAH 262 Women, Arts & Global Tourism
- TAH 341 Tourism, Development & Sustainability
Followed by one of the program capstones in an area connected to the concentration.

5) Sport Tourism and Adventure Tourism
This concentration, offered in collaboration with the Sport Management program in the School of Business, provides an understanding of sport tourism and adventure tourism concepts and practices, and prepares students for work in settings such as sports commissions, destination marketing organizations, event planning companies, and tour management agencies.

Students must take one of these required courses:

- TAH 250 Nature Based & Adventure Tourism
- BUS 319 Sport Tourism

Then select three of the following:

- TAH 250 Nature Based & Adventure Tourism (if not already taken)
- TAH 252 Tourism, Wildlife & Biodiversity
- TAH 25X Concentration Elective (approved transfer courses)
- TAH 350 Topics in Adventure Tourism
- BUS 319 Sport Tourism (if not already taken)
- BUS 311 Sport Marketing
- BUS 313 Sport Facility Management
- BUS 314 Sport Communication
- BUS 316 Sport Event Management
- BUS 317 Sport Sponsorship & Sales
- REC 216 Emergency Medical Response
- REC 218 Emergency Medical Response-Wilderness
- REC 233 Outdoor Recreation
- REC 367 Adventure Based Counseling

Followed by a capstone in an area connected to the concentration.

6) Cultural and Culinary Tourism
This concentration prepares students to work in the cultural tourism and/or culinary tourism industry in Maine and beyond. Students learn how history, arts, food, and cultural heritage can be developed and promoted as an element of tourism. Graduates of culinary arts degrees may transfer up to two approved food-related courses into this concentration.

Students must take one of the following:

- TAH 261 Introduction to Cultural Tourism
- TAH 264 Introduction to Culinary Tourism

Then select three of the following, at least one of which must be a TAH course:

- TAH 222 Food & Beverage Management (or transfer equivalent)
- TAH 261 Introduction to Cultural Tourism (if not already taken)
- TAH 262 Women, Arts, & Global Tourism
- TAH 263 Food & Culture (or ANT 233)
- TAH 264 Introduction to Culinary Tourism (if not already taken)
- TAH 311 Event Planning & Management
- TAH 312 Tour Group Planning & Management
- TAH 361 Local Food & Agritourism
- TAH 410 Seminar in Tourism Promotion (selected topics)
- TAH 460 Seminar in Cultural Tourism
- ANT 233 Food & Culture (or TAH 263)
- HTY 360 History of Maine
Followed by one of the program capstones in an area connected to the concentration.

**Second Concentration and/or Electives**

Students have the option of completing a second concentration plus electives, or electives alone, to complete the 39 credits toward the major. If students select a second concentration, no more than one course may be used in both concentrations. If students choose the electives option, at least two courses must come from outside their concentration and be at or above the 300 level.

**Intercultural Awareness and Communication Requirement**

Students must demonstrate the capacity to interact successfully outside of their own primary culture and/or language and to assist foreign travelers and those with special needs in a sensitive way. Prior to graduation, all majors must have their advisor's confirmation that they possess the interpersonal and intercultural skills needed for entry level into the tourism and hospitality industry. The following options may be used to meet this requirement.

- Successful completion of the course TAH 305, Culture & Communication in the Travel Industry, with a grade of C- or better.
- Demonstration of competence in a modern language other than English through one of the following methods: a score of three or above on a high school AP exam; testing out of an intermediate-level modern language course via a USM placement exam, the College Level Examination Program (CLEP), or an ACTFL or ASLPI assessment higher than two; or completing at least six credits of college-level language courses. American Sign Language (ASL) courses can be used to meet this requirement.
- Completion of a pre-approved study abroad program, travel course, or professional position such as an internship, which provides a significant cultural and/or linguistic experience. Students will be required to report on this experience as part of the outcome.
- Completion of a research project, internship, or other experience that involves significant interaction with a group that differs from the student in language, culture, or special needs. This experience may also satisfy the capstone requirement for the major, with prior approval.
- Completion of one or more travel experiences that provide significant knowledge of other peoples and cultures. For this option students must provide a written narrative explaining their experiences and how these have influenced their perception of other peoples, cultures and languages (further guidelines for this essay will be provided with advising materials). A faculty committee will determine whether a student's experience(s) satisfy this requirement.
- Demonstrating through written narrative that the student's life experience, when combined with their academic course of study, provides them with extensive intercultural communication skills. This option is intended mainly for international students attending USM, but may apply to others as well. Satisfaction of the requirement will involve a faculty committee review.

**School of Business Credit Restrictions**

The USM School of Business has limitations on the number of Business courses (including certain Economics courses) that non-Business majors may take. In general, non-business majors may take a maximum of 30 credit hours in ACC, BUS, FIN, and RMI courses, plus ECO 101, 102 and 310. Students completing concentrations in the Tourism and Hospitality program that use these courses would count them toward the 30-credit hour maximum. Students may also apply for admission into one minor in the School of Business and use up to one-third of the credits in their minors toward the Tourism and Hospitality major.

**Thirty-Credit Rule**

For all baccalaureate degrees at the University of Southern Maine, a minimum of 30 credits hours, including at least nine hours in the major, must be completed while matriculated in the school or college from which the degree is sought. A student may earn no more than six of these 30 credit hours at another campus of the University of Maine System. In addition, 30 of the final 45 credits of a student's degree program must normally be completed at USM.

**Admission Information**

Admission to the program requires formal acceptance to USM, which is completed through the Admissions Office. The University of Southern Maine has defined measures of college readiness in writing and math, which are available on the USM website or through the Office of Admissions. All students must meet these measures before matriculating in this program. Full-time USM students should declare their major through the Student Success Center, which can provide them with the necessary forms and instructions. These forms are available in the TAH Program office.

**Articulation Agreements**

USM TAH has articulation agreements with Southern Maine Community College, Eastern Maine Community College, York County Community College and Kennebec Valley Community College. Please review with your advisor upon acceptance.
For those not in the USM Tourism & Hospitality program from an Articulation Agreement, certain SMCC courses may also be applied toward the major, including up to two approved courses toward their selected concentration(s) and/or electives up to a total of 21 credits toward the major. The remaining 18 or more credits in the major must be completed at USM. Any exceptions to these requirements may be made on an individual basis at the discretion of the program chair.

Prior Learning Assessment

The Office for Prior Learning Assessment (PLA) at USM believes that students should be rewarded for knowledge acquired outside the traditional classroom if it fulfills the academic criteria set forth and evaluated by the USM faculty. PLA is a process that builds a bridge between students' practical, applied learning experiences and their theoretical, college-level knowledge. There are several pathways across this bridge: testing options, credential reviews, military evaluations, and academic portfolio development, paving the way to academic credit where appropriate. Proof of competency rests with the student. Transcripts older than twenty years cannot be used for credit. For further details regarding credit options, students should contact the Office for Prior Learning Assessment at http://usm.maine.edu/pla.

The Tourism and Hospitality program supports the PLA process and works with students to identify and give credit for various professional and life experiences, including employment in the tourism and hospitality industry. In particular, the TAH program awards credit through the Academic Portfolio Assessment Program, based on a formal collection of evidence in support of a person's claim for college credit. To earn credit the student must prove understanding and learning competency in specific areas, subject to evaluation by appropriate faculty. The TAH program also uses Credential Review, which recognizes professional certifications, educational and training courses, and certain college-level experiential learning that has led to licenses, certificates, and/or credentials for organizations outside the University. Credit is assessed and given on a case-by-case basis. More information on these programs is available through the Office for Prior Learning Assessment.

Certificate in Event Planning and Management

Description

The Certificate in Event Planning and Management (CEPM) provides students with a comprehensive understanding of the field of event planning, with specific courses tailored to individual student needs and interests. Students may select from a range of electives related to the planning, management and promotion of meetings, sporting events, festivals, and other types of events. Instructors include both full-time USM faculty as well as working event planners, marketers and other experienced professionals. Coursework will be capped by a professional experience that allows students to apply their knowledge within a business or organization environment, helping to plan, manage, and promote actual events.

Program Requirements

Completion of 12 credits as described below with a grade of C- or better in each course. As part of at least one of their courses in the certificate, students must complete a project that involves original research, service learning, and/or professional experience directly related to the certificate. The certificate coordinator will assist the student with selection of a project that meets the student’s personal goals and interests. There is no particular sequencing of courses as long as course prerequisites are satisfied. Waiver of prerequisites will be done on a case-by-case basis.

Complete one of the following:

- TAH 311 Event Planning & Management
- BUS 316 Sport Event Management

Then complete three from the following, selecting at least one from each prefix. One course may be a 3-credit professional experience.
Admission Information

For non-degree students, admission to the certificate program will normally be limited to those with either: 1) at least 54 previous college credits with a GPA of 2.33 or higher; or 2) a minimum of three years of relevant work experience. Applicants relying on the latter admission requirement will need to provide evidence of at least a high school diploma or its equivalent.

Certificate in Tourism Development and Planning

Description

The Certificate in Tourism Development and Planning provides professional training in the theory and practice of economic development based on tourism attractions and services. While designed to meet the needs of those engaged in economic development and planning, it is open to all students, including those enrolled in Tourism and Hospitality degrees. Courses examine tourism from community and regional perspectives and prepare students to work for and with town offices, state agencies, and other government and non-government entities to develop, plan and market tourism opportunities. Case studies and projects allow students to learn from and apply their knowledge to real-world situations in Maine and beyond.

Program Requirements

Completion of 12 credits as described below with a grade of C- or better in each course. As part of at least one of their courses in the certificate, students must complete a project that involves original research, service learning, and/or professional experience directly related to the certificate. The certificate coordinator will assist the student with selection of a project that meets the student’s personal goals and interests.

All students must complete the following course:

- TAH 241 Tourism & Community Development

Students then select three of the following courses, at least one of which must be at the 300 level or higher, and one of which must include a research, service or professional project.

- TAH 211 Tourism Entrepreneurship
- TAH 231 Introduction to Sustainable Tourism
- TAH 251 Ecotourism & Sustainable Development
- TAH 261 Introduction to Cultural Tourism
- TAH 311 Event Planning & Management
- TAH 341 Tourism, Development & Sustainability
- TAH 361 Local Food & Agritourism
- TAH 406 Research in Tourism & Hospitality
- TAH 407 Field Study in Tourism & Hospitality
- TAH 408 Practicum in Tourism & Hospitality
- TAH 409 Tourism & Hospitality Internship
- TAH 415 Trends and Innovation in Tourism & Hospitality
- TAH 430 Topics in Tourism Planning, Development and Sustainability

Students may select one of the following courses in place of one elective above.
Minor in Event Planning and Management

Description

This minor provides students with practical skills and theoretical background in the planning, organizing, managing, and promotion of events. Students can take electives related to sport and recreation, festivals and fairs, weddings, meetings and conventions, and other types of events.

Program Requirements

Students must complete one of the following:

- BUS 316 Sport Event Management
- TAH 311 Event Planning & Management

Then select four courses from the following list, with at least one of each prefix.

- BUS 311 Sport Marketing
- BUS 313 Sport Facility Management
- BUS 316 Sport Event Management (if not already taken)
- BUS 317 Sport Sponsorship & Sales
- TAH 221 Introduction to Hospitality Management
- TAH 261 Introduction to Cultural Tourism
- TAH 311 Event Planning & Management (if not already taken)
- TAH 340 Topics in Event Planning
- TAH 410 Seminar in Tourism Promotion (selected topics)
- TAH 440 Applied Topics in Event Planning

One of the four electives may be from the following list of professional experiences, as long as the course involves some aspect of event planning, management, sales and/or promotion.

- BUS 378 Sport Management Practicum
- BUS 393 Internship in Sports Management
- TAH 209 Tourism & Hospitality Internship I
- TAH 309 Tourism & Hospitality Internship II
- TAH 407 Field Study in Tourism & Hospitality
- TAH 408 Practicum in Tourism & Hospitality
- TAH 409 Tourism & Hospitality Internship

Admission Information

The minor in event management (15 credits) is available to students in all majors. Students who wish to pursue the minor must complete a minor declaration form and submit it to the Tourism and Hospitality program. The requirements for admission to the minor are completion of at least 12 credits at USM and a grade point average of 2.33 or higher. A student may transfer into the minor up to six credit hours of acceptable courses. To complete the minor, students must have a grade point average of at least 2.33 in the minor courses. Minimum grades may be required as prerequisite to minor courses. Check course description for details.
Description

The Minor in Tourism and Hospitality provides an overview of tourism, or travel for leisure, culture, and other non-work purposes, and hospitality, the provision of services to travelers. Students design their own program of study that reflects personal interests and career goals. The Minor in Tourism and Hospitality is an excellent complement to majors that study cultures, languages, history, international relations, business, and the environment.

Program Requirements

The minor requires completion of at least five TAH courses (minimum 15 credits) with a grade of C- or better in each course. At least one course must be 300-level or higher. Students may complete one three-credit TAH internship, practicum, or field course as part of the minor. One course (three credits) may overlap with the student’s major, and up to six credits may be courses from other institutions that transfer as TAH courses at USM.

Course Descriptions

TAH 101 Introduction to Tourism & Hospitality
This course is an introduction to the major concepts, issues, and theories of tourism and hospitality as an economic sector and topic of academic study. The course covers a broad range of topics related to the travel experience, from tourism as an industry to the impacts it has on communities and places, as well as on travelers themselves. Students will also be introduced to key elements of the hospitality industry and opportunities for employment within this industry. This course is required of all TAH majors. Cr 3.

TAH 131 Northern Forest Canoe Trail (cross-listed with ESP 131)
This field course, cross-listed as an Entry Year Experience (EYE) core, is self-guided and self-paced. Participants spend the equivalent of ten days of canoe or kayak trips exploring northern New England waterways. They set their own schedule, provide periodic on-line check-ins, and submit assignments designed to foster a contemplative experience that builds independent learning skills. The course introduces environmental data gathering and assessment, aspects of environmental management, and critical thinking about personal, social, and ecological implications of the Northern Forest Canoe Trail and adjacent watersheds. This course is suitable for military veterans, advanced high school students, non-traditional learners, and anyone else who wants an independent learning experience. Cr 3.

TAH 150 Professional Practices Immersion in Tourism & Hospitality
This course is designed to teach basic professional practices for the hospitality industry in an intensive weekend format and to foster a sense of community among participants. The course includes components on customer service, writing and email etiquette, public speaking, leadership in tough situations, meeting and classroom etiquette, networking, communication skills, interviewing skills, and resume building. Students will explore tourism and hospitality internship and career options and form the basis for a network in developing professional relations. This course is required for all TAH majors. Prerequisites: TAH major or minor; or permission of the instructor. Cr. 3

TAH 209 Tourism & Hospitality Internship I
Students complete a professional experience in the tourism and hospitality industry, such as in lodging or food service, attractions, transportation, retail, marketing and promotion, or travel services. The nature of the experience would be detailed in advance, and the student would work with a faculty advisor to update them on their activities on a regular basis and provide a final report and evaluation. Prerequisites: TAH major or minor; permission of supervising faculty. Cr 1-6.

TAH 211 Tourism Entrepreneurship
This course studies entrepreneurship in the tourism industry. Students will learn to identify and develop potential products as well as plan and promote tourism and hospitality businesses. Understanding markets, customer demand, pricing, finances, marketing, sales, and operations of new ventures will all be explored through the business planning process. Case studies and field trips engage students with local entrepreneurs who have taken their ideas and created successful tourism-based businesses. Students will gain experience in innovation and creation of their own business or new tourism product. Cr 3.

TAH 221 Introduction to Hospitality Management
This course introduces students to fundamental concepts of management related to the tourism and hospitality industry. Topics include financial management and accounting, human resource issues, hotel and resort management, and food and beverage management. Examples from Maine and New England illustrate key principles and guidelines. Students will be introduced to standards, practices, regulations and laws in the tourism and hospitality industry. Cr 3.

TAH 222 Food and Beverage Management
This course covers basic management principles and practices for the food and beverage service industries, such as preparation, safe food
TAH 231 Introduction to Sustainable Tourism
This course provides an overview of sustainable tourism and hospitality. We will explore concepts such as environmental planning, monitoring and assessment, visitor management, green lodging, and working with communities. The course also looks at the global impacts of tourism, such as its contribution to climate change and other environmental conditions. We will also examine ideas such as ecotourism and community-based tourism for their values of sustainability. Cr 3.

TAH 241 Tourism & Community Development
Students learn about tourism as a tool for economic and community development and the impacts it can have on a community's sense of identity, control, and wellbeing. Topics linking community development theory to tourism and hospitality development include economic development; social and cultural impacts; strategic planning; stakeholder theory; first impression analysis; community participation; destination life cycles; marketing and promotion; and social conflict resolution. Students engage with local communities to do real tourism development work as part of the learning process. Cr 3.

TAH 250 Nature Based & Adventure Tourism
This course looks at tourism products involving nature-based environments and activities, including the importance of this sector in Maine. Students will learn about different natural environments and various types of outdoor activities including “soft” and “hard” adventure tourism, consumptive and non-consumptive forms of recreation, and emerging areas such as extreme adventure. Issues of sustainability, accessibility, risk, and destination planning and management will be explored. Students will learn from guest speakers and possible field trips to explore adventure tourism sites and activities in Maine. Cr 3.

TAH 251 Ecotourism & Sustainable Development
Examines the growing role of ecotourism, or travel to natural areas with benefits to local communities, as a tool for sustainable economic development in Maine and worldwide. Students will learn about the value of small-scale, environmentally sustainable tourism businesses and their potential role in protecting critical habitats and wildlife while supporting the needs of local residents and communities. The course also examines the challenges and problems associated with such development, from corporate greenwashing and economic leakage to the impacts of tourism on potentially fragile ecosystems, cultural sites and local communities. Cr 3.

TAH 252 Tourism, Wildlife & Biodiversity
This course explores links between global tourism and biodiversity, including threats to nature when tourism is done improperly and the potential role of tourism in conservation. Focusing on biodiversity hot spots in the Americas, Africa, Asia, and the poles, it considers how activities such as wildlife viewing, forest canopy tours, adventure travel, photography, and outdoor recreation can promote conservation, scientific research, education, and public awareness of biodiversity and related issues. Cr 3.

TAH 261 Introduction to Cultural Tourism
This class explores the many dimensions of cultural tourism, including how arts, crafts, local heritage, history, and other elements of culture can be incorporated into tourism planning and development. Topics include the meaning, value, and potential tourism roles of historical sites and monuments, festivals and events, local art and artisans, archaeological and cultural heritage sites, and museums and educational institutions. Issues such as cultural identity and representation, authenticity and commoditization will be analyzed. Cr 3.

TAH 262 Women, Arts & Global Tourism
All over the world women are improving their socioeconomic status, investing in their families, and contributing to community development through involvement in tourism arts and crafts production. We will learn about the historical and contemporary experiences of women from North and South America, Africa, Asia and other international settings. The course will explore themes of cultural heritage, culture change, traditional versus tourist art, gender equity, empowerment and community development. Cr 3.

TAH 263 Food & Culture
Food plays a central role in the human experience, shaping past and present cultures. It has strong symbolic importance, can bring people together, and motivates people to travel the world. Using engaged learning techniques students will be introduced to topics such as prehistoric human diets, cultural diversity in food preference and avoidance, recipes/cookbooks and the stories they tell, food tourism, agribusiness, the local food movement, and medical issues around food. Cr 3.

TAH 264 Introduction to Culinary Tourism
Culinary tourism, also called gastronomic tourism, is an increasingly popular form of travel involving consuming, purchasing, creating, and learning about foods and beverages and their associated histories and cultures. This course is a survey of the wide variety of culinary tourism activities available in different regions and countries. It also provides an introduction to the creation and marketing of food and beverage-related tourism experiences. Students will have the opportunity to experience culinary tourism and meet industry professionals who have created events and destinations for culinary tourists. Cr 3.

TAH 299 Topics in Tourism & Hospitality
Courses with this designation include special topics in various aspects of tourism and hospitality, offered on a one-time or experimental basis. This designation may also include courses that are cross-listed with other majors at USM and taught by faculty from those programs. Specific titles and course descriptions for upcoming courses can be found in MaineStreet and in the advising section of the TAH program website. Cr 3.

**TAH 301 Global Issues in Travel & Tourism**
As one of the world's largest industries, and one that brings travelers and host communities into close contact, tourism and travel are rife with challenges. This course delves into these issues from a social science perspective, showing how tourism affects travelers and communities in complex ways, from commoditization of art forms to sex tourism, drug use, and changes in local economies and culture. It also explores the connection of tourism to global issues such as infectious diseases, climate change, and terrorism. This course is required of TAH majors. Cr 3.

**TAH 302 Tourism Research Methods**
Students learn to conduct tourism-related research using a variety of methods from anthropology and related fields, including interviewing, observation, and surveys. The course also explores issues of research ethics, such as working with human populations and protecting sensitive data. Students will work individually or in teams on one or more projects related to tourism planning, development, evaluation or impacts. Cr 3.

**TAH 305 Culture & Communication in the Travel Industry**
This course explores the challenges of communication between people from different cultures in the context of travel and tourism. Specific topics include the role of cultural patterns, verbal and nonverbal codes in interpersonal relationships; obstacles to effective intercultural communication; causes of and ways to avoid or manage intercultural conflict; and skills necessary for cultural adaptation and coping with culture shock. This class is valuable for anyone planning to work in travel, hospitality or related fields, and fulfills the TAH requirement for Intercultural Awareness and Communication. Cr 3.

**TAH 307 Field Study in Tourism & Hospitality**
This course involves travel to one or more sites inside or outside of Maine and combines tourism activities with research, active learning, and/or community engagement. Actual courses will vary and may be taught by USM faculty, outside instructors, or a combination. Courses may focus on ecotourism, community development, cultural tourism, sustainable tourism, volunteer tourism, or other areas. Students may also attend an external field course they have identified and which their TAH advisor agrees meets the goals of this course. Cr 1-6.

**TAH 309 Tourism & Hospitality Internship II**
Students complete a professional experience in the tourism and hospitality industry, such as in lodging or food service, attractions, transportation, retail, marketing and promotion, or travel services. The nature of the experience would be detailed in advance, and the student would work with a faculty advisor to update them on their activities on a regular basis and provide a final report and evaluation. Prerequisites: TAH major or minor; permission of supervising faculty. Cr 1-6.

**TAH 311 Event Planning & Management**
Festivals, meetings, conferences and special events are an important part of the tourism sector. In this class students, through work on a real event, will learn how to plan and manage events, and explore ways of promoting and marketing events that respect local traditions and celebrate community assets. Students will also be introduced to various types of events including food and music festivals, sporting events, conferences and meetings, and celebratory events such as weddings and reunions. Students will be immersed in the work of event planning and meet real planners and promoters. Cr 3.

**TAH 312 Tour Group Planning & Management**
This course builds skills in the creation, planning, and oversight of group-based travel such as packages and charter tours. Students will investigate various types of travel packages and how tour companies, travelers, host communities, and indigenous cultures intersect in the travel and tour planning and management process. With a community partner, students will apply their knowledge and skills to the creation of Maine-based group travel tours. Cr 3.

**TAH 321 Lodging Operations & Systems**
This course examines operating procedures and systems for managing various types of lodging facilities, including hotels, resorts, and inns. Topics covered include front desk operations, reservation systems, housekeeping and maintenance, inventory management systems, guest policies, internal and external communication, human resources, and security and risk management. Prerequisite: TAH 101 or TAH 221, or permission of instructor. Cr 3.

**TAH 322 Hospitality Financial Management**
This course covers intermediate and advanced topics in hospitality financial management, including accounting for lodging and food service businesses, performance metrics across various hotel types, profit and loss evaluation, topline growth, revenue management, and systems integration. It also provides an introduction to new business evaluation, renovation considerations, STAR reporting, and tax issues. Cr 3.

**TAH 331 Sustainable Hospitality Management**
This course focuses on the application of sustainability principles and techniques to the planning and management of tourism and hospitality businesses. It is taught by faculty experienced in designing and implementing sustainable hospitality guidelines, and will take students through the steps of assessing planned or existing businesses and making these businesses more sustainable. Certification guidelines for sustainable businesses will be examined, and students will have the opportunity to do audits or other exercises to apply their knowledge in actual industry
TAH 340 Topics in Event Planning
This course examines specific types of events from a planning and management perspective, providing both theory and practical examples. Potential topics of specific sections include conferences, meetings and conventions; weddings, banquets and receptions; festivals, fairs and concerts; and large-scale sporting events. Students will examine case studies and may be able to apply course concepts to one or more actual events at USM or in the community. Cr 3.

TAH 341 Tourism, Development & Sustainability
This course provides theoretical understandings of tourism's economic, environmental, and social benefits and impacts on local communities and environments, using case studies to illustrate various types of tourism in several regions of the world. Theories and concepts such as destination life cycles, community planning, impact assessment, destination management, and culture change will be examined. Cr 3.

TAH 350 Topics in Adventure Tourism
This course covers specialized topics related to understanding, developing, managing and marketing various types of adventure tourism products. Topics explored may include outdoor recreation, adventure sports such as mountaineering, and travel to extreme destinations such as the arctic and space. Some classes will focus on Maine’s adventure tourism industry, while others may explore national and international case studies. Guest speakers, site visits and other experiences will connect students with real-world examples. Cr 3.

TAH 361 Local Food & Agritourism
This class explores where our food comes from and how it is produced within the context of the growing local food movement. It also examines the parallel increase in agritourism, which involves agricultural businesses diversifying to sustain traditional farm practices, educate the public, and attract visitors. Various agritourism models will be studied, including "farm to fork" businesses that provide local foods to area restaurants. Students will have the opportunity to visit and possibly conduct research with local agritourism businesses. Cr 3.

TAH 399 Advanced Topics in Tourism & Hospitality
Courses with this designation include advanced topics in specialized aspects of tourism and hospitality, offered on a one-time or trial basis. This designation may also include courses that are cross-listed with other majors at USM and taught by faculty from those programs. Specific titles and course descriptions for upcoming courses can be found in MaineStreet and in the advising section of the TAH program website. Prerequisites vary by individual course. Cr 3.

TAH 406 Capstone: Applied Research in Tourism & Hospitality
Students will conduct independent research guided by a faculty supervisor on an approved subject related to tourism or hospitality. Research may include qualitative or quantitative methods as determined in collaboration with the supervisor, and possibly with external clients or collaborators. Students must propose a research topic prior to the semester in which the research is to take place, and with enough time to allow the supervisor to approve or amend the proposed research subject. This course may serve as the student’s capstone experience if approved as such by the faculty advisor and program chair. Prerequisites: TAH major; permission of faculty supervisor. Cr 1-6.

TAH 407 Capstone: Field Study in Tourism & Hospitality
This course involves travel to one or more sites outside of Maine and combines tourism activities with research, active learning, and community engagement. Actual courses will vary and may be taught by USM faculty, outside instructors, or a combination. Courses may focus on ecotourism, community development, cultural tourism, sustainable tourism, volunteer tourism, or other areas. Students may also attend an external field course they have identified and which their TAH advisor agrees meets the goals of this course. They would then obtain program approval to register for this course and will receive credit upon completion of agreed-upon assignments. Prerequisites: TAH major; permission of faculty supervisor. Cr 1-6.

TAH 408 Capstone: Practicum in Tourism & Hospitality
This course combines a professional work placement with a final project designed to complete a concentration requirement. Students work with a faculty member and client organization, business, or community to gain work experience and create or assist with a tangible product, such as a research report, website, promotional material, or conference or other event, that serves the client's needs. Prerequisites: TAH major; permission of supervising faculty. Cr 1-6.

TAH 409 Capstone: Tourism & Hospitality Internship
Students complete a professional internship related to their primary concentration in the major. This might include working for a hotel, restaurant, or other business; for a tourism association or agency; or for a local community engaged in tourism planning and development. Prerequisites: TAH major; permission of supervising faculty. Cr 1-6.

TAH 410 Seminar in Tourism Promotion
In this upper-level seminar, special topics related to the development and promotion of tourism and hospitality products and services will be examined. Experienced faculty from the travel industry will share their experiences and insights, addressing the potential and challenges of developing and promoting specific types of tourism such as resorts, adventure travel, cruise ships, ecotourism, and niche businesses. Emerging trends in tourism promotion, such as new social media and participatory marketing, will be explored for their potential and limitations. Prerequisite: At least one TAH course, or permission of instructor. Cr 3.
TAH 415 Trends & Innovation in Tourism and Hospitality
Students will be introduced to major trends and innovations in contemporary tourism and hospitality, with a focus on identifying opportunities for Maine and New England. In addition to studying global and national trends in travel, the course will look at specific innovations that create new prospects for tourism in the region or demand for new types of products such as green tourism. Guest lecturers from the tourism industry, and trips to experience innovative products or services, may be employed. Cr 3.

TAH 420 Seminar in Hospitality Management
This upper-level seminar covers topics related to the planning and management of businesses, events, and attractions in the tourism and hospitality industry. Expert faculty from industry and academia will share their insights and experiences in managing businesses ranging from hotels and food service establishments to tourism attractions large and small throughout Maine and beyond. Emphasis will be on practical skills and knowledge that students can use in planning and managing businesses or working within the tourism and hospitality industry. Prerequisite: At least one TAH course, or permission of instructor. Cr 3.

TAH 430 Topics in Tourism Planning, Development and Sustainability
This advanced course looks at specific topics in tourism planning, development, and sustainability. Drawing upon the expertise of regular and visiting faculty, the role tourism plays in community planning, economic development and sustainable growth will be explored, analyzed and applied. Issues and opportunities around public service and policy in local, regional, national and global contexts will be incorporated into theoretical and critical-issues discussions, readings and learning activities.

TAH 440 Applied Topics in Event Planning
In this advanced course, students will apply concepts of event planning, management and promotion to an actual event at USM or in the surrounding region. The event itself will be determined in advance and described in the course topic notes on MaineStreet. Possible events include art, music or food festivals; conferences and meetings; receptions and galas; or sports-related events. This course requires prior event planning coursework or experience. Prerequisite: TAH 311 or TAH 340 or BUS 316, or permission of instructor. Cr 3.

TAH 460 Seminar in Cultural Tourism
This advanced seminar looks at specific topics in cultural tourism, drawing upon experiences of regular and visiting faculty. The role of the arts in tourism; interpretation of culture and history at historical sites and museums; issues in cultural heritage and identity; the challenges of performance spaces and events; and the relation of tourism to the creative economy may be examined. Theoretical and critical issues such as commoditization, cultural authenticity, and representation of identity will be explored. Cr 3.

TAH 497 Independent Study in Tourism and Hospitality
This course provides students the opportunity to pursue a project independently, planning and exploring an area of interest within the field of tourism and hospitality. Most independent study projects are library based; all are intellectually sound and reflect a high caliber of performance. Specific content and methods of evaluation are determined in conjunction with the instructor. An approved proposal is a necessary prerequisite to registration. Prerequisite: matriculation in the Tourism and Hospitality major and junior or senior standing. Cr 1-3.

Course Descriptions
Course lists for each program can now be found at the links below:

- Geography-Anthropology
- Policy, Planning, and Management
- Public Health
- Tourism and Hospitality
Social Work Overview

Location: Masterson Hall, Portland

Director of BSW & MSW Programs: Jeanette Andonian

B.S.W. Coordinator: Leslie Richfield

Professors: Fineran, Johnson; Associate Professors: Andonian, Kohli, Lazar, Wachholz; Assistant Professors: Gerstenblatt, Shanti; Lecturers: Belicose; Field Work Coordinator: Fitch
Emeritus Professors: Faherty, Healy, Rich, Wagner
Administrative Specialist: Kim Dominicus

The University of Southern Maine's School of Social Work is committed to educating culturally competent generalist social-work practitioners prepared for multi-level, strengths-based practice that values the well-being of diverse individuals, families, groups, organizations, and communities.

The School, which is part of the College of Management and Human Service, serves southern Maine by responding to the social work education, leadership, service, and evaluation and research needs of the region. The commitment to social and economic justice, and diversity and multiculturalism are integrated. The School strives for excellence in teaching and learning.

Graduates are prepared for entry-level professional practice in protective services, corrections, residential services to various populations, hospitals, nursing homes and assisted living facilities, neighborhood and community centers, child welfare, and drug and alcohol programs, etc. The social work curriculum of the School is accredited by the Council on Social Work Education at the baccalaureate and master's levels. 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. It is important to consult individual institutions for their acceptance criteria and procedures, which may vary. In most schools, a bachelor's degree in social work from a CSWE-accredited institution allows the student to waive the first year of the Master of Social Work (MSW).

Because social work is a values-based profession whose principal commitment is to vulnerable clients, a student's suitability for the profession will be assessed during the process of his or her education. MSW students are encouraged to participate in the School's Social Work Student Organization. The organization seeks to facilitate communication between students and faculty, ensure student involvement in school activities, provide for professional growth, and respond to issues and problems in the community. Student representatives may attend faculty meetings and may serve as advisory members on the school's curriculum committees.

BA in Social Work

Description

The Bachelor of Arts in Social Work (commonly referred to as a BSW) prepares the student for professional practice of social work at the entry level. Students with a BSW can become licensed at the LSW level in the State of Maine.

Program Requirements

The major in social work consists of 45 credits in required social work courses. In addition, 30 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. Students shall not be eligible to repeat a class more than once without the written permission of the director of the School of Social Work.

To major in social work, all students must maintain a 2.5 over all cumulative grade point average, and a grade of C (2.0) or better in all major and foundation classes. In order to prepare for the field work component in the School of Social Work, students must take SWO 393 Methods of Social Work Practice I in the spring semester preceding their field work year.
To qualify for enrollment in SWO 393, students must: 1) have at least 60 credits at the time of preregistration and have successfully completed math readiness, EYE, English composition, statistics, SOC 100, PSY 101, POS 101, ECO 101, HRD/SBS 200, SWO 201 and SWO 250; and 2) continue with a 2.5 cumulative GPA overall. At the time of enrollment, transfer students may be approved by advisor and BSW coordinator but must, at minimum, have completed SWO 201 and SWO 250. Students are required to maintain the 2.5 GPA and achieve a grade of C or better in all social work and required foundation courses to complete the major. Please see the Student Handbook and Field Work manual on our website (http://usm.maine.edu/swo) for additional information about requirements of field work. All required courses with their pre-requisites can be viewed there.

The School of Social Work uses a web-based data collection platform called Tk20. Tk20 provides a system for portfolio development and assessment that enables the collection, monitoring, and analysis of student progress in class and in the field. The School of Social Work will use Tk20 to collect essential data for ongoing program evaluation that is required by the Council on Social Work Education (CSWE) for accreditation. The USM School of Social Work requires all social work students to purchase a Tk20 Assessment System account for a one-time subscription fee of $103 that covers the expenses related to the administration and assessment of the program. The subscription allows students to access records for up to 10 years.

During the field work year which occurs in the student's last academic year, each student is placed in a community social service agency approved by the School of Social Work. Placements begin only in the fall semester and continue throughout the academic year. By the end of the spring semester, each student will have completed 480 hours of field work. All students should refer to School guidelines governing field work for more information and directions.

Required Social Work Courses
SWO 150 Professional Writing Laboratory for Social Workers
SWO 201 Introduction to Social Work
SWO 250 Introduction to Social Welfare
SWO 333 Social Work Research I
SWO 334 Social Work Research II
SWO 350 Social Welfare Policy
SWO 365 Examining Oppression and Valuing Diversity
SWO 370 Human Behavior in the Social Environment
SWO 393 Methods of Social Work Practice I
SWO 403 Methods of Social Work Practice II
SWO 404 Methods of Social Work Practice III
SWO 411 Field Work I
SWO 412 Field Work II
* 1 SWO Elective

Required Foundation Courses in Other Departments
ENG 100 College Writing
ECO 101 Introduction to Macroeconomics
POS 101 Introduction to American Government
PSY 101 General Psychology I
An introductory statistics course (MAT 120, PSY 201, or LAC 120)
SOC 100 Introduction to Sociology
HRD/SBS 200 Multicultural Human Development
or PSY 220 Psychology of the Lifespan

Three intermediate-level (200-399) social science electives. These electives may be from sociology, psychology, criminology, SBS, anthropology, geography, political science, economics, or women's studies courses.* These elective courses should be selected in consultation with the student's advisor. These may not all be in the same discipline, with the exception of either external transfer students or Lewiston-Auburn College students.

*A student may take a second social work elective (SWO), in which case only two (2) intermediate-level social science electives are required.

**Recommended Course Sequence**

**Recommended Course Sequence**

During the first years at the University, with the assistance of professional advisors, students enroll in a combination of classes fulfilling their Core curriculum requirements, required foundation courses for social work (classes in other fields required by the major), and the major itself. Once students earn 54 credits, social work faculty advisors work with students to plan for social work major courses. Because many classes are prerequisites for other classes, students must carefully sequence their courses with help from their advisors. The model below indicates the desired program for social work majors; starred (*) classes indicate the class is a prerequisite for other social work requirements.
Year 1
- EYE Entry Year Experience
- English Composition
- Mathematics readiness requirement
- PSY 101 General Psychology I*
- SOC 100 Introduction to Sociology*
- General Electives

Year 2
- ECO 101 Introduction to Economics*
- HRD/SBS 200 Multicultural Human Development*
- POS 101 Introduction to American Government*
- SWO 150 Professional Writing Laboratory for Social Workers
- SWO 201 Introduction to Social Work*
- SWO 250 Introduction to Social Welfare*
- Statistics (in math, psychology, sociology, or SBS at Lewiston-Auburn College)*
- SWO 365 Examining Oppression and Valuing Diversity
- General Electives

Year 3
- SWO 333 Social Work Research I
- SWO 334 Social Work Research II
- SWO 350 Social Welfare Policy
- SWO 370 Human Behavior and Social Environment
- SWO 393 Methods of Social Work Practice I
- Prerequisites: students must:
  - have at least 60 credits at the time of preregistration and have completed math readiness, EYE, English composition, statistics, SOC 100, PSY 101, POS 101, ECO 101, HRD/SBS 200, SWO 201 and 250 at the time of enrollment, except in some cases transfer students
  - have a 2.5 cumulative GPA overall

- Social work elective, 300 level or higher
  - Electives in sociology, psychology, criminology, SBS, anthropology, geography, political science, economics or women's studies (or one additional upper level SWO elective).
- General electives

Year 4
- SWO 403, 404 Methods of Social Work Practice II and III
- SWO 411, 412 Field Work I and II (full year)
- Social Work elective, 300-level or higher
- Any remaining sociology, psychology, criminology, SBS, anthropology, geography, political science, economics or women's studies (or one additional upper level SWO elective) electives.
- General electives

To assure consistency and avoid confusion, it is important that social work majors meet with their advisors on a regular basis. Students receiving advising from a designated professional advisor for the social work major until they earn 54 credits, at which time they should start meeting regularly with their assigned social work faculty member. Professional and social work faculty advisors collaborate closely to support students. Advising in the School of Social Work is a mutual process of exploring career objectives, reviewing School requirements, designing the best possible combination of required courses and electives, determining proper course sequencing, and facilitating a collaborative relationship between the student and the School.

Course Descriptions

- Undergraduate
- Graduate

Undergraduate
SWO 150 Professional Writing Laboratory for Social Workers
The ability to communicate clearly and appropriately through written word and oral presentation to small groups are essential components of a social worker's professional responsibility, and will comprise a significant proportion of day-to-day professional practice. In addition, as part of preparation for practice, social work education has a significant volume of written and presentation assignments. This required 5 week writing workshop offers both immediate and long-term benefits to social work students. It is designed to reinforce knowledge and skills in composition, grammar, and oral presentation that you have acquired through your previous educational experiences to advance the specialized skills needed in professional social work. Cr 1.

SWO 201 Introduction to Social Work
This course is an introduction to the profession of social work. Students are introduced to the core values of social work and the code of ethics that emanates from those values. Oppression and social justice are central themes of this course. The practice of social work is considered from the perspective of a collaborative strengths-based model working within complex social service systems. The course familiarizes students with various roles, functions, and tasks that social workers perform in a variety of settings. It acquaints students with the primary skills and practices of professional social work. Taking this course will help students make a more informed decision about social work as a career. This course satisfies the Socio-cultural Analysis Core requirement. Cr 3.

SWO 250 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 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 searcher." Prerequisites: SWO 201, SWO 250; any introductory statistics course (MAT 120, PSY 201, SOC 307, or SBS 328) Cr 3.

SWO 334 Social Work Research II
In this continuation of SWO 333, students complete an empirical research project. Class members serve as a review committee for all research instruments used, learn the practical aspects of writing quantitative and qualitative research reports, and function as a research support group for one another. Prerequisite: SWO 333. Cr 3.

SWO 344 Costa Rica Immersion: Social Work Perspectives on Culture, Language, and Service-Learning
This 2-week course takes place in Costa Rica and will introduce students to the colonial heritage, indigenous cultures, and the contemporary sociopolitical, ecological, and economic issues facing this Central American country. Students will receive 4 hours per day of Spanish language instruction, a class in dance and cooking, visits to cultural and recreational sites, lectures on Costa Rican social problems and social work agencies, and service-learning in a local organization such as an orphanage or refugee camp. Two all-day Saturday classes will be held at USM prior to the course trip. Summer Session only. This course satisfies the International Core requirement. Cr 3.

SWO 350 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 that determine the organization and direction of social welfare programs. Prerequisites: ECO 101, SWO 250, POS 101, or permission of instructor. Cr 3.

SWO 365 Examining Oppression and Valuing Diversity
This course is designed to provide a framework for understanding and respecting cultural diversity. The cultural aspects of race/ethnicity, gender, sexual orientation, socioeconomic status, and ableness will be discussed. A central theme in organizing the course is the examination of the role of oppression in shaping the lives of members of various cultural groups. Prerequisites: SWO 201 or permission of instructor. This course satisfies the Diversity requirement of the Core. 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 201, SWO 250; PSY 101, HRD 200. Cr 3.

SWO 374 Sexual Harassment in Education and Work
This course examines sexual harassment in the workplace and education from three perspectives: mental health, sexual violence, and social justice. Students apply concepts from the behavioral and social sciences, from clinical and community practice to contemporary education and corporate environments. Environmental and cultural forces that influence discriminatory behavior are explored. Prerequisite: junior standing or permission of instructor. Cr 3.

SWO 375 Gender and Aging
A theoretical and practical course that informs students about aging issues affecting women and men differentially. Students will analyze the manifestations of aging and apply concepts drawn from the behavioral and social sciences. Service learning experience may be available. Prerequisite: junior standing or permission of instructor. Cr 3.
SWO 383 Social Work with Immigrants, Refugees, and Asylum Seekers
Considers migration patterns and flows across the globe, introduces critical concepts in immigration and U.S. immigration policies. Community-based services will be explored with a focus on concepts such as cultural competence, diversity, empowerment, anti-oppressive social work, and critical multicultural approaches. Service-delivery efforts/approaches with the population will be considered. Prerequisite: Juniors standing or permission of instructor. Cr. 3.

SWO 388 Alcohol and Other Drug Abuse Issues
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 effects 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 393 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: EYE, math readiness, English Composition, statistics, SOC 100, PSY 101, HRD 200, POS 101, ECO 101, SWO 201, SWO 250; at least 60 credits at the time of preregistration for SWO 393; grade of C or better in all required social work and foundation courses; and a 2.5 cumulative GPA overall at the time of enrollment. Offered spring semester only. This course has a service-learning component that requires students to have some time available for work in the community. Cr 3.

SWO 397 Independent Study
Individual or group projects for independent study may be developed by students in consultation with a particular faculty member. Students collaborate with an instructor to write a brief proposal for an area of study they wish to pursue that is not offered within the BSW curriculum. Prerequisites: Permission of the BSW Coordinator and faculty instructor supervising the project prior to registration. Cr 1-3.

SWO 399 Topics in Social Work
This is a general course number under which various special topics electives are offered. Cr 3.

SWO 403 Methods of Social Work Practice II
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 organizational change and community organization. Class discussions and assignments are based on field work experiences. Prerequisites: SWO 393 and a C or better in all required social work and foundation courses, and an overall 2.5 GPA. SWO 411 taken concurrently. Cr 3.

SWO 404 Methods of Social Work Practice III
This course is a continuation of Methods of Social Work Practice II. 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). Prerequisites: SWO 393, SWO 411 (concurrently). 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 201; SWO 393; a C or better in all required social work and foundation courses, and an overall 2.5 GPA. SWO 404 taken concurrently. Fall semester only. 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 393, SWO 403, SWO 411, and SWO 404 (concurrent). Cr 6.

Graduate (Back to top)

SWO 501 Multicultural Social Work
This introductory course provides content on culturally diverse populations and serves as the basis for the infusion of cultural diversity issues throughout the graduate curriculum. The premise of this course asserts that the United States is a multicultural society in which social work cannot function effectively unless there is an understanding of how diversity strengthens and enriches us all. Open to non-matriculated graduate students. Cr 3.

SWO 502 Critical Thinking about Human Behavior I
This course examines the theories which address human behavior in mezzo and macro systems. The cultural context of behavior at all levels is an integral and underlying theme of the course. Systems theories, conflict theories, and social constructionist theories are presented. Cr 3.

SWO 503 Generalist Social Work Practice I
This course provides the student with an opportunity to acquire beginning generalist practice knowledge and skills in working with individuals, families, groups, and communities. Emphasis is placed on the development of basic practice, interpersonal, self-reflection, and communication.
SWO 504 Social Welfare Policy I
This introductory policy course provides an overview of the history of social welfare as well as an introduction to current social policy issues and dilemmas. Emphasis is placed on historical continuities in analyzing the American system of social welfare provision and lack of provision. Co-requisite or prerequisite: SWO 501. Open to non-matriculated graduate students. Cr 3.

SWO 505 Social Work Research I
This course introduces a body of knowledge, skills, and attitudinal perspectives designed to produce a high level of competence in the use of social scientific methods of knowledge building. Structured, analytical processes of inquiry are introduced, as well as a rigorous adherence to social work values and ethics. Both qualitative and quantitative methods of inquiry are discussed. Prerequisite: SWO 501. Open to non-matriculated graduate students. Cr 3.

SWO 544 Costa Rica Immersion: Social Work Perspectives on Culture, Language, and Service Learning
This 2-week course takes place in Costa Rica and will introduce students to the colonial heritage, indigenous cultures, and the contemporary sociopolitical, ecological, and economic issues facing this Central American country. Students will receive 4 hours per day of Spanish language instruction, a class in dance and cooking, visits to cultural and recreational sites, lectures on Costa Rican social problems and social work agencies, and service-learning in a local organization such as an orphanage or refugee camp. Two all-day Saturday classes will be held at USM prior to the course trip. Cr. 3.

SWO 552 Critical Thinking about Human Behavior II
The course is designed to locate the interplay of biological, psychological, and sociological influences on human behavior within the broader context of culture. Cultural diversity and oppression are seen as central to understanding human behavior and evaluating human behavior theories. The course explores a range of psychological theories such as psychodynamic, narrative, cognitive, and behavioral to understand the person within the complexity of his/her life circumstances. Prerequisites: SWO 501, SWO 502. Cr 3.

SWO 553 Generalist Social Work Practice II
This course builds on the concepts presented in Practice I. This course further develops students' values, knowledge, and skills for planned change with a particular focus on work with populations of special concern to social work. The course content emphasizes practice within organizations and communities. Prerequisite: SWO 503 (Social Work Practice I) and SWO 554 (Field Seminar I). Cr 3.

SWO 554 Field Seminar I
This seminar accompanies the graduate internship in an approved community agency, designed to relate social work theory to practice under professional supervision. Fall semester. Co-requisite: SWO 503. Cr 3.5.

SWO 555 Field Seminar II

SWO 575 Gender and Aging
A theoretical and practical course that informs students about aging issues affecting women and men differentially. Students will analyze the manifestations of aging and apply concepts drawn from the behavioral and social sciences. Cr 3.

SWO 583 Social Work with Immigrants, Refugees, and Asylum Seekers
Considers migration patterns and flows across the globe, introduces critical concepts in immigration and US immigration policies. Community based services will be explored with a focus on concepts such as cultural competence, diversity, empowerment, anti-oppressive social work and critical multicultural approaches. Service delivery efforts/approaches with the population will be considered. Cr 3.

SWO 588 Alcohol and Other Drug Abuse Issues
Examines the use and abuse of psychoactive substances: street drugs, prescriptions drugs, alcohol, caffeine, and nicotine. Consideration of the history, pharmacology, and physical and psychological effects of each substance. Exploration of prevention and treatment models, with special reference to those in use locally. Cr 3.

SWO 597 Independent Study
Individual or group projects for independent study may be developed by students in consultation with a particular faculty member. Students collaborate with an instructor to write a brief proposal for an area of study they wish to pursue that is not offered within the MSW curriculum. An Independent Study may be taken during foundation or concentration years and it serves as an elective course. Prerequisites: Permission of the Director of the MSW Program and faculty instructor supervising the project prior to registration. Cr 1-3.

SWO 599/699 Topics in Community Social Work Practice
A variety of elective courses under this title are offered to cover a wide spectrum of micro and macro practice issues. These courses facilitate students' exploration of new practice areas or enhancement of advanced practice skills. Prerequisite: SWO 503 or equivalent as determined by the instructor. Additional prerequisite may be required for some elective courses. Cr 3.
SWO 603 Social Work Practice III: Group Practice
This course focuses on social group work practice that builds upon students' foundation level social work practice skills. The course emphasizes theory about groups and group process and demonstrates the skills necessary for effective practice. In order to take SWO 603, student must be enrolled in either the Fieldwork Seminar SWO 654 or the Fieldwork Experience SWO 655. Prerequisites: SWO 553, SWO 555. Co-requisites: SWO 654 or SWO 655. Cr 3.

SWO 604 Social Welfare Policy II
This course provides a theoretical and critical model of analyzing policy processes. It contains an overview of policy analysis with particular emphasis on social conflict theory and social constructionist theories of policy formation. Prerequisites: SWO 504, SWO 554, SWO 555, and matriculated MSW students. Cr 3.

SWO 605 Social Work Research II: Social Data Analysis
This course provides an interactive learning environment in which students learn to analyze quantitative and qualitative existing social data. The goal of this course is to increase the analytical competencies of students in the planning, and eventual execution, of a community-based research project. Prerequisite: SWO 505, and matriculated MSW students. Cr 3.

SWO 651 Social Work Practice IV: Individuals and Families
This course contextualizes the facilitation of change with individuals and families within organizations and communities. Approaches to social work practice are taught within an ecosystems, strengths-based framework that reflects a commitment to the values of social and economic justice, cultural diversity, and individual and collective self-determination. In order to take SWO 651, you must be enrolled in either Fieldwork Seminar 654 or Fieldwork Experience SWO 655. Prerequisite: SWO 555. Co-requisite: SWO 654 or SWO 655. Cr 3.

SWO 652 Social Work Research III: The Research Project
This course involves the utilization of the research knowledge and skills learned in SWO 505 Social Work Research I and SWO 605 Social Work Research II, and their application to selected social problems or issues of relevance to the needs of special populations or to the social work profession. Prerequisite: SWO 605. Cr 3.

SWO 654 Field Experience and Seminar III
A graduate internship during the concentration year at an approved community agency, designed to relate social work theory to practice under professional supervision. Fall semester. All students registered for SWO 654 must also register for either SWO 603 or SWO 651 to take concurrently. Cr 4.5.

SWO 655 Field Experience IV
A continuation of the concentration year field placement. Spring semester. All students registered for SWO 655 must also register for either SWO 603 or SWO 651 to take concurrently. Prerequisite: SWO 654. Cr 4.5.

SWO 660 Advanced Biopsychosocial Assessment
This course is designed to facilitate the acquisition of practice skills specific to in-depth biopsychosocial assessment. Assessment is viewed as the process of understanding a person in order to formulate a practice approach rather than a fixed descriptive category. This course relies heavily upon theories presented in SWO 502 and SWO 552.
This course is designed to facilitate the acquisition of practice skills for in-depth biopsychosocial assessment within the advanced social work practice curriculum. Knowledge development and skill building for assessment and diagnosis, and the use of the Diagnostic and Statistical Manual of Mental Disorders (DSM) are covered in this course. Consideration of persons within a cultural context is emphasized throughout. Cr 3.

SWO 695 Thesis Option
In lieu of SWO 652, students may apply to the Research Curriculum Committee for permission to take the Thesis Option. This option provides assistance to students wishing to complete a formal thesis rather than an in-class research project through SWO 652 (Research III). Upon completion, the students present and defend the thesis and findings to their thesis committee and other relevant participants. Students wishing to pursue this option should discuss it with the SWO 605 (Research II) instructor who will provide guidance on the process for developing the thesis proposal. Students who enroll in the thesis options receive 6 credits; thus, they take only two elective courses and do not enroll in SWO 652. This option may be especially attractive for those students contemplating advanced doctoral-level education in social work or in other social sciences. Cr 6.
CSTH Overview

Dean, James E. Graves; Associate Dean, Christine R. Maher; Coordinator of Finance, Pamela Hartford; Senior Staff for HR Administration, Susan Taylor; Senior Staff for Academic Administration, Bonnie Stearns; Director of Computer Technology, Jason Howard; Laboratory Manager, Chad Seeley; Coordinator of Laboratory Operations and Special Projects, Douglas Murphy

The College of Science, Technology, and Health (CSTH) offers a wide variety of majors and programs leading to graduate and professional study, and directly to careers. The College also offers courses and programs of study to students in all colleges of the University for intellectual development and aesthetic enrichment. The College is organized into the following departments and schools:

- Biological Sciences
- Chemistry
- Computer Science
- Engineering
- Environmental Science and Policy
- Exercise, Health, and Sport Sciences
- Linguistics
- Mathematics and Statistics
- School of Nursing
- Physics
- Psychology
- Recreation and Leisure Studies
- Technology

The College's degree programs prepare students for productive and rewarding lives and provide knowledge and skills for many careers. Students, faculty, and alumni apply theory and use scientific and mathematical principles and techniques to solve practical problems and contribute to society in many ways. The College's academic programs are designed and delivered so that all students who are prepared and motivated can successfully complete them. Graduates have (1) technical competence with both depth and breadth; (2) a wide range of knowledge enabling them to function effectively in the professional world; (3) transferable skills such as reasoning, problem-solving, verbal and written communications, teamwork, and leadership; and (4) motivation to continue to learn and grow professionally. Graduates secure gainful employment and/or are well prepared for admission to graduate and professional programs.

Degrees, Certificates, and Minors

- Bachelor of Arts
- Bachelor of Science
- Bachelor's to Master's Degrees
- Master's Degrees
- Doctorate
- Certificates of Undergraduate Study
- Certificates of Graduate Study
- Certificates of Advanced Study
- Minors
- Transfer Programs

Bachelor of Arts (back to list)

- Chemistry
  - Secondary Teacher Education
- Environmental Planning and Policy
- Linguistics
  - ASL/English Interpreting Concentration
  - ASL Linguistics Concentration
  - Speech and Language Science Concentration
- Mathematics
  - Applied Mathematics/Operations Research Concentration
  - Pure Mathematics Concentration
Statistics Concentration
Secondary Teacher Education

Physics
Secondary Teacher Education

Psychology

Self-Designed Major
Elementary Teacher Education

Bachelor of Science (back to list)

Applied Technical Leadership
Athletic Training
Biochemistry
Biology
Biotechnology Concentration
General Biology Concentration
Human Biology Concentration
Secondary Teacher Education
Chemistry
Computer Science
Cyber Security
Electrical Engineering
Computer Engineering Concentration
Environmental Science
Secondary Teacher Education
Exercise Science
Health Sciences
Information Technology
Mechanical Engineering
Nursing
Accelerated Program
RN to BS Degree
Recreation and Leisure Studies
Therapeutic Recreation Concentration
Technology Management
Electro-Mechanical Systems Concentration
Industrial Management Concentration
Information and Communications Technology Concentration
Precision Manufacturing Concentration

Bachelor to Master's Degrees (back to list)

Accelerated Degree Pathway in Engineering, and Master's in Business Administration
Accelerated Degree Pathway in Environmental Planning and Policy, and Master's in Public Policy and Management
Accelerated Degree Pathway in Master of Science in Statistics
Accelerated Degree Pathway in Technology Management, and Master's in Business Administration

Master's Degrees (back to list)

Biology
Nursing
Adult-Gerontology Primary Care Nurse Practitioner
Family Nurse Practitioner
Psychiatric-Mental Health Nurse Practitioner (across the lifespan)
Education
Option for Non-Nurses with Baccalaureate Degrees
RN to Master of Science Degree Program for Registered Nurses
Option for Certified or State-Approved Advanced Practice Nurses
Statistics
Data Science
Applied Statistics
- Operations Research/Applied Mathematics
- Professional Science Master's in Biostatistics

**Doctorate** (back to list)

- Doctor of Nursing Practice (DNP) - Post Master's to DNP

**Certificates of Undergraduate Study** (back to list)

- Actuarial Science
- Applied Energy
- Applied Statistics
- Environmental Education
- Foundations of Holistic Health
- Gerontology
- Pre-Medical Studies (post-baccalaureate)
- Pre-Veterinary Studies (post-baccalaureate)

**Certificates of Graduate Study** (back to list)

- Data Science
- Statistics

**Certificates of Advanced Study** (back to list)

- Nursing (post-master's)

**Minors** (back to list)

- Actuarial Science
- Applied Energy
- Applied Mathematics
- Biochemistry
- Biology
- Chemistry
- Computer Science
- Cyber Security
- Deaf Studies
- Digital Media and Design
- Disabilities Studies
- Ecology
- Electrical Engineering
- Environmental Policy
- Environmental Science
- Environmental Sustainability
- Holistic and Integrative Health
- Industrial Management
- Information and Communications Technology
- Linguistics
- Mathematics
- Mechanical Engineering
- Nature Tourism
- Physics
- Project Management
- Psychology
- Recreation Leadership
- Statistics

**Transfer Programs** (back to list)

- Engineering: two-year, non-degree
- Pre-pharmacy: two-year, non-degree

**Accreditations**
The School of Nursing baccalaureate and master's programs are approved by the Maine State Board of Nursing and accredited by the Commission on Collegiate Nursing Education (CCNE). The athletic training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The exercise science program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The linguistics' ASL/English Interpreting program is accredited by the Commission on Collegiate Interpreter Education (CCIE). The electrical engineering and mechanical engineering programs are accredited by the Engineering Accreditation Commission (EAC) of ABET, and the computer science program is accredited by the Computing Accreditation Commission (CAC) of ABET. The technology programs are accredited by the Association of Technology, Management, and Applied Engineering (ATMAE). In addition to these accreditations, the University of Southern Maine is accredited by the New England Association of Schools and Colleges (NEASC).

Departmental or Program Requirements

The College requires that every baccalaureate degree student fulfill the requirements of the university's core curriculum and major program as noted in the catalog section devoted to each department's or school's majors. These requirements may be greater than the College minimum requirements. Students interested in a double major should consult the appropriate departments or schools and obtain a Declaration of Major form from the Office of Registration and Scheduling Services. The requirements for graduate programs are listed in the catalog section of the individual department or school.

Commitment to Civility

The concepts of community and social justice are central to the mission and philosophy of the University of Southern Maine College of Science, Technology, and Health. Faculty, students, and staff are committed to promoting a healthy and just environment that supports transformative learning, academic integrity, open communication, and personal and professional growth among the diverse members of our academic community. We believe that these commitments are grounded in intellectual openness, in personal and professional accountability, and in the democratic values of inclusion and mutual respect that are guided by rational discourse and by a relational ethic of care. Our community includes peoples of diverse ethnic, racial, religious, cultural, political, and economic backgrounds as well as people who are disabled and people of different genders, sexual orientations, and ages. Our goal is to increase the awareness of students, staff, and faculty to the importance of civility, its implications, and the behaviors that are acceptable and not acceptable in our learning community. Civility is the art of treating others, as well as ourselves, with respect, dignity, and care. Civility is apparent when we are sensitive to the impact that our communications, practices, and behaviors have on others, and when we acknowledge each person's self-worth and unique contributions to the community as a whole.

General Information

Admission to an undergraduate or graduate program in the College of Science, Technology, and Health is initiated through the Office of Admissions. Candidates must meet admission requirements indicated in the Admissions section of the catalog and the individual departments and schools of the College. General academic policies will be found in the Academic Policies section of the catalog. Specific policies and requirements are indicated in the sections dealing with the individual departments and schools of the College. All students are reminded that, in addition to meeting Program Requirements for a major, they also must meet all University and Core curriculum requirements. Students wishing to change their major should apply directly to the department of the new major.
Biological Sciences Overview

Chair of the Department: David Champlin

Professors: Maher, Moore, Walker, Weber; Associate Professors: Champlin, Currie, Theodose; Assistant Professor: Lasley-Rasher; Lecturers: Larsen, Simons; Adjunct Professors: Evers, Harris, Levine, Oxburgh, Paruk, Stenhouse, Wilson; Health Professions Advisor: Rachel Simons

The Department of Biological Sciences offers a four-year program leading to a B.S. in biology that includes three options: biotechnology, general biology, and human biology. All programs of study provide students with a liberal arts education emphasizing the sciences. Each of these options has a core set of biology course requirements in addition to other biology courses that may be elected to suit individual interests and needs. Additional required courses in chemistry, mathematics, and physics reflect the interdisciplinary status of the biological sciences. Students also get strong hands-on experience by taking at least 4-6 lab classes, and many students get enhanced practical experience through research positions (volunteer, work study, grant funded, and fellowships) in science research labs at USM and elsewhere.

In addition to the B.S. degree options, the Department offers minors in biology and in ecology, a two-year nondegree program in pre-pharmacy, and postbaccalaureate certificates in pre-medical studies and pre-veterinary studies. Graduates of these programs have found careers in biological and medical research laboratories, biotechnology companies, and field biology, or have furthered their education by entering graduate, medical, dental, optometry, veterinary, and law schools, as well as schools for allied health professions. The Department of Biological Sciences also offer a master's degree in biology, with both thesis research and literature research options (see the USM Graduate Catalog).

In conjunction with the School of Education and Human Development, the Department of Biological Sciences participates in the Secondary Teacher Education program in Life Sciences (http://usm.maine.edu/educator-preparation).

Additional information about the Biological Sciences Department and all degree programs can be found at http://usm.maine.edu/bio.

Additional Information

Pre-Health Professions Students

Almost every American school of medicine, veterinary medicine, and dentistry requires the following 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 comprises faculty from the Departments of Biology, Chemistry, and Physics and is responsible for evaluating, comparing, and recommending students. For further information contact the Biological Sciences Department Health Professions Advisor, Dr. Rachel Simons.

Lewiston-Auburn College Courses

The following Lewiston-Auburn College courses fulfill the corresponding prerequisite requirements in the Department of Biological Sciences: SCI 105 = BIO 105, SCI 106 = BIO 106, SCI 107 = BIO 107, SCI 170 = BIO 111, SCI 171 = BIO 112, SCI 172 = BIO 113, SCI 173 = BIO 114, and SCI 345 = BIO 345.

Laboratory Fees

A laboratory fee is assessed in biology laboratory courses.

BS in Biology - Secondary Teacher Education

Description

The Department of Biological Sciences offers a BS in Biology - Secondary Teacher Education Track at the undergraduate level for prospective teachers. This track is offered in partnership with the School of Education and Human Development and is designed to provide prospective teachers with a strong academic foundation in Biological Sciences.
Program Requirements

Because this BS in Biology - Secondary Teacher Education concentration is a joint program between the Department of Biological Sciences in the College of Science, Technology, and Health and the USM Teacher Education program within the School of Education and Human Development, there are requirements from both colleges that must be met as well as the university Core Curriculum requirements. Many of these requirements overlap so that the overall credit requirement for this concentration is 115 minimum, depending on any readiness requirements that must be met in your first year, and the specific 200 level or above Biology courses taken. If possible, students should consider taking education elective courses that will support them to become better teachers including, but not limited to, topics such as literacy, technology, understanding and collaborating with families.

USM Core Curriculum (including pre-internship education courses):

- EYE 108 Culture, Identity and Education (recommended) (3 cr.)
- EDU 100 Exploring Teaching as a Profession (recommended) (3 cr.)
- College Writing - ENG 100 (3 cr.)
- Cultural Interpretation (3 cr.)
- Quantitative Reasoning - MAT 152 Calculus A (4 cr.)
- Creative Expression - (THE 102 Acting for Non-majors or THE 170 Public Speaking recommended) (3 cr.)
- Socio-Cultural Analysis - HRD 200 Multicultural Human Development (3 cr.)
- Science Exploration (4 cr.)
- Ethics - EDU 310 Purpose of Schooling in a Democracy (3 cr.)
- Thematic Cluster - EDU 305 Foundations of Cultural and Linguistic Diversity, SED 335 Students with Exceptionalities in General Education, and SED 420 Multi-tiered Systems of Educational Support (9 cr.)
- Diversity and International met with EDU 305 and EDU 310 respectively

Major Requirements:

Students in this concentration complete the BS in Biology - General Biology requirements.

Secondary Teacher Education (7-12) Requirements:

All requirements for the Secondary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here.

BS in Biology: Biotechnology Concentration

Description

The biotechnology specialization emphasizes cell and molecular biology, and students who follow this track receive a solid foundation in both biology and chemistry. Graduates are well prepared to pursue employment in biotechnology or to enter graduate programs in biotechnology and cell and molecular biology.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for the emphasis in biotechnology: 74. A grade of C- or higher is required for all courses listed below.

All of the following are required. Students may substitute Problems in Biology (BIO 441) or Internship (BIO 443) for one upper level BIO laboratory course.

Biology (32 credit hours)

- BIO 105, 106 Biological Principles I: Cellular Biology and Laboratory
- BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
- BIO 201 Genetics
- BIO 311, 282 Microbiology and Laboratory
- BIO 408 Experimental Genetics
BIO 409, 410 Cell and Molecular Biology and Laboratory  
BIO 413 Applied Biostatistics  
BIO 431, 432 Principles of Immunology and Laboratory

Chemistry (24-25 credit hours)
- CHY 113, 114, 115, 116 Principles of Chemistry I and II and Laboratory  
- CHY 251, 252, 253, 254 Organic Chemistry I and II and Laboratory  
- CHY 461, 462 Biochemistry I and Laboratory  
  or CHY 461, 463 Biochemistry I and II

Physics (10 credit hours)
- PHY 111, 114, 112, 116 Elements of Physics I and II and Laboratory  
  or PHY 121, 114, 123, 116 General Physics I and II and Laboratory

Mathematics (8 credit hours)
- MAT 152 Calculus A  
- MAT 220 Statistics for the Biological Sciences

In addition, students must fulfill the University Core curriculum requirements, including a Capstone course in the major.

**Recommended Course Sequence**

Because the biology curriculum includes many support courses (chemistry, physics, math) that need to be taken in addition to biology courses, the Department offers a suggested plan of study, shown below. There is no guarantee that every course listed will be offered when the student wants the course. Students should consult their academic advisors regularly as well as the Tentative Schedule of Biology courses listed on the Department of Biological Sciences website to establish a graduation plan appropriate to individual needs.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 105 Biological Principles I: Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 106 Laboratory Biology</td>
<td>1.5</td>
</tr>
<tr>
<td>CHY 113 Principles of Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHY 114 Laboratory Techniques I</td>
<td>1.5</td>
</tr>
<tr>
<td>ENG 100 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>EYE 1XX Entry Year Experience</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 107 Biological Principles II: Evolution, Biodiversity, &amp; Ecology</td>
<td>4.5</td>
</tr>
<tr>
<td>CHY 115 Principles of Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHY 116 Laboratory Techniques II</td>
<td>1.5</td>
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<tr>
<td>MAT 152 Calculus A</td>
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<td>Core curriculum course</td>
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<table>
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<tr>
<th>Year 2</th>
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</thead>
<tbody>
<tr>
<td><strong>Fall semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 201 Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO 408 Experimental Genetics</td>
<td>2</td>
</tr>
<tr>
<td>CHY 251 Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHY 252 Organic Chemistry Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>MAT 220 Statistics for the Biological Sciences</td>
<td>4</td>
</tr>
<tr>
<td><strong>Spring semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 409 Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 410 Cell and Molecular Biology Laboratory</td>
<td>2</td>
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<tr>
<td>CHY 253 Organic Chemistry II</td>
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<tr>
<td>CHY 254 Organic Chemistry Laboratory II</td>
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<tr>
<td>Core curriculum course</td>
<td>3</td>
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<tr>
<td>Core curriculum course</td>
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</table>

<table>
<thead>
<tr>
<th>Year 3</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall semester</strong></td>
<td></td>
</tr>
<tr>
<td>CHY 461 Biochemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHY 462 Biochemistry Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

USM Undergraduate Academic Catalog 2017-18
BS in Biology: General Biology

Description

The general biology major offers the broadest exposure to the various subdisciplines of biology through an examination of life from the molecular to the community level. Besides taking foundation courses that survey the full range of biology, plus genetics, ecology, and evolution, students also take courses in three major areas of biology: organismal biology, ecology, and cellular and functional biology. Students interested in veterinary medicine should pursue this track, and students applying to professional schools also should take Organic Chemistry II and lab (CHY 253, 254). Students graduating in this track have the broadest opportunities to further their education either in graduate or professional schools or to pursue any of a number of careers in the biological sciences, such as lab technicians and state biologists.

Program Requirements

The minimum number of credits (in addition to the University's Core curriculum) required for the major: 69. A grade of C- or higher is required for all courses listed below.

All of the following are required:

- BIO 105, 106 Biological Principles I: Cellular Biology and Laboratory
- BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
- BIO 109 Biological Principles III: Functional Biology
- BIO 201 Genetics
- BIO 203 Ecology
- BIO 217 Evolution

One lecture/laboratory combination from each of the following three areas:
AREA 1: Organismal Biology
   BIO 205 Comparative Vertebrate Anatomy
   BIO 231 Botany
   BIO 291 Ornithology
   BIO 335 Entomology
   BIO 351 Invertebrate Zoology
   BIO 353 Vertebrate Zoology
   BIO 361, 362 Parasitology and Laboratory
   BIO 405, 406 Animal Behavior and Laboratory

AREA 2: Ecology
   BIO 337 Marine Ecology
   BIO 383 Plant Ecology
   BIO 403, 404 Comparative Animal Physiology and Laboratory
   BIO 415, 416 Microbial Ecology and Laboratory
   ESP 341 Limnology
   ESP 412 Field Ecosystem Ecology

AREA 3: Cellular and Functional Biology
   BIO 305, 306 Developmental Biology and Laboratory
   BIO 311, 282 Microbiology and Laboratory
   BIO 321, 322 Neurobiology and Laboratory
   BIO 381 Plant Physiology
   BIO 401, 402 Animal Physiology and Laboratory
   BIO 409, 410 Cell and Molecular Biology and Laboratory

In addition to BIO 105, 106, 107, 109, 201, 203, 217, and one lecture/laboratory course from each of the three 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:

Chemistry (14 credit hours)
   CHY 113, 114, 115, 116 Principles of Chemistry I and II and Laboratory
   CHY 251, 252 Organic Chemistry I and Laboratory

Physics (10 credit hours)
   PHY 111, 114, 112, 116 Elements of Physics I and II and Laboratory
   or PHY 121, 114, 123, 116 General Physics I and II and Laboratory

Mathematics (8 credit hours)
   MAT 152 Calculus A
   MAT 220 Statistics for the Biological Sciences

In addition, students must fulfill the University Core curriculum requirements, including a Capstone course in the major.

**Recommended Course Sequence**

Because the biology curriculum includes many support courses (chemistry, physics, math) that need to be taken in addition to biology courses, the Department offers a suggested plan of study, shown below. There is no guarantee that every course listed will be offered when the student wants the course. Students should consult their academic advisors regularly as well as the Tentative Schedule of Biology courses listed on the Department of Biological Sciences website to establish a graduation plan appropriate to individual needs.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall semester</td>
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</tr>
<tr>
<td>BIO 105 Biological Principles I: Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 106 Laboratory Biology</td>
<td>1.5</td>
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<tr>
<td>CHY 113 Principles of Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHY 114 Laboratory Techniques I</td>
<td>1.5</td>
</tr>
<tr>
<td>ENG 100 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>EYE 1XX Entry Year Experience</td>
<td>3</td>
</tr>
<tr>
<td>Spring semester</td>
<td></td>
</tr>
<tr>
<td>BIO 107 Biological Principles II: Evolution, Biodiversity, &amp; Ecology</td>
<td>4.5</td>
</tr>
<tr>
<td>Course</td>
<td>Credits</td>
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<tr>
<td>----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>CHY 115 Principles of Chemistry II</td>
<td>3</td>
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<tr>
<td>CHY 116 Laboratory Techniques II</td>
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<td>MAT 152 Calculus A</td>
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<td>Core curriculum course</td>
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### Year 2

#### Fall semester

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>BIO 109 Biological Principles III: Functional Biology</td>
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<td>BIO 201 Genetics</td>
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<td>CHY 251 Organic Chemistry I</td>
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</tr>
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<td>MAT 220 Statistics for the Biological Sciences</td>
<td>4</td>
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#### Spring semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 203 Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 217 Evolution</td>
<td>3</td>
</tr>
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<td>BIO XXX Area requirement</td>
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### Year 3

#### Fall semester

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BIO XXX Area requirement</td>
<td>3-5</td>
</tr>
<tr>
<td>PHY XXX Elements of Physics I or General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 114 Introductory Physics Laboratory I</td>
<td>1</td>
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<tr>
<td>Core curriculum course</td>
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<td>Core curriculum course</td>
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#### Spring semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO XXX Area requirement</td>
<td>3-5</td>
</tr>
<tr>
<td>Physics XXX Elements of Physics II or General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 116 Introductory Physics Laboratory II</td>
<td>1</td>
</tr>
<tr>
<td>Core curriculum course</td>
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### Year 4

#### Fall semester

<table>
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<tr>
<th>Course</th>
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#### Spring semester

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>BIO XXX elective(s)</td>
<td>variable</td>
</tr>
<tr>
<td>BIO Capstone course</td>
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</tbody>
</table>

Note: Total credits must add up to 120, with a minimum of 69 credits required for the general biology major. Suggested schedule is based on 8 semesters (4 years) with approximately 15 credits per semester. The need to meet math readiness requirements in the first year will alter and possibly lengthen a student's coursework beyond 4 years. Summer courses can reduce course load during the year.

### BS in Biology: Human Biology Concentration

#### Description

The human biology track emphasizes biology related to human health and disease, including human physiology and pathophysiology, and it provides a robust foundation for careers in health-related sciences. Many students who graduate from this program enter medical schools in Maine and New England.
Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for the emphasis in human biology: 78. A grade of C- or higher is required for all courses listed below.

All of the following are required:
- BIO 105, 106 Biological Principles I: Cellular Biology and Laboratory
- BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
- BIO 221, 112 Human Physiology I and Practical Human Anatomy and Physiology I
- BIO 223, 114 Human Physiology II and Practical Human Anatomy and Physiology II
- BIO 345 Pathophysiology

Choose 15 credits from the following, including at least two laboratory courses.
- BIO 201 Genetics
- BIO 205 Comparative Vertebrate Anatomy
- BIO 305, 306 Developmental Biology and Laboratory
- BIO 311, 282 Microbiology and Laboratory
- BIO 321, 322 Neurobiology and Laboratory
- BIO 361, 362 Parasitology and Laboratory
- BIO 401, 402 Animal Physiology and Laboratory
- BIO 407 Environmental Modulation of Developmental Mechanisms
- BIO 409, 410 Cell and Molecular Biology and Laboratory
- BIO 413 Applied Biostatistics
- BIO 431, 432 Principles of Immunology and Laboratory

The following courses are also required:

Chemistry (24-25 credit hours)
- CHY 113, 114, 115, 116 Principles of Chemistry I and II and Laboratory
- CHY 251, 252, 253, 254 Organic Chemistry I and II and Laboratory
- CHY 461, 462 Biochemistry I and Laboratory
  or CHY 461, 463 Biochemistry I and II

Physics (10 credit hours)
- PHY 111, 114, 112, 116 Elements of Physics I and II and Laboratory
  or PHY 121, 114, 123, 116 General Physics I and II and Laboratory

Mathematics (8 credit hours)
- MAT 152 Calculus A
- MAT 220 Statistics for the Biological Sciences

In addition, students must fulfill the University Core curriculum requirements, including a Capstone course in the major.

Recommended Course Sequence

Because the biology curriculum includes many support courses (chemistry, physics, math) that need to be taken in addition to biology courses, the Department offers a suggested plan of study, shown below. There is no guarantee that every course listed will be offered when the student wants the course. Students should consult their academic advisors regularly as well as the Tentative Schedule of Biology courses listed on the Department of Biological Sciences website to establish a graduation plan appropriate to individual needs.

<table>
<thead>
<tr>
<th>Year 1</th>
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</thead>
<tbody>
<tr>
<td>Fall semester</td>
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</tr>
<tr>
<td>BIO 105 Biological Principles I: Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 106 Laboratory Biology</td>
<td>1.5</td>
</tr>
<tr>
<td>CHY 113 Principles of Chemistry I</td>
<td>3</td>
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<tr>
<td>CHY 114 Laboratory Techniques I</td>
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<td>ENG 100 College Writing</td>
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<td>EYE Entry Year Experience</td>
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<tr>
<td>Spring semester</td>
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<tr>
<td>BIO 107 Biological Principles II: Evolution, Biodiversity, &amp; Ecology</td>
<td>4.5</td>
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<td>CHY 115 Principles of Chemistry II</td>
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<tr>
<td>CHY 116 Laboratory Techniques II</td>
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MAT 152 Calculus A 4
Core curriculum course 3

Year 2
Fall semester
BIO 221 Human Physiology I 3
BIO 112 Practical Human Anatomy and Physiology I 1.5
CHY 251 Organic Chemistry I 3
CHY 252 Organic Chemistry Laboratory I 2
MAT 220 Statistics for the Biological Sciences 4
Core curriculum course 3

Spring semester
BIO 223 Human Physiology II 3
BIO 114 Practical Human Anatomy and Physiology II 1.5
CHY 253 Organic Chemistry II 3
CHY 254 Organic Chemistry Laboratory II 2
Core curriculum course 3

Year 3
Fall semester
BIO 345 Pathophysiology 3
CHY 461 Biochemistry I 3
CHY 462 Biochemistry Laboratory 2
Physics: Elements of Physics I or General Physics I 4
PHY 114 Introductory Physics Laboratory I 1
Core curriculum course 3

Spring semester
BIO elective(s) 3 – 5
CHY 463 Biochemistry II (if CHY 462 not taken in Fall) 3
Physics: Elements of Physics II or General Physics II 4
PHY 116 Introductory Physics Laboratory II 1
Core curriculum course 3

Year 4
Fall semester
BIO elective(s) 3 – 5
Core curriculum course 3
Core curriculum course 3
Core curriculum course 3

Spring semester
BIO elective(s) 3 – 5
BIO Capstone course 3
General elective(s) variable

Note: Total credits must add up to 120, with a minimum of 78 credits required for the human biology concentration. Suggested schedule is based on 8 semesters (4 years) with approximately 15 credits per semester. The need to meet the mathematics readiness requirement in the first year will alter and possibly lengthen a student's coursework beyond 4 years. Summer courses can reduce course load during the year.

Certificate in Post-Baccalaureate Pre-Medical Studies

Description

This certificate program is designed for students who have already graduated from college with a baccalaureate degree and who seek to fulfill the
science course requirements for admission to schools of medicine or dentistry, or to physician assistant programs.

**Program Requirements**

In addition to a baccalaureate degree, all of the following courses or equivalent courses transferred from another institution are required. A grade of C- or higher is required for all courses listed below.

**Biology (19 credit hours)**
- BIO 105, 106 Biological Principles I: Cellular Biology and Laboratory
- BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
- And two BIO courses with labs chosen from BIO 201/408, BIO 205, or those numbered 300 or higher

**Chemistry (19 credit hours)**
- CHY 113, 114, 115, 116 Principles of Chemistry I and II and Laboratory
- CHY 251, 252, 253, 254 Organic Chemistry I and II and Organic Chemistry Laboratory I and II

**Physics (10 credit hours)**
- PHY 111, 114, 112, 116 Elements of Physics I and II and Laboratory

**Mathematics (4 credit hours)**
- MAT 152 Calculus A

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**Certificate in Post-Baccalaureate Pre-Veterinary Studies**

**Description**

This certificate program is designed for students who have already graduated from college with a baccalaureate degree and who seek to fulfill the science course requirements for admission to schools of veterinary medicine.

**Program Requirements**

In addition to a baccalaureate degree, all of the following courses or equivalent courses transferred from another institution are required. A grade of C- or higher is required for all courses listed below.

**Biology (14 credit hours)**
- BIO 105, 106 Biological Principles I: Cellular Biology and Laboratory
- BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
- And one BIO course with lab chosen from BIO 201/408, BIO 205, or those numbered 300 or higher

**Chemistry (22 credit hours)**
- CHY 113, 114, 115, 116 Principles of Chemistry I and II and Laboratory
- CHY 251, 252, 253, 254 Organic Chemistry I and II and Organic Chemistry Laboratory I and II
- CHY 461 Biochemistry I

**Physics (10 credit hours)**
- PHY 111, 114, 112, 116 Elements of Physics I and II and Laboratory

**Mathematics (4 credit hours)**
- MAT 152 Calculus A

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**Minor in Biology**
Description

Students in other fields of study receive a minor in Biology when they demonstrate they have taken a rigorous and comprehensive set of courses within the discipline.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for the minor: 18. A grade of C- or higher is required for all courses in the minor.

The minor consists of 18 credit hours of biology coursework. There are two different paths to the minor. Students can begin with the general biology sequence of BIO 105, BIO 106, BIO 107, and BIO 109, and then take additional credit hours of upper-level electives (200 or above) to equal a total of 18 credit hours.

The other path is to begin with the human biology sequence of BIO 111, BIO 112, BIO 113, and BIO 114, and then take additional credit hours of upper-level electives (200 or above) to equal a total of 18 credit hours. Nursing majors may count 1 credit of NUR 424 toward the Biology minor.

Note: For both of these pathways to a minor in biology, at least 6 credit hours of upper-level courses must be taken within the Department of Biological Sciences (i.e., they have a BIO prefix).

Minor in Ecology

Description

Students in other fields of study receive a minor in Ecology when they demonstrate they have taken a rigorous and comprehensive set of courses within the discipline. Courses in the minor include both basic and applied aspects of ecology.

Program Requirements

The minimum number of credits (exclusive of the university’s core curriculum) required for the minor: 16. A grade of C- or higher is required for all courses in the minor. This is a cooperative minor between the Department of Environmental Science and Policy and the Department of Biological Sciences, and it is administered by the Department of Biological Sciences.

Core requirements: Each of the following must be completed (8-9 credits). Additional prerequisite courses may be required.

1. Either BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
   or
   ESP 101, 102 Fundamentals of Environmental Science and Laboratory

2. Either BIO 203 Ecology
   or
   ESP 125, 126 Introduction to Environmental Ecology and Laboratory

Electives: Complete 7–8 credits of the following, including at least one lab course or integrated lecture/lab, for a minimum of 16 credits for the minor. For students majoring in Biology, Environmental Planning and Policy, or Environmental Science, elective courses for the Ecology minor (listed below) cannot also be used to satisfy major requirements.

ESP 250 Soils and Land Use
ESP 303 Wetlands Ecology
ESP 341 Limnology
ESP 350 Environmental Entomology
ESP 412 Field Ecosystem Ecology
ESP 413 Forest Ecology
BIO 231 Botany
BIO 291 Ornithology
BIO 335 Entomology
Transfer Program in Pre-pharmacy: two-year, non-degree

Description

A two-year, non-degree program of study is offered to prepare students to apply to a four-year doctoral program in pharmacy (a 2+4 program). Most schools and colleges of pharmacy require 60-75 credits in their two-year pre-pharmacy phase, depending on the number of general education credits required. Individual programs vary in the general education courses they require, such as economics, social science, humanities, and fine arts, so students should consult those programs accordingly. The pre-pharmacy concentration is a time-intensive program that students will need to commit to upon entering the University. Students are encouraged to take summer courses to reduce the number of credits taken each semester. If students choose not to take summer courses, they should consider extending the program to three years. If they do well in this program of study, they will be competitive with students from other universities applying for entry into professional pharmacy programs. The pre-pharmacy program is not a degree program but if students decide not to transfer after two years, they will be well along the path toward earning a B.S. in biology. For further information contact the Health Professions Advisor in the Department of Biological Sciences, Dr. Rachel Simons.

Program Requirements

The minimum number of credits required for the pre-pharmacy program, including general education requirements: 70. A grade of C- or higher is required for all courses listed below. Although there is not a degree in pre-pharmacy, the pre-pharmacy program is taken within the biology degree program.

All of the following are required (18 credit hours):
- BIO 105, 106 Biological Principles I: Cellular Biology and Laboratory
- BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
- BIO 221, 112 Human Physiology I and Practical Human Anatomy and Physiology I
- BIO 223, 114 Human Physiology II and Practical Human Anatomy and Physiology II

Chemistry (19 credit hours)
- CHY 113, 114, 115, 116 Principles of Chemistry I and II and Laboratory
- CHY 251, 252, 253, 254 Organic Chemistry I and II and Laboratory

Physics (10 credit hours)
- PHY 111, 114, 112, 116 Elements of Physics I and II and Laboratory

Mathematics (8 credit hours)
- MAT 152 Calculus A
- MAT 220 Statistics for the Biological Sciences

Other required courses:
- ENG 100 College Writing
- ENG 140 Reading Literature
- PSY 101 General Psychology I
- SOC 100 Introduction to Sociology
- THE 170 Public Speaking

In addition, students must fulfill an additional 6-9 credits of general education electives, and some programs require 3 credits of economics.

Recommended Course Sequence

Because the biology curriculum includes many support courses (chemistry, physics, math) that need to be taken in addition to biology courses, the Department offers a suggested plan of study, shown below. There is no guarantee that every course listed will be offered when the student wants the course. Students should consult their academic advisors and the Tentative Schedule of Biology Course Offerings on a regular basis.
### Pre-pharmacy Program Plan

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 105 Biological Principles I: Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO 106 Laboratory Biology</td>
<td>1.5</td>
</tr>
<tr>
<td>CHY 113 Principles of Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHY 114 Laboratory Techniques I</td>
<td>1.5</td>
</tr>
<tr>
<td>ENG 100 College Writing</td>
<td>3</td>
</tr>
<tr>
<td>EYE 1XX Entry Year Experience</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring semester</strong></td>
<td></td>
</tr>
<tr>
<td>BIO 107 Biological Principles II: Evolution, Biodiversity &amp; Ecology</td>
<td>4.5</td>
</tr>
<tr>
<td>CHY 115 Principles of Chemistry II</td>
<td>3</td>
</tr>
<tr>
<td>CHY 116 Laboratory Techniques II</td>
<td>1.5</td>
</tr>
<tr>
<td>ENG 140 Reading Literature</td>
<td>3</td>
</tr>
<tr>
<td>THE 170 Public Speaking</td>
<td>3</td>
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<tr>
<td><strong>Summer session</strong></td>
<td></td>
</tr>
<tr>
<td>PHY 111 Elements of Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHY 114 Introductory Physics Laboratory I</td>
<td>1</td>
</tr>
<tr>
<td>PHY 112 Elements of Physics II</td>
<td>4</td>
</tr>
<tr>
<td>PHY 116 Introductory Physics Laboratory II</td>
<td>1</td>
</tr>
</tbody>
</table>

### Year 2

| **Fall semester** | |
| BIO 221 Human Physiology I | 3 |
| BIO 112 Practical Human Anatomy and Physiology I | 1.5 |
| CHY 251 Organic Chemistry I | 3 |
| CHY 252 Organic Chemistry Laboratory I | 2 |
| MAT 152 Calculus A | 4 |
| PSY 101 General Psychology I | 3 |
| **Spring semester** | |
| BIO 223 Human Physiology II | 3 |
| BIO 114 Practical Human Anatomy and Physiology II | 1.5 |
| CHY 253 Organic Chemistry II | 3 |
| CHY 254 Organic Chemistry Laboratory II | 2 |
| MAT 220 Statistics for the Biological Sciences | 4 |
| SOC 100 Introduction to Sociology | 3 |
| **Summer Session (general education requirements vary by program so check individual program requirements)** | |
| ECO 101 Introduction to Macroeconomics | 3 |
| or ECO 102 Introduction to Microeconomics | |
| General education electives (ex: ART, PHI, HTY) | 3-6 |

### Course Descriptions

- **Undergraduate**
- **Graduate**

#### Undergraduate

**BIO 101 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 students 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 102 Biological Experiences**

Laboratory studies to complement and illustrate the concepts presented in BIO 101. Prerequisite: Prior or concurrent registration in BIO 101. Cr
BIO 103 Introduction to Marine Biology
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. Intended primarily for students selecting a laboratory science to satisfy the Core curriculum or for those students not intending to take other courses in the biological sciences. Cr 3.

BIO 104 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 103. Cr 1.

BIO 105 Biological Principles I: Cellular Biology
This is an introduction to the scientific principles of molecular biology, cell biology, and genetics. Prerequisite: Successful completion of the University's readiness requirement in mathematics. Cr 3.

BIO 106 Laboratory Biology
Laboratory experiences illustrating concepts and principles introduced in BIO 105. Concurrent enrollment in BIO 105 is highly recommended. Prerequisite: grade of C- or higher or concurrent enrollment in BIO 105, and successful completion of the University's readiness requirement in mathematics. Cr 1.5.

BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
This is an integrated lecture-laboratory course introducing students to the scientific principles of evolution, biodiversity, and ecology. The lecture and laboratory each meet three hours weekly. Prerequisites: grades of C- or higher in BIO 105 and BIO 106. Cr 4.5.

BIO 109 Biological Principles III: Functional Biology
This is an introduction to the scientific principles of structure and function in plants and animals. Prerequisite: grade of C- or higher in BIO 107. Cr 3.

BIO 111 Human Anatomy and Physiology I
The course is the first semester of a two-semester sequence concerning the structure and function of the human body. The course focuses on the study of cell chemistry, cell physiology, tissues, integumentary system, skeletal system, muscle system, and nervous system. It is appropriate for nursing and allied health majors and does not fulfill requirements of the biology major. Prerequisite: students must have fulfilled the University's readiness requirement in mathematics. Cr 3.

BIO 112 Practical Human Anatomy and Physiology I
Laboratory experiences illustrating concepts and principles introduced in BIO 111 and BIO 221. The course will cover the following topics: metrics, language of anatomy, cell physiology, tissues, integumentary system, skeletal system, muscular system, and nervous system. Prerequisite: BIO 111 or BIO 221 or concurrent. Cr 1.5.

BIO 113 Human Anatomy and Physiology II
This course is a continuation of BIO 111. The structure and function of the endocrine, cardiovascular, respiratory, digestive, and urinary systems will be discussed. It is appropriate for nursing and allied health majors and does not fulfill requirements of the biology major. Prerequisite: grade of C- or higher in BIO 111. Cr 3.

BIO 114 Practical Human Anatomy and Physiology II
Laboratory studies of the structure and function of the endocrine, cardiovascular, respiratory, reproductive, digestive, and urinary systems. Prerequisite: grade of C- or higher in BIO 112; BIO 113 or BIO 223 or concurrent. Cr 1.5.

BIO 201 Genetics
A study of the organization, transmission and expression of genes and genomes. Prerequisite: grade of C- or higher in BIO 105 or BIO 111, or permission of instructor. Cr 3.

BIO 203 Ecology
A scientific study of interactions determining the distribution and abundance of organisms. Prerequisite: grade of C- or higher in BIO 107. 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 109 or BIO 113. Cr 5.

BIO 217 Evolution
A study of the fossil record, adaptive changes in genes and traits by natural selection, and the evolution of diversity and complexity. Prerequisites: grades of C- or higher in BIO 107 and BIO 201, or permission of instructor. Cr 3.
BIO 221 Human Physiology I
This course is the first of a two-semester sequence that introduces how the human body functions from the subcellular to the whole-individual level. It is designed for biology majors and students wanting to enter graduate programs in medicine or physiology. Prerequisite: Grade of C- or higher in BIO 105. Cr 3.

BIO 223 Human Physiology II
This course is a continuation of BIO 221. It is designed for biology majors and students wanting to enter graduate programs in medicine or physiology. Prerequisite: Grade of C- or higher in BIO 221 or permission of instructor. Cr 3.

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. Prerequisite: grade of C- or higher in BIO 107 or permission of instructor. 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 105 or 111, or permission of instructor. Cr 3.

BIO 281 Microbiology for Health Sciences
This course is a basic introduction to the structure and function of prokaryotes, with some consideration of viruses and parasites. It is appropriate for nursing and allied health majors and does not fulfill requirements of the biology or biochemistry majors. Prerequisites: grade of C- or higher in CHY 107 or CHY 113 and grade of C- or higher in BIO 105 or BIO 111. Cr 3.

BIO 282 Microbiological Laboratory
The laboratory explores basic techniques of isolation and cultivation of microorganisms, primarily bacteria and fungi. In addition, biochemical, molecular, and genetic analyses of microorganisms are introduced. Prerequisite: grade of C- or higher or concurrent enrollment in BIO 281 or BIO 311; or permission of instructor. 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. Prerequisite: a grade of C- or higher in BIO 107, or permission of instructor. Cr 4.5.

BIO 305 Developmental Biology
An analysis of the cellular and molecular interactions leading to normal development. Prerequisite: grade of C- or higher in BIO 107. Cr 3.

BIO 306 Developmental Biology Laboratory
This laboratory course is designed to illustrate principles of animal development introduced in BIO 305 using genetic, histochemical, and molecular analyses. Prerequisite: prior or concurrent registration in BIO 305. Cr 2.

BIO 311 Microbiology
This course is a comprehensive introduction to cellular, biochemical, and genetic aspects of prokaryotes. Viruses and some eukaryotic microorganisms are also considered. This course is designed for biology majors but open to all who have successfully completed the prerequisites. The companion lab course is BIO 282. Prerequisites: CHY 115 and grade of C- or higher in BIO 107 or BIO 113; or permission of instructor. Cr 3.

BIO 321 Neurobiology
This course presents an overview of nervous system function, structure, and development. Content focuses on the cellular and molecular properties that underlie normal function. Prerequisite: grade of C- or higher in BIO 109, BIO 111 or BIO 221, or permission of instructor. Cr 3.

BIO 322 Neurobiology Laboratory
This laboratory course is designed to enable students to gain experience with a range of experimental techniques used in neurobiology research. These include cell culture, electrophysiology, histochemistry, microscopy, and behavioral analyses. Prerequisite: prior or concurrent registration in BIO 321. Cr 2.

BIO 335 Entomology
Integrated lecture-laboratory course on the biology of insects and their impact on humanity. Prerequisite: grade of C- or higher in BIO 107. Cr 3.

BIO 337 Marine Ecology
A comparative ecological study of coastal and oceanic environments. Lecture, three hours/week; weekly four-hour field trip. Prerequisite: Grade of C- or higher in BIO 203 or ESP 125. 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 109, BIO 113, or BIO 223, or permission of instructor. Cr 3.

**BIO 351 Invertebrate Zoology**
The morphology, physiology and evolution of invertebrate animals. Three hours of lecture and two, two-hour laboratories per week. Prerequisite: a grade of C- or higher in BIO 107. Cr 5.

**BIO 353 Vertebrate Zoology**
This course is a survey of the vertebrate animals, focusing on classification, morphology, physiology, ecology, behavior, and evolutionary history of each group. Lecture three hours a week; one four-hour laboratory a week. Prerequisites: grade of C- or higher in BIO 109. 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 107. 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: CHY 115 and grade of C- or higher in either BIO 109 or BIO 231; or permission of instructor. Cr 4.5.

**BIO 383 Plant Ecology**
This course is a study of plant distribution and abundance across local, regional, and global scales. How plants are impacted by and in turn impact environmental and biotic factors will be discussed at the individual, community, and ecosystem levels. The influences of environmental stress and anthropogenic disruptions will also be examined. Students design and implement a field based research project and weekly field trips are required. Prerequisites: Grade of C- or higher in BIO 203 or ESP 125. Cr. 5.

**BIO 401 Animal Physiology**
A study of physiological processes and their regulation in animals. Prerequisites: CHY 115, either PHY 111 or PHY 121, and grade of C- or higher in either BIO 107 or BIO 113; or permission of instructor. Cr 3.

**BIO 402 Animal Physiology Laboratory**
Laboratory examination of physiological mechanisms in animals. Prerequisite: Grade or C- or higher or concurrent enrollment in BIO 401; MAT 220. Cr 2.

**BIO 403 Comparative Animal Physiology**
Physiological and biochemical basis of environmental adaptation in animals. Prerequisites: CHY 115, junior standing, and grade of C- or higher in BIO 107. Cr 3.

**BIO 404 Comparative Animal Physiology Laboratory**
Laboratory experiments on the physiological basis of environmental adaptation. Emphasis is on marine animals. Prerequisite: Grade of C- or higher or concurrent enrollment in BIO 403; Grade of C- or higher in MAT 220. Cr 2.

**BIO 405 Animal Behavior**
This course is a study of the principles of behavioral organization in vertebrate and invertebrate animals, with emphasis on behavior under natural conditions. Prerequisite: grade of C- or higher in BIO 107 or BIO 113, or permission of instructor. Cr 3.

**BIO 406 Animal Behavior Laboratory**
This course is a laboratory and field examination of behavioral principles in animals. Prerequisite: Grade of C- or higher or concurrent enrollment in BIO 405. Cr 2.

**BIO 407 Environmental Modulation of Developmental Mechanisms**
This is a molecular genetic analysis of development focusing on an integrative approach toward understanding the evolution of developmental mechanisms. Prerequisite: grades of C- or higher in BIO 201 and BIO 305, or permission of instructor. Cr 3.

**BIO 408 Experimental Genetics**
This course includes lectures and laboratory exercises in human and fruit fly genetics. This is not a companion course to BIO 201. Prerequisite: Grade of C- or higher or concurrent enrollment in BIO 201, or permission of instructor. 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: CHY 115 and either grade of C- or higher in BIO 201 or concurrent enrollment in BIO 201. 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 concurrent. Cr 2.

**BIO 413 Applied Biostatistics**
This course is an introduction to the application of classical and modern statistics to biological problems. Prerequisite: grade of C- or higher in MAT 220 or permission of instructor. Cr 3.

**BIO 415 Microbial Ecology**
The course begins with an examination of microbial evolution and biodiversity. It then explores the interactions of microorganisms in populations and within communities, and their interactions with other organisms and the environment, including an examination of physiological adaptations and biogeochemical cycles. Prerequisite: grade of C- or higher in BIO 203 or ESP 125, and BIO 311 or equivalent, or permission of instructor. Cr 3.

**BIO 416 Microbial Ecology Lab**
This is the companion lab course to BIO 415, designed as a hands-on project lab to introduce students to a variety of methods used in microbial ecology. There will be a field, lab, computing and written component to the projects that will be completed during the semester. Microscopic, cell culture, molecular and bioinformatics methods will be employed. Prerequisites: grade of C- or higher in BIO 415 (or equivalent) or concurrent enrollment, or permission of instructor. Cr 2.

**BIO 417 Issues in Evolution**
This course surveys major issues that motivate current research in evolutionary biology, providing an historical analysis of areas of controversy and alternative points of view within the field. The course is based on selected readings in the theoretical and experimental literature of the field, from primary and classical sources. Prerequisites: grades of C- or higher in BIO 201 and BIO 217; or permission of instructor. Cr 3.

**BIO 419 Human Evolution**
This course explores the fossil, genetic, and paleoanthropological evidence for current reconstructions of the history and evolution of all primates and of one primate in particular, *Homo sapiens*. Students will retrace the emergence of hominins and *Homo sapiens* in Africa, out of Africa, and across the world. Prerequisites: Grades of C- or higher in BIO 201 and BIO 217, or permission of instructor. Cr 3.

**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 2-3.

**BIO 431 Principles of Immunology**
An introduction to the fundamentals of immunology, especially as they relate to human diseases. Topics include history of immunology, basic elements of immune systems, principles of natural and acquired immunity, cellular and molecular basis of B cell and T cell development and diversity, and clinical aspects of immunology. Prerequisites: CHY 107 or CHY 115, junior standing, and grade of C- or higher in either BIO 107 or BIO 113; or permission of instructor. Cr 3.

**BIO 432 Immunology Laboratory**
This laboratory course is designed to enable students to gain experience with immunological techniques. Course emphasis will be on experimental design and the clinical and research applications of the procedures used. Prerequisite: Grade of C- or higher or concurrent enrollment in BIO 431, or permission of instructor. Cr 2.

**BIO 441 Problems in Biology (Independent Studies)**
Independent library or laboratory studies on a special topic as mutually arranged by instructor and student. Prerequisite: by arrangement. Credit arranged.

**BIO 442 Honors Thesis in Biology**
This class is a continuation of the independent studies on a special topic started in BIO 441. This final semester includes a mid-semester thesis draft, a substantive revised thesis based on feedback, and a concluding public, oral defense. Fulfills University Core Curriculum Capstone requirement. Prerequisite: BIO 441, EISRC, and approval by Biology Dept Chair. Cr. 3.

**BIO 443 Internship**
In this course, students apply their learning to a practical context under supervision of a faculty member. Prerequisite: by arrangement. Cr 1-3.

**Graduate (Back to top)**

**BIO 501 Animal Physiology**
A study of physiological processes and their regulation in animals. Cr 3.
BIO 502 Animal Physiology Laboratory
Laboratory examination of physiological mechanisms in animals. Cr 2.

BIO 505 Animal Behavior
This course is a study of the principles of behavioral organization in vertebrate and invertebrate animals, with emphasis on behavior under natural conditions. Cr 3.

BIO 506 Animal Behavior Laboratory
This course is a laboratory and field examination of behavioral principles in animals. Cr 2.

BIO 507 Environmental Modulation of Developmental Mechanisms
This is a molecular genetic analysis of development focusing on an integrative approach toward understanding the evolution of developmental mechanisms. Cr 3.

BIO 508 Experimental Genetics
This course includes both lectures and laboratory exercises in human and fruit fly genetics. Cr 2.

BIO 509 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. Cr 3.

BIO 510 Cell and Molecular Biology Laboratory
A course in which the techniques of cell fractionation and biochemical analyses are applied to the eukaryotic cell. Cr 2.

BIO 511 Estuarine Ecology
Integrated lecture/field laboratory course focused on interactions determining the distribution and abundance of life in estuaries. Cr 3.

BIO 513 Applied Biostatistics
This course is an introduction to the application of classical and modern statistics to biological problems. Cr 3.

BIO 515 Microbial Ecology
The course begins with an examination of microbial evolution and biodiversity, and explores the interactions of microorganisms in populations and communities, with other organisms, and with the environment, including an examination of physiological adaptations and biogeochemical cycles. Cr 3.

BIO 516 Microbial Ecology Laboratory
This companion lab course to BIO 515 Microbial Ecology is designed as a hands-on project lab to introduce students to a variety of methods used in microbial ecology. There are field, lab, computer and written components to the projects that will be carried out over the semester. Microscopic, cell culture, molecular, and bioinformatics methods will be employed. Cr 2.

BIO 517 Issues in Evolution
This course surveys major issues that motivate current research in evolutionary biology, providing a historical analysis of active areas of controversy and alternative points of view. The course is based on selected readings in the theoretical and experimental literature of the field, from primary and classical sources. Cr 3.

BIO 519 Human Evolution
This course explores the fossil, genetic, and paleoanthropological evidence for current reconstructions of the history and evolution of all primates and of one primate in particular, Homo sapiens. Students will retrace the emergence of hominins and Homo sapiens in Africa, out of Africa, and across the world. Cr 3.

BIO 531 Principles of Immunology
An introduction to the fundamentals of immunology, especially as they relate to human diseases. Topics include history of immunology, basic elements of immune systems, principles of natural and acquired immunity, cellular and molecular basis of B cell and T cell development and diversity, and clinical aspects of immunology. Cr 3.

BIO 545 Advanced Pathophysiology
This course is a study of the physiological, genetic, biochemical, and environmental basis of diseases. Systems to be covered include reproductive, gastrointestinal, respiratory, cardiovascular, nervous, and skeletomuscular. Cr 3.

BIO 601 Research Methods in Biology
This course introduces students to faculty members’ research. Students will study the philosophy of science, experimental design, data analysis and interpretation, and writing and assessment of scientific papers. Cr 3.
BIO 602 Ethical Issues in Biology
This course examines a variety of ethical issues arising in biology today, including those related to general scientific research, biotechnology, medicine, and the environment. Cr 2.

BIO 611 Endocrinology
This course examines hormone action in animals and plants at the molecular, cellular, organ, and organismal levels. Topics will include the endocrine control of development, behavior, and physiological processes. Cr 3.

BIO 615 Plant Metabolism
This is an advanced course on the regulation and integration of metabolism as viewed from a whole plant perspective. The course deals with primary metabolic pathways such as respiration, photosynthesis, nitrogen metabolism, and carbohydrate and lipid biosynthesis. Compartmentation of metabolic pathways and communication between cells, tissues, and organs via transport systems are discussed. Cr 3.

BIO 621 Graduate Seminar
This course reviews the literature pertinent to topics of biology. It may be repeated for credit as topics vary. Graduate students must complete at least two different seminars. Cr 2-3.

BIO 650 Internship
In this course, students apply their learning to a practical context under supervision of a faculty member. Cr 1-3.

BIO 660 Graduate Independent Study
Independent work on a special topic as arranged by the student, advisor, and committee. Cr 1-6.

BIO 697 Literature Review
This course involves preparation of a review paper based on current biological literature. Prerequisite: permission of the graduate advisor. Cr 1-6.

BIO 698 Thesis Research
This course involves thesis research and preparation. It may be repeated for credit, but no more than six credits will apply to the degree. Enrollment is required each term in which the thesis is in progress. Cr 1-6.

GRS 602 Thesis Completion
See the complete course description in the “Continuous Enrollment and Residency” section of the Academic Policies chapter. Cr 1.
Chemistry Overview

Chair of the Department: Caryn Prudenté

Professors: Prudenté, Tracy; Associate Professors: Benedict, Ford, Woodruff; Professors Emeriti: Gordon, Newton, Rhodes, Ricci, 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 four tracks leading to baccalaureate degrees (B.A. in chemistry, B.S. in chemistry, B.S. in biochemistry, and B.A. in Chemistry - Secondary Teacher Education). Because 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 considering a chemistry major are strongly urged to consult with a member of the Department of Chemistry faculty to discuss the program. They should pay particular attention to the pre- and co-requisites necessary for different courses. Both the B.S. in chemistry and biochemistry tracks are accredited by the American Chemical Society.

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 140 Precalculus.)

Additional Information

Laboratory Fees

A laboratory fee is assessed in chemistry laboratory courses.

BA in Chemistry - Secondary Teacher Education

Description

This track is for students who want to become certified to teach grades 7-12 chemistry in Maine. Interested students should see the secondary education chemistry coordinator upon acceptance at USM, matriculation, upon choosing a chemistry major, or as early in their time at USM as possible. The curriculum for this track is designed to provide prospective 7-12 teachers with a strong academic foundation in chemistry along with a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences. It has four components: USM Core curriculum, a chemistry major, professional education courses, and electives totaling 120 credit hours for the degree.

Program Requirements

USM Core Curriculum (including pre-internship education courses):

- EYE 108 Culture, Identity, and Education (recommended) (3 cr.)
- EDU 100 Exploring Teaching (recommended) (3 cr.)
- ENG 100 College Writing (3 cr.)
- Cultural Interpretation (3 cr.)
- Quantitative Reasoning - MAT 152 Calculus A (4 cr.)
- Creative Expression (3 cr.)
- Socio-Cultural Analysis - HRD 200 Multicultural Human Development (3 cr.)
- Science Exploration - CHY 113/114 Principles of Chemistry I and lab (4.5 cr.)
- Ethics - EDU 310 Purpose of Schooling in a Democracy (3 cr.)
- Cluster - EDU 305 Foundations of Cultural and Linguistic Diversity, SED 335 Students with Exceptionalities in General Education, and SED 420 Multi-tiered Systems of Educational Support (9 cr.)
- Diversity and International met with EDU 305 and EDU 310 respectively.

**Major Requirements:**

Students will satisfy all of the [BA in Chemistry](#) requirements except CHY 470. The Professional Education Internship Requirements replace the CHY 470 requirement.

**Secondary Teacher Education (7-12) Requirements:**

All requirements for the Secondary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found [here](#).

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**BA in Chemistry**

**Description**

Because 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 considering a chemistry major are strongly urged to consult with a member of the Department of Chemistry faculty to discuss the program.

**Program Requirements**

To graduate as a chemistry major or minor in any of the programs, a student must earn a grade of C or better in all chemistry courses and a minimum grade point average of 2.0 in all other courses required for the major.

The minimum number of credits in chemistry and related areas (exclusive of the University's Core curriculum) required for the major in this track: 64.

The following courses are required:

- CHY 113, 114 Principles of Chemistry I and Laboratory Techniques I
- CHY 115, 116 Principles of Chemistry II and Laboratory Techniques II
- CHY 233 Analytical Chemistry with Laboratory
- CHY 251, 252 Organic Chemistry I and Organic Chemistry Laboratory I
- CHY 253, 254 Organic Chemistry II and Organic Chemistry Laboratory II
- CHY 371 Quantum Chemistry
- CHY 373, 374 Chemical Thermodynamics and Chemical Thermodynamics Laboratory
- CHY 470 Chemistry in Perspective

Choose two of the following six offerings:

- CHY 345 Polymer Chemistry
- CHY 351 Advanced Organic Chemistry
- CHY 377, 378 Spectroscopy and Instrumental Analysis Laboratory
- CHY 385 Pickles to Pints: Fermentation Science
- CHY 421 Inorganic Chemistry
- CHY 461 Biochemistry I

The following courses are also required:

- PHY 121, 114, 123, 116 General Physics I and II and Laboratory
The biochemistry program provides a rigorous and exciting pre-professional education for students interested in pursuing STEM careers or graduate school. To prepare students for a wide variety of career choices, the instructional laboratories provide interdisciplinary, project-based experiments for students to explore. The laboratory curriculum also provides students hands-on experience operating analytical instrumentation. There are opportunities for students to engage in faculty mentored research projects within the department and/or internships with local scientific firms in southern Maine.

Because 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 considering a biochemistry major are strongly urged to consult with a member of the Department of Chemistry faculty to discuss the program.

Program Requirements

To graduate as a chemistry major or minor in any of the programs, a student must earn a grade of C or better in all chemistry courses and a minimum grade point average of 2.0 in all other courses required for the major.

The minimum number of credits in chemistry and related areas (exclusive of the University's Core curriculum) required for the major in this track: 71-79.

The following courses are required:

CHY 113, 114 Principles of Chemistry I and Laboratory Techniques I
CHY 115, 116 Principles of Chemistry II and Laboratory Techniques II
CHY 233 Analytical Chemistry with Laboratory
CHY 251, 252 Organic Chemistry I and Organic Chemistry Laboratory I
CHY 253, 254 Organic Chemistry II and Organic Chemistry Laboratory II
CHY 373 Chemical Thermodynamics
CHY 461, 462 Biochemistry I and Biochemistry Laboratory I
CHY 463, 464 Biochemistry II and Biochemistry Laboratory II
Either CHY 421 Inorganic Chemistry
   OR CHY 377 Spectroscopy and CHY 378 Instrumental Analysis Laboratory

The following courses are also required:

BIO 105, 106 Biological Principles I: Cellular Biology and Laboratory Biology
PHY 121, 114, 123, 116 General Physics I and II and Laboratory
MAT 152 Calculus A
MAT 153 Calculus B

In addition, choose one of the following four groups of courses:

1. BIO 311, 282 Microbiology and Microbiological Laboratory
At least 12 credit hours beyond the 100-level must be taken within the Chemistry Department at USM.

BS in Chemistry

Description

The chemistry program provides a rigorous and exciting pre-professional education for students interested in pursuing STEM careers or graduate school. To prepare students for a wide variety of career choices, the instructional laboratories provide interdisciplinary, project-based experiments for students to explore. The laboratory curriculum also provides students hands-on experience operating analytical instrumentation. There are opportunities for students to engage in faculty mentored research projects within the department and/or internships with local scientific firms in southern Maine.

Because 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 considering the chemistry major are strongly urged to consult with a member of the Department of Chemistry faculty to discuss the program.

Program Requirements

To graduate as a chemistry major or minor in any of the programs, a student must earn a grade of C or better in all chemistry courses and a minimum grade point average of 2.0 in all other courses required for the major.

The minimum number of credits in chemistry and related areas (exclusive of the University's Core curriculum) required for the major in this track: 70.

The following courses are required:

CHY 113, 114 Principles of Chemistry I and Laboratory Techniques I
CHY 115, 116 Principles of Chemistry II and Laboratory Techniques II
CHY 233 Analytical Chemistry with Laboratory
CHY 251, 252 Organic Chemistry I and Organic Chemistry Laboratory I
CHY 253, 254 Organic Chemistry II and Organic Chemistry Laboratory II
CHY 371 Quantum Chemistry
CHY 373, 374 Chemical Thermodynamics and Chemical Thermodynamics Laboratory
CHY 377 Spectroscopy
CHY 378 Instrumental Analysis Laboratory
CHY 421 Inorganic Chemistry
CHY 470 Chemistry in Perspective

Choose one of the following four offerings:
The following courses are also required:

PHY 121, 114, 123 and 116 General Physics I and II and Laboratory
PHY 261 Computational Physics, or a math/computer science course approved by the Chemistry Department
MAT 152 Calculus A
MAT 153 Calculus B

At least 12 credit hours beyond the 100-level must be taken within the Chemistry Department at USM.

**Minor in Biochemistry**

**Description**

A minor in Biochemistry is intended to broaden the academic foundation of students who already have a solid scientific background in areas such as biology, biotechnology, environmental sciences, psychology, physics, and engineering. The curriculum exposes students to the first two years of introductory chemistry and one semester of biochemistry lecture and laboratory or two semesters of biochemistry lecture.

**Program Requirements**

To graduate as a chemistry major or minor in any of the programs, a student must earn a grade of C or better in all chemistry courses and a minimum grade point average of 2.0 in all other courses required for the major.

The minimum number of credits (exclusive of the Core Curriculum) required for the minor: 25. At least 6 credit hours beyond the 100-level must be taken within the Chemistry Department at USM.

The minor consists of the following courses:

CHY 113, 114 Principles of Chemistry I and Laboratory Techniques I
CHY 115, 116 Principles of Chemistry II and Laboratory Techniques II
CHY 251, 252 Organic Chemistry I and Organic Chemistry Laboratory I
CHY 253, 254 Organic Chemistry II and Organic Chemistry Laboratory II
CHY 461 Biochemistry I
Either CHY 462 Biochemistry Laboratory I
    OR CHY 463 Biochemistry II

The biochemistry minor is not open to chemistry majors.

**Minor in Chemistry**

**Description**

A minor in Chemistry is intended to broaden the academic foundation of students who already have a solid scientific background in areas such as
biology, biotechnology, environmental sciences, psychology, physics and engineering. The curriculum exposes students to the first two years of introductory chemistry and at least one upper level chemistry course.

**Program Requirements**

To graduate as a chemistry major or minor in any of the programs, a student must earn a grade of C or better in all chemistry courses and a minimum grade point average of 2.0 in all other courses required for the major.

The minimum number of credits (exclusive of the Core curriculum) required for the minor: 19. At least 6 credit hours beyond the 100-level must be taken within the Chemistry Department at USM.

The minor consists of the following courses:

CHY 113, 114 Principles of Chemistry I and Laboratory Techniques I  
CHY 115, 116 Principles of Chemistry II and Laboratory Techniques II

and one of the following groups of courses:

1. CHY 233 Analytical Chemistry with Laboratory  
   CHY 252, 252 Organic Chemistry I and Organic Chemistry Laboratory I

2. CHY 371 Quantum Chemistry  
   CHY 373, 374 Chemical Thermodynamics and Chemical Thermodynamics Laboratory  
   CHY 421 Inorganic Chemistry

**Course Descriptions**

**CHY 107 Chemistry for Health Sciences**  
A one-semester introduction to general, organic, and biological chemistry for the health sciences. Topics include acids and bases, pH, chemical kinetics and equilibria, the chemistry of organic compounds; carbohydrates, proteins, lipids, nucleic acids. This course is not suitable for chemistry majors, biology majors, or pre-professionals (pre-dental, pre-medical, pre-veterinary). Cr 3.

**CHY 110 Chemistry, Life, and the Environment**  
An introduction to chemistry and its importance to society. This course is centered on the nature of atoms and molecules, and how the structures of molecules give rise to the beneficial and harmful effects of chemicals. Classroom examples include medicines, consumer products, pollutants, and the molecules of life. Cr 3.

**CHY 113 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 non-laboratory experience. This course and CHY 114 (normally taken concurrently) provide the basis for further study of chemistry. The course consists of two lecture sessions and a one hour recitation each week. Pre- or corequisite: EYE (or concurrent), and MAT 108 (or concurrent) or MAT 140 (or concurrent) or MAT 152 (or concurrent) or permission. Cr 3.

**CHY 114 Laboratory Techniques I**  
Laboratory experiments to illustrate the principles that are presented in CHY 113 lectures. One recitation and two laboratory hours per week. Pre- or corequisite: CHY 113. Cr 1.5.

**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 113. 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 114. Pre- or corequisite: CHY 115. Cr 1.5.

CHY 233 Analytical Chemistry with Lab
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. Quantitative experimental determination by means of classical and instrumental methods. Techniques used include titration, gravimetric analysis, spectrophotometry, electroanalysis, and chromatography. Precision, accuracy, and statistical error analysis of results are emphasized. Prerequisite: a grade of C or better in CHY 115 and CHY 116. Cr 5.

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). Prerequisite: a grade of C or better in CHY 115. Cr 3.

CHY 252 Organic Chemistry Laboratory I
Students conduct independent research by executing a multi-step synthesis of a series of compounds. An additional goal is the characterization of the physical and chemical properties of the target molecules as well as the intermediates. Students will develop proficiency in synthetic methods, chromatography, and spectroscopy by working with model compounds. Prerequisite: a grade of C or better in CHY 116. Pre- 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. Prerequisite: a grade of C or better in CHY 251. Cr 3.

CHY 254 Organic Chemistry Laboratory II
Students will apply the skills they developed by working with model compounds in CHY 252 to the synthesis of the desired target molecules. Prerequisite: A grade of C or better in CHY 252. Pre- or corequisite: CHY 253. Cr 2.

CHY 345 Polymer Chemistry
We live in a plastic society. During the past 90 years plastics (synthetic polymers) have become an integral part of daily life. This course will survey the past, present, and future of the chemistry of these essential materials. Students will discuss preparation of polymers under radical chain, step-reaction, ionic, and coordination conditions. Then students will consider methods of characterization of polymers, both experimental and theoretical. Finally, students will examine commercial polymers and polymer technology. Prerequisites: a grade of C or better in CHY 253 and 373. Cr 3.

CHY 351 Advanced Organic Chemistry
This course will explore fundamentals of organic reaction mechanisms. A partial list of the topics to be covered includes steric, electronic, and stereo electronic effects; conformational analysis; thermodynamic and kinetic principles; applications of molecular orbital theory; reactive intermediates; and modern techniques used to study reaction mechanisms. Course content may vary from year to year, depending on student interests. Prerequisite: a grade of C or better in CHY 253. Cr 3.

CHY 371 Quantum Chemistry
Principles of theoretical chemistry: quantum mechanics and spectroscopy. Candidates for the B.S. degree elect this course in the fall semester of the junior year. Prerequisites: a grade of C or better in CHY 115, MAT 152, and PHY 123. Cr 3.

CHY 373 Chemical Thermodynamics
Principles of theoretical chemistry: classical thermodynamics, molecular energetics, equilibrium, reaction kinetics, statistical thermodynamics, and electrochemistry. Prerequisites: a grade of C or better in CHY 115, MAT 152, and PHY 123. Cr 3.

CHY 374 Chemical Thermodynamics Laboratory
Experiments illustrating material presented in CHY 373. One recitation and three laboratory hours per week. Prerequisite: a grade of C or better in CHY 116. Pre- or corequisite: CHY 373. Cr 2.

CHY 377 Spectroscopy
The course focuses on the structural elucidation of molecules through the use of mass spectrometry, infrared spectrometry, and nuclear magnetic spectrometry. A thorough consideration of the operation of the instrumentation used to obtain the spectra will also be addressed. Additional topics may include ultraviolet-visible and fluorescence spectrosopies and x-ray diffraction techniques. Prerequisite: a grade of C or better in CHY 233 and CHY 253. Pre- or corequisite: CHY 371 or permission of instructor. Cr. 3.

CHY 378 Instrumental Analysis Laboratory
Experiments will be performed in electrochemistry, mass spectrometry, gas and liquid chromatography, and UV-Vis, NMR, AA, and fluorescence spectroscopy. Prerequisites: grades of C or better in CHY 233 and CHY 254. Pre- or corequisite: CHY 377. One hour of pre-lab recitation and three laboratory hours per week. Cr 2.

**CHY 385 Pickles to Pints: Fermentation Science**
Investigation into a variety of fermentation products and the chemical and biological processes that are involved in creating these products. Prerequisites: CHY 233, CHY 251, BIO 281 or BIO 311, or instructor permission. Cr 3.

**CHY 410-419 Special Topics**
Reading and discussion of advanced subjects or instruction in special topics/research. Permission of instructor required. Cr 1-6.

**CHY 421 Inorganic Chemistry**
Descriptive chemistry of the inorganic compounds, structure, bonding and ligand field theory. Prerequisite: a grade of C or better in CHY 115. Pre- or corequisite: CHY 371 or permission of instructor. Cr 3.

**CHY 461 Biochemistry I**
Application of chemical methods and principles to understanding biological processes. Topics include structure and action of nucleotides, proteins, lipids, and carbohydrates; enzyme kinetics and mechanisms; membranes and transport; and metabolism and energy conversion. This one-semester course provides a survey of the major areas of biochemistry, except for nucleic acids. Prerequisite: a grade of C or better in CHY 253 or by instructor permission. Cr 3.

**CHY 462 Biochemistry Laboratory I**
Basic experimental methods in modern biochemistry. Experiments include detecting, purifying, crystallizing, and characterizing proteins; analyzing protein structure, and measuring enzyme kinetics. Techniques include ultraviolet and visible spectrophotometry; ion-exchange, gel, and high-pressure liquid chromatography; electrophoresis, and analysis of protein structure by computer graphics. One hour lecture and three hours laboratory per week. Prerequisite: a grade of C or better in CHY 254. Pre- or corequisite: CHY 461. Cr 2.

**CHY 463 Biochemistry II**
Continuation of CHY 461. Topics include selected biosynthetic pathways, including photosynthesis; signal transduction applied to hormones, nerve transmission, and the five senses; and methods for structural analysis of macromolecules, including X-ray diffraction, nuclear magnetic resonance, and homology modeling. Participants present a seminar on a topic of current biochemical research. Prerequisite: a grade of C or better in CHY 461. Cr 3.

**CHY 464 Biochemistry Laboratory II**
Continuation of CHY 462. 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 462. Pre- or corequisite: CHY 463. Cr 4. *(Credit hour correction to catalog made on 9/14/17.)*

**CHY 470 Chemistry in Perspective**
Capstone course in chemistry requiring both oral and written presentation of a current topic in chemistry with a laboratory component. This course includes an interdisciplinary component, as well as ethical, economic, and political considerations of the research topic. Required of all senior majors in the Chemistry BS and BA programs. Two hours of lecture and four hours of laboratory. Prerequisite: a grade of C or better in CHY 233, 253/254, and 373/374. Pre- or corequisite: CHY 371 and CHY 377/378. Cr 4.

**CHY 490 Senior Research Project**
Open to senior majors. Prerequisites include a 2.0 GPA in chemistry, completion of the Analytical and Organic Chemistry series, and permission of the department. 15 credits maximum. Cr 3-15.
Computer Science Overview

Chair of the Department: David Briggs

Associate Professors: Boothe, Briggs, MacLeod; Assistant Professor: Phoulady; Adjunct Faculty: Bantz, El-Taha, Felch, Heath, Houser, Largay, Rad

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. The B.S. degree in computer science is accredited by the Computing Accreditation Commission (CAC) of ABET, the national board that accredits computer, engineering, and technology programs (see http://www.abet.org).

Program Objectives

At the time of graduation, USM computer science students will be prepared for careers and/or graduate school. In three to five years, graduates of the USM computer science program will:

- have successful professional careers
- be valued, ethical members of their profession and society
- be actively involved in continuing their professional education

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 the undergraduate catalog.

BS in Computer Science

Description

The Bachelor of Science in Computer Science prepares students for either continued study at the graduate level or entry into the labor market. Students have been successful at both, with some earning doctoral degrees and some reaching high levels in the private sector, including the director of software development at a major corporation. The curriculum includes a required core of courses that provides a broad base of fundamental knowledge, but allows for individuals to follow their own specific interests at the advanced level. All courses focus on general principles that will remain valid into the future but use tools and vehicles reflecting contemporary practice.

Computer Science is perhaps the most pervasive technology of our time, reaching into every aspect of modern life, from work to recreation. It spans many disciplines, from mathematics and electrical engineering to linguistics, cognitive psychology and graphic design. It is a challenge to provide a definition of the essence of such a sprawling discipline, but one the department faculty like is "Computer Science is the study of what can be automated."

Many people imagine that one must learn advanced mathematics to become a computer scientist or software developer. To be sure, some applications, such as computational modeling of physical processes, require techniques from advanced mathematics. Other applications, however, do not require mathematics beyond the basics taught in a strong high school program. Far more important is the ability to think logically and precisely and the ability to devise a plan to solve a problem. Students have successfully converted to Computer Science from a variety of non-technical disciplines, including history, classics, and English literature.
Program Requirements

In addition to meeting departmental requirements for a major, students must meet the University Core Curriculum requirements. Students are advised that COS 420 Object-Oriented Design satisfies the Core Curriculum Capstone requirement.

The total number of credits for graduation is 120.

Courses used to fulfill major requirements in sections A through E below must be passed with a grade of C– or better. The cumulative grade point average of all courses applied to the major must be at least 2.0. A maximum of 3 credits of COS 497 can be used to meet a degree requirement.

The specific course requirements are as follows:

A. Computer Science:
   - COS 160 Structured Problem Solving: Java
   - COS 161 Algorithms in Programming
   - COS 170 Structured Programming Laboratory
   - COS 250 Computer Organization
   - COS 255 Computer Organization Laboratory
   - COS 285 Data Structures
   - COS 350 Systems Programming
   - COS 360 Programming Languages
   - COS 398 Professional Ethics and Social Impact of Computing
   - COS 420 Object-Oriented Design
   - COS 485 Design and Analysis of Computing Algorithms

B. Computer Systems:
   - COS 450 Operating Systems or COS 457 Database Systems

C. Completion of three additional COS courses numbered 300 and above, excluding COS 498. Graduate courses in the Computer Science Department can be used to fulfill the requirements in section C.

D. Mathematics and Science requirements:
   1. Completion of:
      - MAT 145 Discrete Mathematics I
      - COS 280 Discrete Mathematics II
   
      2. Enough additional courses from the following list to total, with the two required courses of the last item, at least 15 credit hours:
         - EGN 181/MAT 181 Computing with Mathematica
         - MAT 152 Calculus A
         - MAT 153 Calculus B
         - MAT 252 Calculus C
         - MAT 281 Introduction to Probability
         - MAT 282 Statistical Inference
         - MAT 295 Linear Algebra
         - MAT 350 Differential Equations
         - MAT 352 Real Analysis
         - MAT 355 Complex Analysis
         - MAT 364 Numerical Analysis
         - MAT 366 Deterministic Models in Operations Research
         - MAT 380 Probability and Statistics
         - MAT 383 System Modeling and Simulation
         - MAT 392 Theory of Numbers
         - MAT 395 Abstract Algebra
         - MAT 460 Mathematical Modeling
         - MAT 461 Stochastic Models in Operations Research
         - MAT 470 Non-Euclidean Geometry
         - MAT 490 Topology
         - MAT 492 Graph Theory and Combinatorics

   3. Completion of a two-semester sequence of any of the following:
CHY 113, 114 Principles of Chemistry I with Lab
CHY 115, 116 Principles of Chemistry II with Lab
or
PHY 121, 114 General Physics I with Lab
PHY 123, 116 General Physics II with Lab
or
BIO 105, 106 Biological Principles I: Cellular Biology with Lab
BIO 107 Biological Principles II: Evolution, Biodiversity, and Ecology
or
ESP 101, 102 Fundamentals of Environmental Science with Lab
ESP 125, 126 Introduction to Environmental Ecology with Lab

4. Enough additional courses from the list in D(2) or the sciences to total at least 30 credit hours in mathematics and science when combined with courses taken for D(1), D(2), and D(3). A science course taken to fulfill this requirement must be one that satisfies a degree requirement within its discipline. If the course has an accompanying lab, then the lab also must be taken.

E. Communication skills requirement:
   THE 170 Public Speaking
   ITP/EGN 210 Technical Writing

**Recommended Course Sequence**

**Recommended Course Sequence**

The following schedule of mathematics and computer science courses is typical for the first and second years.

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>First year</td>
<td>COS 160</td>
<td>COS 161</td>
</tr>
<tr>
<td></td>
<td>COS 170</td>
<td>MAT 145</td>
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<tr>
<td>Second year</td>
<td>COS 280</td>
<td>COS 250</td>
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<td></td>
<td>COS 285</td>
<td>COS 255</td>
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</table>

**Minor in Computer Science**

**Description**

The Minor in Computer Science is intended for individuals who want to combine a basic knowledge of programming practice and computer hardware with more extensive knowledge in another domain. Students who minor in Computer Science will be able to write programs to perform useful tasks in their areas of specialty. They will be prepared to recognize opportunities to automate tasks from their domains, and to liaison between technical and non-technical staff. They are not required to learn as much theoretical material and do not get the breadth and depth that majors receive.

**Program Requirements**

The minimum number of credits required for the minor: 22. A minor in computer science may be obtained by successfully completing the following courses with a cumulative grade point average of 2.0:

- COS 160 Structured Problem Solving: Java
- COS 170 Structured Programming Laboratory
- COS 161 Algorithms in Programming
- COS 250 Computer Organization
- COS 255 Computer Organization Laboratory
- COS 285 Data Structures

and two additional COS courses numbered 250 or greater, excluding COS 498 Computer Science Internship
Course Descriptions

- Undergraduate
- Graduate

Undergraduate

Course Fees

In some computer science courses fees are assessed to cover the cost of materials, supplies, and tutorial support staff.

COS 160 Structured Problem Solving: Java
An introduction to the use of digital computers for problem solving, employing the Java programming language as a vehicle. Content includes elementary control structures and data representation methods provided by Java and the object-oriented programming methodology. Course requirements include a substantial number of programming projects. This course must be taken concurrently with COS 170. Offered each semester. Prerequisite: successful completion of the University's mathematics readiness requirement. 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 a substantial number of programming projects. Offered each semester. Prerequisites: COS 160, and working knowledge of word processing and Web browsing. Cr 4.

COS 170 Structured Programming Laboratory
Computational experiments will be designed to teach students how to construct reliable software using Java. Topics to be covered include: Windows system, conditional program flow, iteration, procedures and functions, and symbolic debugging. This course must be taken concurrently with COS 160. Offered each semester. Cr 1.

COS 184 Python Programming
A first introduction to computer programming for solving practical problems, taught in Python, a modern object-oriented, dynamic computer language. The course teaches how to represent aggregates of data, process data selectively and repetitively, structure programs with functions and use predefined libraries with an eye towards acquiring, managing, visualizing and performing basic analysis of sets of data. Lots of hands-on programming, both at home and in the lab. Prerequisites: MAT 108 or permission of the instructor. Cr 4.

COS 200 Introduction to Cyber Security
An introduction to the fundamentals of cyber security and information assurance. Students will develop a knowledge base for defining and recognizing both online threats and potential targets. Students will develop intellectual tools for evaluating relative risks within cyberspace, and apply theories and best practices for addressing potential costs of countermeasures for cyber attacks. Prerequisites: COS 160/170 or ITT 181 or permission of instructor. 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. Typically offered only in the spring semester. Prerequisite: COS 161. This course must be taken concurrently with COS 255. Cr 3.

COS 255 Computer Organization Laboratory
Students design, build, and test combinational and sequential logic circuits and write assembly language programs. Typically offered only in the spring semester. This course must be taken concurrently with COS 250. Cr 1.

COS 280 Discrete Mathematics II
Concepts of modern algebra, set theory, Boolean algebra and predicate logic, elements of graph theory, and their application to computer science. This course emphasizes a syntactic approach to proof discovery. Typically offered only in the fall semester. Prerequisites: MAT 145 and COS 160. Cr 4.

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. Typically offered only in the fall semester. Prerequisites: COS 161 and either MAT 145 or MAT 152, or their equivalents. Cr 4.

COS 350 Systems Programming
A study of systems programming concepts and software, including the C programming language and the Unix programming environment and operating system interface. Students develop their abilities in these areas through programming exercises and projects. Typically offered only in the spring semester. Prerequisites: COS 250 and COS 285. Cr 3.

COS 360 Programming Languages
Students will acquire principles of programming languages and systems, such as (i) core notions (syntax, semantics, types, and implementation models), (ii) differing language paradigms (procedural, object-oriented, functional, logic), their design principles, and their implications for programming along with their mathematical foundations. These principles are studied as the basis for (i) applications in modeling and design of computer software, (ii) usage of modern techniques and tools associated with programming language. Typically offered only in the fall semester. Prerequisite: COS 285. Cr 3.

COS 368 Graphical User Interface Design
Principles of graphical user interface design are utilized to build working interfaces. The programming language used may vary. Possible languages include Java and C++. Students will work in an object-oriented, event-driven environment. Typically offered once every two years. Prerequisite: COS 285 or permission of instructor. 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. Typically offered once every two years. Prerequisites: MAT 252, MAT 295, COS 160, or permission of instructor. Cr 3.

COS 375 Web Applications Development
This course focuses on development of well-designed web applications. Students will learn how to build rich user interfaces using client-side frameworks, develop web services, and use design patterns in their software applications. Course requirements include a substantial number of programming projects. Prerequisites: COS 285, or permission of instructor. Cr 4.

COS 389 Programming Autonomous Robots
Introduction to the programming concepts involved with autonomous robotic systems. Using off-the-shelf "robot kits" students will design a simple robotic platform to meet specific goals. Then, using a common platform for the remainder of the course, students will develop their programming capabilities. Simple open-ended, feedback, and artificial intelligence systems will be explored throughout the course. Several benchmarks and robot competitions will be used to demonstrate the platform and programming learned in the course. Typically offered once every two years. Prerequisite: COS 285. Cr 3.

COS 398 Professional Ethics and Social Impact of Computing
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. Typically offered only in the spring semester. Prerequisite: COS 161 or permission of instructor. Cr 3.

COS 420 Object-Oriented Design
This course will focus on the construction of object-oriented software. Students will learn conceptual models for organizing objects and object hierarchies, an object-oriented design notation, the application of design patterns, and the use of software development methodologies such as the Agile development process. The capabilities will be used to solve relatively complex problems in a group setting. Typically offered only in the spring semester. Prerequisite: COS 285. Cr 4.

COS 444 Software Project Management
This course covers project life cycle, including developing the charter, plans and justification, outsourcing and procurement decisions, scope management, time and cost estimation, quality control, personnel management, risk assessment, and the critical role of communication, both internal and external, to the project. Students will learn to lead and participate in significant software projects. Experienced professionals from industry will visit the class. Typically offered once every two years. Prerequisite: COS 285. Cr 4.

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 have some experience with UNIX or other multiprogramming operating system. Typically offered once every two years. Prerequisites: COS 250 and COS 350. 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. Typically offered once every two years. Prerequisite: COS 285. Cr 4.

COS 457 Database Systems
Study of the methods and principles of database management systems (DBMS). Topics addressed include DBMS objectives and architecture, data models, the SQL data definition and data manipulation language, and providing Internet access to databases. The entity-relationship and relational models are emphasized and their use required in a design project. Typically offered once every two years. Prerequisites: COS 280 and COS 285. Cr 3.

COS 460 Computer Networks
An introduction to computer networks, computer network architecture is described. Other topics include digital data communication, local area networks, wide area networks, internetworks, and the Internet. Specific technologies, including Ethernet and ATM, and protocols, including TCP/IP, will be considered in detail. Typically offered once every two years. Prerequisite: COS 285. Cr 3.

COS 465 Distributed Systems
An introduction to the design and operation of distributed systems. Topics include client-server models, interprocess communications, RPC, replication and consistency, online transaction processing, error and fault recovery, encryption and security. Examples will be taken from extant distributed systems. Prerequisites: COS 450 and COS 460, or their equivalents, or permission of instructor. Cr 3.

COS 469 Compiler Construction
Definition of languages via context-free grammars. Organization of a compiler into phases of lexical analysis, parsing, code generation, and optimization. Students will implement a compiler for a Pascal-like language. Typically offered once every two years. Prerequisite: COS 360. Cr 3.

COS 470 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 472 Artificial Intelligence and Data Mining
An introduction to the underlying concepts and applications of intelligent systems. Topics include heuristic search techniques, pattern matching, rule-based systems, computer representations of knowledge, and machine learning and data mining techniques. Course work includes regular labs and large projects. Students will learn to conduct research in artificial intelligence and will complete a modest research project. Typically offered once every two years. Prerequisite: COS 285 or permission of instructor. Cr 3.

COS 475 Machine Learning
The basic theory, algorithms, and applications of Machine Learning are covered in this course. Students will develop an understanding of learning theory, supervised and unsupervised learning algorithms, and reinforcement learning techniques. The course will also explore recent practical applications of machine learning. Prerequisite: COS 285 or a knowledge of basic computer science principles and skills, at a level sufficient to write a reasonably non-trivial computer program. Cr 4.

COS 478 Advanced Java Technology
The goal of this course is to provide an in-depth study of the most important and more advanced components of Java technology. The course covers topics such as concurrent object-oriented programming in Java, Java Core Reflection, the underlying virtual platform (the Java Virtual Machine), genericity (parametric polymorphism), persistence, and assertions. Programming assignments include concurrent programming, programming with parametric collection types, dynamic loading and compilation, usage of the Java reflective capabilities, and usage of persistent capabilities available in Java and in its extensions. The outcome of this course is a high-level of professional expertise in the overall Java technology. Typically offered once every two years. Prerequisite: COS 360. Cr 3.

COS 485 Design and Analysis 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. Many problems of practical importance are covered including: minimum spanning tree, single source shortest path, traveling salesman, and graph search. The concepts of NP-completeness are also considered. Substantial programming in a high-level language. Typically offered only in the spring semester. Prerequisite: COS 285. Cr 3.

COS 495 Advanced Web Architectures
The focus of communication over the Internet is shifting to computer-to-computer interaction. Standards for this interaction (ebXML, SOAP, WSFL) are now in place and maturing, and commercial use is exploding. Students will survey these standards and evaluate their security, efficiency, and completeness. Several case studies will be constructed, including Web-based commerce. As a team, students will acquire and learn how to use available tooling, put together working Web services, and test their ability to interact with each other. Typically offered once every two years. Prerequisites: COS 285 and junior standing. 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. At most, three credits of COS 497 can be used to satisfy degree 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's 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.

**Graduate (Back to top)**
Graduate level computer science courses are generally restricted to graduate students who have successfully gone through an admissions procedure, but others may take them by permission from the instructor.

**COS 540 Computer Networks**
An introduction to computer networks, computer network architecture is described. Other topics include digital data communication, local area networks, wide area networks, internetworks, and the Internet. Specific technologies, including Ethernet and ATM, and protocols, including TCP/IP, will be considered in detail. Typically offered once every two years. Prerequisite: graduate standing. Cr 3.

**COS 542 Distributed Systems**
An introduction to the design and operation of distributed systems. Topics include client-server models, interprocess communications, RPC, replication and consistency, online transaction processing, error and fault recovery, encryption, and security. Examples will be taken from extant distributed systems. Students will design and implement a distributed system. Prerequisites: COS 450 and COS 460, or their equivalents, or permission of instructor. Cr 3.

**COS 544 Software Project Management**
The course covers project life cycle, including developing the charter, plans and justification, outsourcing and procurement decisions, scope management, time and cost estimation, quality control, personnel management, risk assessment, and the critical role of communication, both internal and external, to the project. Students will learn to lead and participate in significant software projects. Experienced professionals from industry will visit the class. Typically offered once every two years. Prerequisite: junior standing and some programming experience. Cr 3.

**COS 550 Operating Systems**
Topics include concurrent processes, process management, I/O, virtual memory, file management, resource scheduling and performance measurement. Prerequisite: graduate standing. Cr 3.

**COS 558 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 manipulation languages (in particular, SQL) and providing internet access to databases. The entity-relationship and relational models are emphasized and their use required in a design project. Prerequisite: graduate standing. Cr 3.

**COS 569 Compiler Construction**
Definition of languages via context-free grammars. Organization of a compiler into phases of lexical analysis, parsing, code generation, and optimization. Students will implement a compiler for a Pascal-like language. Typically offered once every two years. Prerequisite: graduate standing. Cr 3.

**COS 570 Seminar: Advanced Topics in Computer Science**
Topics vary from year to year and will include current research, emerging technologies, and case studies. Cr 3.

**COS 571 Advanced Database Systems**
This course covers advanced, post-relational database systems such as object-oriented databases, XML database technologies, integration of different technologies such as LINQ, object oriented interfaces to XML and integration with the object-oriented technology. Object-oriented topics include developments from industrial standards such as ODMG and Java Data Objects, query languages such as OQL, Java database technology, object-relational systems and language integrated queries such as LINQ. Object-oriented interfaces to XML include DOM, LINQ to XML, LINQ to XSD, as well as other industrial developments. Requirements include object-oriented software and database development projects, and a term paper. Typically offered once every two years. Prerequisite: permission of instructor. Cr 3.

**COS 572 Artificial Intelligence and Data Mining**
An introduction to the underlying concepts and applications of intelligent systems. Topics include heuristic search techniques, pattern matching, rule-based systems, computer representations of knowledge, and machine learning and data mining techniques. Course work includes regular labs and large projects. Students will learn to conduct research in artificial intelligence and will complete a modest research project. Typically offered once every two years. Cr 3.

**COS 575 Machine Learning**
The basic theory, algorithms, and applications of Machine Learning are covered in this course. Students will develop an understanding of learning
theory, supervised and unsupervised learning algorithms, and reinforcement learning techniques. The course will also explore recent practical applications of machine learning. Prerequisite: knowledge of basic computer science principles and skills, at a level sufficient to write a reasonably non-trivial computer program. Cr 4.

**COS 576 Advanced Object-Oriented Design**
This course considers developing object-oriented, multi-tier, Web-based applications. Topics will include object-oriented design patterns in distributed environments, software components, and software frameworks. The course has a significant hands-on implementation component, and, after completing the course, students will have practical experience with several leading-edge distributed object technologies, including AJAX, Web Services, Enterprise JavaBeans, JDBC, and Servlets. Students will work in teams to develop a medium-sized, multi-tier application that incorporates several of the technologies mentioned above. Lectures will provide an introduction to the technologies and discuss principled ways to apply these technologies. Typically offered once every two years. Prerequisite: COS 420 or permission of instructor. Cr 4.

**COS 582 Design and Analysis of Computing Algorithms**
Techniques for designing algorithms, such as divide-and-conquer, greedy method, dynamic programming, and backtracking are emphasized and illustrated. Many problems of practical importance are covered, including minimum spanning tree, single source shortest path, traveling salesperson, and graph search. The concepts of NP-completeness are also considered. Prerequisite: graduate standing. Cr 3.

**COS 595 Advanced Web Architectures**
The focus of communication over the Internet is shifting to "computer-to-computer" interaction. Standards for this interaction (ebXML, SOAP, WSFL) are now in place and maturing, and commercial use is exploding. Students will survey these standards and evaluate their security, efficiency, and completeness. Several case studies will be constructed, including Web-based commerce. As a team, students will acquire and learn how to use available tooling, put together working Web services, and test their ability to interact with each other. Typically offered once every two years. Prerequisite: graduate standing. Cr 3.

**COS 598 Internship**
Students apply their learning to a specific problem in a practical context under faculty and managerial supervision. See Departmental guidelines for more details. Prerequisites: full graduate standing and prior approval of proposal by the Department chair and instructor. Cr 1-3.

**COS 697 Independent Study**
An opportunity for graduate students to pursue areas not currently offered in the graduate curriculum. Cr 1-4.

**COS 696 Master's Project**
A 3-credit project that is one of two options for completing the Master's degree requirements. The project must be supervised by a committee and the project proposal approved in advance. Offered only as a pass/fail course. Prerequisites: full graduate standing and faculty approval. Cr 3.

**COS 698 Master's Thesis**
A 6-credit thesis that is one of two options for completing the Master's degree requirements. The thesis project must be supervised by a committee and the project proposal approved in advance. Offered only as a pass/fail course. Prerequisites: full graduate standing and faculty approval. Cr 6.
Engineering

Engineering Overview

Chair of the Department: Mariusz Jankowski

Professors: Guvench, Jankowski; Associate Professors: Ghorashi, Lin, Lück; Assistant Professor: Guo; Lecturer: Davis; Adjunct Professor and Dean Emeritus: Hodgkin; Adjunct Professor: Masi; Adjunct Associate Professors: Most, Smith, Soda; Adjunct Lecturers: Chen, Harding, Luo, Rabasca

Engineering is a challenging profession concerned with the design, development, fabrication, and control of physical devices and systems.

The Engineering Department provides a solid and complete engineering education built upon a foundation of mathematics, science, and the liberal arts. The undergraduate programs are broadly based, but there are opportunities to specialize. Computer usage is integrated throughout the curriculum. Internships with industrial partners are available to students at all levels.

The Department serves both traditional and nontraditional students who are diverse in academic background, age, and life experience. The Department also provides a technical resource to the community by linking the teaching, research, and public service capabilities of the Department with the needs of the industries, organizations, and institutions of southern Maine.

Engineering programs include bachelor of science degrees in electrical engineering and in mechanical engineering, a concentration in computer engineering, minors in electrical and mechanical engineering, a transfer program that delivers the first year or more of several other engineering specialties, and an accelerated undergraduate-graduate degree pathway with the School of Business that delivers a master's in business administration (MBA) with an engineering concentration.

The Engineering Department is committed to maximizing the student's potential to achieve his or her academic goals. Upon admission, the student is assigned an advisor from among the engineering faculty. The student is then expected to meet with the advisor every semester before registering for classes. Regular contact with an advisor provides assistance for course selection and satisfactory progress toward meeting academic goals, but the primary responsibility for satisfying program requirements rests with the student. Courses are scheduled and rotated to provide maximum access to the breadth of technical electives and to make it possible for a full-time student to graduate in four years. Students are encouraged to pursue double majors, minors, concentrations, additional courses and internships to increase access and opportunities for a diverse and productive engineering career.

Engineering is constantly evolving, and the department's curricula reflect it. Newly matriculated students must adopt the most recent catalog year. Current students or students transferring from other degree programs at USM may keep their existing catalog year or change to a more recent one. All curricular options may be surveyed at usm.maine.edu/engineering/engineering-curricula.

Accelerated Graduate Pathway - Engineering to Masters in Business Administration (MBA)

An MBA is a useful degree for an engineer who aspires to advance his/her career within a corporation, or who wants to open a consulting business or a startup company. Learning how to solve different business problems and understanding marketing and management-related issues are some key skills an MBA degree can offer. Having already obtained a technical degree, an MBA supplements students education in the wider areas of management that usually include subjects such as finance, marketing, organizational behavior, and management strategy.

The Accelerated Pathway program allows interested and qualified students to complete a bachelor’s degree in engineering and the MBA with the Engineering Concentration in five years. Generally, students in pathway programs focus on their bachelor’s degree requirements during their first three years, a mix of bachelor’s and master's requirements in the fourth year, and only master's requirements in the fifth year. Each degree is awarded once the specific degree requirements are successfully met.

The MBA program is comprised of 27 credit hours of core courses and 9 credit hours of elective courses. In addition, up to 15 credit hours of foundation courses may be required. MBA students must take a minimum of 6 MBA Core Requirement courses after graduating with a bachelor's degree in order to earn a master’s in business administration.

Students in the Accelerated Pathway program are required to maintain a grade point average of 3.0 or higher after 90 credit hours of
undergraduate coursework to remain in good standing and be allowed to continue in the program. Enrollment in 600-level MBA courses may only occur in a student's final year of undergraduate coursework.

The Engineering Concentration leverages graduate-level coursework in engineering to fulfill the elective portion of the MBA requirements, and requires engineering design work with a business focus as a capstone. The concentration was tailored to be pursued by current engineering students as part of an accelerated pathway, but it is also available to anyone who has already earned a bachelor's degree in engineering or in a related field of study.

In addition to the core requirements of the MBA program (http://usm.maine.edu/sb/mba-business-administration), the following requirements apply to the Engineering Concentration:

1. Select three graduate-level elective courses in engineering; and

2. Complete EGN 602 Graduate Design Project to fulfill the MBA 698 (Practicum) requirement in the last semester of the MBA program.

Graduate courses in engineering (consult the department for additional offerings):

EGN 517 Introduction to Robotics
EGN 546 Micro Electromechanical Systems
EGN 598 Graduate Topics in Engineering
EGN 602 Graduate Design Project
ELE 527 Energy and Power Systems
ELE 544 Analog Integrated Circuits and Design
MEE 552 Analysis and Design of Composite Structures
MEE 561 Physical Metallurgy
MEE 575 Engineering Acoustics

Credits to graduate:
Electrical Engineering: 131.5
Electrical Engineering with the Computer Engineering Concentration: 134.5
Mechanical Engineering: 134.5
MBA with the Engineering Concentration: 27

BS in Electrical Engineering

Description

The electrical engineering program is accredited by the EAC (Engineering Accreditation Commission) of ABET (formerly the Accreditation Board for Engineering and Technology).

Graduates of the program are prepared to:
1. excel as engineers in technologically-intensive environments;
2. succeed in post-baccalaureate and graduate studies;
3. transfer their acquired skills to a variety of contexts and endeavors; and
4. contribute to society as broadly educated, articulate, and ethical professionals and citizens.

These objectives are complementary to and in addition to the general education objectives of the University.

The electrical engineering program may be augmented with a Concentration in Computer Engineering and/or an Engineering MBA.

**Program Requirements**

The course requirements are as follows (concurrent core curriculum requirements are noted in parenthesis for reference):

**Mathematics**
- MAT 152 Calculus A (Core: Quantitative Reasoning)
- MAT 153 Calculus B
- MAT 252 Calculus C (Core: Cluster Alternative)
- MAT 380 Probability and Statistics (Core: Cluster Alternative)

**Computer Programming**
- EGN 160 Introduction to Programming: The C Language; or
- COS 160 Structured Problem Solving: Java; and
- COS 170 Structured Programming Laboratory

**Basic Science**
- CHY 113 Principles of Chemistry I (Core: Science Exploration)
- CHY 114 Laboratory Techniques I (Core: Science Exploration)
- PHY 121 General Physics I
- PHY 114 Introductory Physics Laboratory I
- PHY 123 General Physics II
- PHY 116 Introductory Physics Laboratory II

**Creative Expression (Core)**
- THE 170 Public Speaking or HON 175 Oral Interpretation of Texts

**Engineering Core**
- EYE 112 Built Environment: Energy (Core: Entry Year Experience)
- EGN 210 Technical Writing
- ELE 216 Circuits I: Steady-State Analysis
- ELE 217 Circuits II: System Dynamics
- ELE 219 Circuits Laboratory
- EGN 248 Introduction to Differential Equations and Linear Algebra
- EGN 260 Materials Science for Engineers
- EGN 301 Junior Design Project and the Engineering Profession
- EGN 304 Engineering Economics (Core: Professional Practices Cluster)
- ELE 323 Electromechanical Energy Conversion
- EGN 402 Senior Design Project (Core: Capstone)

**Electrical Engineering**
- ELE 172 Digital Logic
- ELE 271 Microprocessor Systems
- ELE 314 Linear Signals and Systems
- EGN 325 Control Systems
- EGN 329 Electromechanical and Control Systems Laboratory
- ELE 342 Electronics I: Devices and Circuits
- ELE 343 Electronics II: Electronic Design
- ELE 351 Electromagnetic Fields
- ELE 486 Digital Signal Processing
- ELE 489 Analog and Digital Signals Laboratory

**Technical Electives**
- Completion of five (5) engineering courses with 3 or more credits each at the junior or senior level (ELE, EGN or MEE >300), in addition to those explicitly required above.
For graduation, electrical engineering majors must maintain an overall grade point average of 2.0 and a cumulative grade point average of 2.0 in engineering courses.

Permission from the student's advisor is required before taking any course outside USM to satisfy a requirement of the major.

University Core Curriculum requirements are outlined elsewhere in this catalog. Some requirements of the Bachelor of Science in Electrical Engineering degree program also satisfy Core Curriculum requirements, as noted.

Credits to graduate: 125.5

**Computer Engineering Concentration**

Students with a particular interest in the design and application of computer hardware and software systems may choose the computer engineering concentration. The requirements for the Bachelor of Science Degree in Electrical Engineering with a Concentration in Computer Engineering differ from the standard electrical engineering degree as follows:

Students in the concentration are not required to take ELE 323, EGN 325, EGN 329, and ELE 351. Instead, they are required to take COS 160, COS 161, COS 170, COS 285, a junior- or higher-level computer science elective, and one additional computer science or engineering elective 

For graduation, majors of electrical engineering with a concentration in computer engineering must maintain an overall grade point average of 2.0 and a cumulative grade point average of 2.0 in engineering and computer science courses.

Credits to graduate: 129.5

**Recommended Course Sequence**

The recommended course sequence in tabular and in graphical form can be viewed at www.usm.maine.edu/engineering/engineering-curricula.

**Admission Information**

Preparation for the Bachelor of Science in Electrical Engineering degree program should include a high school transcript with 4 units of English, 2 units of social science, 1 unit of chemistry with lab, 1 unit of physics with lab, and 4 units of mathematics including algebra II and trigonometry. Incoming students who do not satisfy the admission requirements may enroll in preparatory courses provided by the University. Transfer students require a transfer GPA of 2.25.

**BS in Mechanical Engineering**

**Description**

The mechanical engineering program is accredited by the EAC (Engineering Accreditation Commission) of ABET (formerly the Accreditation Board for Engineering and Technology).

Graduates of the program are prepared to:

1. excel as engineers in technologically-intensive environments;
2. succeed in post-baccalaureate and graduate studies;
3. transfer their acquired skills to a variety of contexts and endeavors; and
4. contribute to society as broadly educated, articulate, and ethical professionals and citizens.

These objectives are complementary to and in addition to the general education objectives of the University.

**Program Requirements**

The course requirements are as follows (concurrent core curriculum requirements are noted for reference):

Mathematics
MAT 152 Calculus A (Core: Quantitative Reasoning)
MAT 153 Calculus B
MAT 252 Calculus C (Core: Cluster Alternative)
MAT 380 Probability and Statistics (Core: Cluster Alternative)

Computer Programming
EGN 160 Introduction to Programming: The C Language; or
COS 160 Structured Problem Solving: Java; and
COS 170 Structured Programming Laboratory

Basic Science
CHY 113 Principles of Chemistry I (Core: Science Exploration)
CHY 114 Laboratory Techniques I (Core: Science Exploration)
PHY 121 General Physics I
PHY 114 Introductory Physics Laboratory I
PHY 123 General Physics II
PHY 116 Introductory Physics Laboratory II

Creative Expression (Core)
THE 170 Public Speaking or HON 175 Oral Interpretation of Texts

Engineering Core
EYE 112 Built Environment: Energy (Core: Entry Year Experience)
EGN 210 Technical Writing
ELE 216 Circuits I: Steady-State Analysis
ELE 217 Circuits II: System Dynamics
ELE 219 Circuits Laboratory
EGN 248 Introduction to Differential Equations and Linear Algebra
EGN 260 Materials Science for Engineers
EGN 301 Junior Design Project and the Engineering Profession
EGN 304 Engineering Economics (Core: Professional Practices Cluster)
ELE 323 Electromechanical Energy Conversion
EGN 402 Senior Design Project (Core: Capstone)

Mechanical Engineering
MEE 150 Applied Mechanics: Statics
MEE 230 Thermodynamics I: Laws and Properties
MEE 251 Strength of Materials
MEE 259 Statics and Strength of Materials Laboratory
MEE 270 Applied Mechanics: Dynamics
MEE 331 Thermodynamics II: Flows and Cycles
MEE 339 Thermodynamics Laboratory
MEE 360 Fluid Mechanics
MEE 372 Computer-Aided Design of Machine Elements
MEE 373 Design of Machines and Mechanisms
MEE 374 Theory and Applications of Vibrations
MEE 379 Dynamics and Vibrations Laboratory
MEE 432 Heat Transfer
MEE 439 Fluid Mechanics and Heat Transfer Laboratory

Technical Electives
Completion of four (4) engineering courses with 3 or more credits each at the junior or senior level (ELE, EGN or MEE >300), in addition to those explicitly required above.

For graduation, mechanical engineering majors must maintain an overall grade point average of 2.0 and a cumulative grade point average of 2.0 in engineering courses.

Permission from the student's advisor is required before taking any course outside USM to satisfy a requirement of the major.

University Core Curriculum requirements are outlined elsewhere in this catalog. Some requirements of the Bachelor of Science in Mechanical Engineering degree program also satisfy Core Curriculum requirements, as noted.

Credits to graduate: 128.5
Recommended Course Sequence

The recommended course sequence in tabular and in graphical form can be viewed at www.usm.maine.edu/engineering/engineering-curricula.

Admission Information

Preparation for the Bachelor of Science in Mechanical Engineering degree program should include a high school transcript with 4 units of English, 2 units of social science, 1 unit of chemistry with lab, 1 unit of physics with lab, and 4 units of mathematics including algebra II and trigonometry. Incoming students who do not satisfy the admission requirements may enroll in preparatory courses provided by the University. Transfer students require a transfer GPA of 2.25.

Minor in Electrical Engineering

Description

The minor in electrical engineering is designed for students majoring in other disciplines who desire an exposure to the theory and practice of electrical engineering. The minimum number of credits (exclusive of prerequisites) for the minor is 14. An engineering faculty will be assigned as an advisor to assist with scheduling and track student progress toward the minor.

Program Requirements

Successful completion of the following courses with a cumulative grade point average of 2.0:

- ELE 172 Digital Logic
- ELE 216 Circuits I: Steady-State Analysis
- ELE 217 Circuits II: System Dynamics
- ELE 219 Circuits Laboratory

One course from the following:

- ELE 271 Microprocessor Systems
- ELE 314 Linear Signals and Systems
- ELE 342 Electronics I: Devices and Circuits

Recommended Course Sequence

The recommended course sequence in tabular and in graphical form can be viewed at www.usm.maine.edu/engineering/engineering-curricula.

Admission Information

Contact the Engineering Department to obtain information on how to add a minor in electrical engineering.

Minor in Mechanical Engineering

Description

The minor in mechanical engineering is designed for students majoring in other disciplines who desire an exposure to the theory and practice of
mechanical engineering. The minimum number of credits (exclusive of pre-requisites) for the minor is 13. An engineering faculty member will be assigned as an advisor to assist with scheduling and track student progress toward the minor.

Program Requirements

Successful completion of the following courses with a cumulative grade point average of 2.0:

- MEE 150 Applied Mechanics: Statics
- MEE 230 Thermodynamics I: Laws and Properties
- MEE 251 Strength of Materials
- MEE 259 Statics and Strength of Materials Laboratory
- MEE 270 Applied Mechanics: Dynamics

Recommended Course Sequence

The recommended course sequence in tabular and in graphical form can be viewed at www.usm.maine.edu/engineering/engineering-curricula.

Admission Information

Please contact the Engineering Department to obtain information on how to add a minor in mechanical engineering.

Transfer Program in Engineering

Description

The transfer program in engineering prepares students to begin engineering studies at USM and then complete engineering degrees at the University of Maine or elsewhere. It also allows students who are undecided, or who do not yet meet all engineering degree program admission requirements, to become matriculated in engineering and begin taking classes prior to transferring to an engineering degree program at USM. All students matriculated in this program are eligible to transfer to any accredited engineering program in the country for completion of the degree.

Program Requirements

Requirements vary depending on the requirements of the program a student will transfer to for the completion of the degree.

Recommended Course Sequence

The recommended course sequence in tabular and in graphical form can be viewed at www.usm.maine.edu/engineering/engineering-curricula.

Admission Information

Preparation for the transfer program in engineering should include a high school transcript with 4 units of English, 2 units of social science, 1 unit of chemistry with lab, 1 unit of physics with lab, and 4 units of mathematics including algebra II and trigonometry. Incoming students who do not satisfy the admission requirements may enroll in preparatory courses provided by the University. Transfer students require a transfer GPA of 2.25.

Course Descriptions

- Undergraduate
- Graduate

Undergraduate
Course Fees:

Course fees to cover the cost of equipment, materials and supplies are assessed in some engineering courses. Consult the department for a current list of fees associated with each course.

EYE 112 Built Environment: Energy
A substantial component of the world we live in is the built environment – the world that people have invented, designed, built and used. People have seen the natural environment to be sacred, to be a part of, to be enjoyed, to be used, and to be dominated. In recent times it has become recognized that human activities can seriously affect the natural environment. This course focuses on a particular part of the natural environment – energy. Students will learn what energy is, where various forms of energy come from and how they are transformed and used. Forms of energy studied include, for example, fossil, solar, wind, hydro, biomass, and nuclear. The course will address the social, economic, political and environmental issues related to the acquisition, processing and use of energy. Integral to the course are lectures, reading, writing, group activities, laboratory exercises and experiments, and a team project. Students should have very basic algebra skills. This course is not required for transfer students with 24 or more credit hours. Prerequisite: None. Lecture 2 hrs., Lab 2 hrs. Cr 3.

EGN 160 Introduction to Programming: The C Language
The C language has been used extensively for performance intensive tasks required in engineering and has found increased usage in embedded systems. C and its dialects (e.g. C++, C#, Java, Perl, Python) are employed in the vast majority of programming tasks and applications. As such, it is one of the few programming languages that is defined as an ANSI/ISO standard. This course will cover the fundamentals of programming and the C language. No prior knowledge of C is required. This is a 4-credit course and includes a laboratory component. Engineering students may use this course to satisfy the Computer Programming requirement. Prerequisite: None. Lecture 3 hrs., Lab 2 hrs. Cr 4.

EGN 181 Engineering Tools: Mathematica
An introduction to Mathematica as a general-purpose computational and visualization tool. Topics covered include symbolic and numerical computations, graphics and visualization, and basics of the Mathematica programming language. Students will use Mathematica in several hands-on exercises to solve typical computational problems. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 182 Engineering Tools: SolidWorks
An introduction to SolidWorks and its use as a design tool for engineering. Students will use hands-on labs to create three dimensional solid models together with their orthographic views and convert them to computer design files. Students will learn the basics of building parts, dimensioning, tolerances, manufacturing drawings, assemblies, assembly drawings, and bills of material. They learn best practices, essential parametric sketching techniques, and time-saving shortcuts for making three dimensional parts and assemblies. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 183 Engineering Tools: LabView
An introduction to LabView and its use as a GUI programming tool for automated data acquisition, computer-instrument interfacing and control, and data processing. Students will learn the basics of LabView programming and use it in hands-on lab exercises to gain enough experience to start their own data acquisition and measurement project. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 184 Engineering Tools: Industrial Power
An introduction to hydraulics, pneumatics, and programmable logic controllers (PLCs). Students will work with input and output components and learn the basics of PLC programming and downloading. During these hands-on lab exercises, Allen Bradley PLCs will be interfaced and control pneumatic power systems. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 185 Engineering Tools
To be determined. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 186 Engineering Tools: MATLAB
An introduction to the MATLAB and Simulink environments. Topics include basic calculations, variables, arrays and matrix operations, solution of linear algebraic equations, graphs, mesh and surface plots, basic programming in MATLAB, MATLAB functions, mfiles, calculus with MATLAB, Simulink, rational and logic operators, solution of nonlinear algebraic equations, case studies and applications. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 187 Engineering Tools: PSpice
An introduction to PSpice and its use as a GUI schematics entry tool for circuit simulation, including DC, small signal AC, sinusoidal and transient analysis. Students will learn the basics of PSpice and use it in hands-on lab exercises to gain enough experience to draw, simulate and do virtual testing of their circuit designs. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 188 Engineering Tools: Materials Processing
An introduction to material processing operations. Topics include safety considerations, casting and metal forming techniques, material selection, material removal technology; lathes, milling machines, saws, drills, tool and parameter selection. Materials joining technology, welding, brazing, soldering. Heat treatment and metallographic examination. Prerequisite: None. Lecture 1 hr., Lab 1 hr. Cr 1.

EGN 198 Introductory Topics in Engineering
Topics in engineering at the introductory (freshman) level not regularly covered in other courses. The content can be varied to suit current needs. The course may, with advisor permission, be taken more than once. Consult the Department for current offerings and prerequisites. Prerequisite: Varied. Cr 1-4.

**EGN 210 Technical Writing**
A basic technical writing course that strengthens critical thinking, collaboration, and communication skills. Study includes document purpose, situation analysis, style, format and production of reports, proposals, instructions, procedures, technical descriptions, forms, letters, memos, and visual aids, as well as digital and virtual communication. Cross-listed with ITP 210. Prerequisite: ENG 100. Lecture 3 hrs. Cr 3.

**EGN 248 Introduction to Differential Equations and Linear Algebra**
Introduction to linear algebra and differential equations for engineering and science students. Standard methods for solving differential equations as they arise in engineering and science, linear algebra concepts needed to solve linear algebraic systems and linear systems of differential equations, and computational skills in matrix theory needed in computational linear algebra. Topics will include matrix algebra, determinants, linear independence, linear systems, linear transformations, eigenvalues and eigenvectors, vector spaces, first-order ODEs, higher-order linear ODEs, linear systems of ODEs, Laplace transform, and mathematical modeling and numerical methods. May be replaced by MAT 295 and MAT 350. Prerequisite: MAT 153. Lecture 4 hrs. Cr 4.

**EGN 260 Materials Science for Engineers**
Concepts and relationships between structure, composition, and thermal, optical, magnetic, electrical and mechanical properties of technologically important materials. Replaces EGN 362 and ELE 262. Prerequisites: CHY 113, MAT 153, PHY 123. Lecture 3 hrs. Cr 3.

**EGN 298 Intermediate Topics in Engineering**
Topics in engineering at the intermediate (sophomore) level not regularly covered in other courses. The content can be varied to suit current needs. The course may, with advisor permission, be taken more than once. Consult the Department for current offerings and prerequisites. Prerequisite: Varied. Cr 1-4.

**EGN 301 Junior Design Project and the Engineering Profession**
The fundamental mission of engineering is design. Students, working in teams, learn the fundamentals of developing a specific problem statement, flowcharting, researching, project management, and design actualization, incorporating appropriate engineering standards and multiple realistic constraints. Professional issues such as ethics, intellectual property, interview skills, and resume preparation are explored. The student is challenged to consider the work of the engineer in the broader context of societal, personal, and professional responsibility. Prerequisite: Advisor permission, graduating in 3 semesters. Lecture 3 hrs. Cr 3.

**EGN 304 Engineering Economics**
Introduction to making economic decisions, supply, demand and equilibrium in economics, ethical considerations and ethical dilemmas, Pareto efficiency, investment and cost analysis, time value of money, cash flow, the present value of a cash flow, rate of return of a project, cost-benefit study, breakeven analysis, evaluation of alternatives under budget constraint, sensitivity analysis of economic decisions with respect to changes in economic factors, expected value and economic decision-making under uncertainty, taxes, subsidies and rationing defender challenger problem and replacement analysis, inflation, computer-aided engineering economics using spreadsheets. Prerequisite: MAT 152. Lecture 3 hrs. Cr 3.

**EGN 317 Introduction to Robotics**
Kinematic modeling of serial manipulators. Trajectory, path and motion planning. Actuators and sensors, artificial intelligence, and programming of robotic devices. Examples of multiple platforms in the Robotics and Intelligence Systems Laboratory. Prerequisites: EGN 160 or COS 160, EGN 248. Lecture 3 hrs, Lab 1 hr. Cr 3.

**EGN 325 Control Systems**
Laplace transform, transfer function, modeling control systems by block diagrams, transient and steady-state responses of SISO systems in time domain, error analysis, frequency-response analysis using Bode and Nyquist diagrams, root-locus and Routh’s stability methods, analysis and design of control systems using root-locus analysis, operational amplifiers, compensation and design of feedback control systems using lead-lag compensators and PID controllers, state space method for analysis of MIMO systems. Prerequisites: EGN 248, ELE 217. Lecture 3 hrs. Cr 3.

**EGN 329 Electromechanical and Control Systems Laboratory**
Exploration of theory and applications of electromechanical and control systems in the laboratory. Prerequisites: ELE 323, ELE 219. Lab 2 hrs. Cr 1.

**EGN 368 Advanced Engineering Materials**
Properties of conductive, dielectric, polar, magnetic, and other technologically important materials with a view toward understanding their behavior and application in electronic devices. Measurement techniques and production technology will be considered. Part of the course will deal with reading and interpreting published articles in technical journals. Prerequisite: EGN 260. Lecture 3 hrs. Cr 3.

**EGN 394 Engineering Internship**
Work experience in 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. Prerequisite: Completion of all sophomore engineering classes in the respective major, instructor permission. Project. Cr 1-3.
EGN 402 Senior Design Project
Design and implementation of a device or system to perform an engineering function. May be done individually or in small groups, but the contribution is evaluated on an individual basis. Project outcomes include an oral presentation, a demonstration of the device or system, and a final report. The final report must contain a description of the engineering standards that were investigated and/or applied and how the realistic constraints were observed. Prerequisites: EGN 301, the Core Curriculum requirement of Ethical Inquiry, Social Responsibility, and Citizenship, and instructor permission. Project. Cr 3.

EGN 403 Advanced Design Project
In-depth design and implementation of a device or system to perform an engineering function, or an engineering research project. May be done individually or in small groups, but the contribution is evaluated on an individual basis. Prerequisites: EGN 402 with a grade of B or better, and instructor permission. Project. Cr 3.

EGN 417 Robot Modeling

EGN 418 Robot Intelligence
Motion control, trajectory and path planning, actuators and sensors, artificial intelligence, and programming of robotic devices. Case study of multiple platforms in the Robotics and Intelligence Systems Laboratory. Compliments EGN 417. Prerequisites: ELE 217, EGN 160 or COS 160. Lecture 3 hrs., Lab. 1 hr. Cr 3.

EGN 446 Micro Electromechanical Systems
Topics include microfabrication, principles of electromechanical energy conversion and transduction, sensors and actuators, materials used for MEMS and their thermal, electrical, and mechanical properties. Standard MEMS fabrication processes and MEMS design. Prerequisites: EGN 260, ELE 217, EGN 248. Lecture 3 hrs., Lab. 1 hr. Cr 3.

EGN 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. Prerequisites: Instructor permission. Project. Cr 1-3.

EGN 498 Advanced Topics in Engineering
Topics in engineering at the advanced (junior or senior) level not regularly covered in other courses. The content can be varied to suit current needs. The course may, with advisor permission, be taken more than once. Consult the Department for current offerings and prerequisites. Prerequisite: Varied. 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). Prerequisites: None. Lecture 3 hrs, Lab 2 hrs. Cr 4.

ELE 216 Circuits I: Steady-State Analysis
An examination of fundamental circuit laws and theorems, network analysis, physical properties and modeling of resistors, inductors, and capacitors, review of engineering standards applicable to circuits and components. Sinusoidal steady-state operation: phasors, and impedance. Frequency domain analysis, transfer functions, poles and zeros, frequency response, and basic filtering. Prerequisites: MAT 153, PHY 123. Lecture 3 hrs. Cr 3.

ELE 217 Circuits II: System Dynamics

ELE 219 Circuits Laboratory
Exploration of theory and applications of circuits in the laboratory. Co-Prerequisite: ELE 217. Lab 2 hrs. Cr 1.

ELE 271 Microprocessor Systems

ELE 314 Linear Signals and Systems
Introduction to the theory of linear signals and systems. Linear time-invariant system properties and representations; differential and difference equations; convolution; Fourier analysis; Laplace and Z transforms. Selected topics in sampling, filter design, digital signal processing, and modulation. Prerequisites: EGN 248, ELE 217. Lecture 3 hrs. Cr 3.
ELE 323 Electromechanical Energy Conversion

ELE 327 Energy and Power Systems
Energy sources for power generation. Polyphase and HVDC systems, power transformers, transmission lines, power flows, simulation tools for power system analysis and design. Prerequisites: EGN 248, ELE 323. Lecture 3 hrs., Lab 1 hr. Cr 3.

ELE 342 Electronics I: Devices and Circuits

ELE 343 Electronics II: Electronic Design
Analysis and design of electronic circuits with BJTs, FETs and OpAmps for applications in signal generation, amplification, waveshaping, and power control. Topics include differential, multi-stage, linear and power amplifiers; real operational amplifiers and OpAmp applications; design for frequency response, active filters; feedback, stability and oscillators. Simulation and design verification with SPICE. Replaces ELE 346. Prerequisites: ELE 342. Lecture 3 hrs, Lab 2 hrs. 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 and other devices. Prerequisites: ELE 217, EGN 248, MAT 252. Lecture 3 hrs. Cr 3.

ELE 363 Solid State Electronic Devices
Theory of selected solid state electronic devices and their fabrication. The devices studied include advanced bipolar, CMOS, and optoelectronic devices. Device characterization, modeling and simulation. An occasional laboratory period may be substituted for equivalent class time. Electrical engineering elective. Prerequisite: ELE 342. Lecture 3 hrs., Lab. 1 hr. Cr 3.

ELE 364 Microelectronic Fabrication

ELE 367 Optoelectronics
Properties and applications of optoelectronic devices and systems. Topics include radiation sources (LEDs and semiconductor lasers), photo detectors and detector circuits, solar cells, fiber optics, and electro-optical system components. Electrical engineering elective. Prerequisite: ELE 342. Lecture 3 hrs., Lab. 1 hr. Cr 3.

ELE 412 Power Electronics
Introduction to power electronics and power semiconductor devices. Analysis, performance characterization, and design of power electronics converters such as: rectifiers, DC choppers, AC voltage controllers, and single-phase inverters. Operation of DC motor drives. Electrical engineering elective. Prerequisite: ELE 343. Lecture 3 hrs. Cr 3.

ELE 442 Digital VLSI Circuits and Design
Principles of internal circuit and layout design of digital VLSI circuits. CMOS technology is emphasized. Topics include NMOS and CMOS processes, device physics and SPICE models, logic circuits, electrical and physical design of logic gates, dynamic CMOS circuits, memory, chip layout principles, parasitics, and performance estimation. Simulation, layout, and electronic design automation tools are demonstrated and used. Electrical engineering elective. Prerequisites: ELE 172, ELE 343. Lecture 3 hrs., Lab. 1 hr. Cr 3.

ELE 444 Analog Integrated Circuits and Design
Principles of internal circuit operation and design of analog integrated circuits with emphasis on CMOS technology. Topics include analog CMOS processes, devices and device models, bias and reference sources, differential and high gain amplifiers, OTAs and operational amplifiers, power stages, frequency response, feedback, stability and internal compensation applied to the design of CMOS operational amplifiers and other CMOS analog integrated circuits. SPICE simulation, layout and electronic design automation tools are demonstrated and used in homework and design projects. Prerequisites: ELE 343. Lecture 3 hrs., Lab 1 hr. Cr 3.
ELE 445 Special Topics in CMOS Integrated Circuit Design
Special topics such as high performance operational amplifiers, silicon integrated sensors and sensor interface circuits, switched capacitor circuits, oscillators and integrated waveform generators, phase-locked-loop circuits, memory, etc., are covered with emphasis on three chosen topics with instructor guided projects leading to chip level design of these circuits. SPICE simulation verifications, layout and electronic design automation tools are used extensively. Electrical engineering elective. Prerequisite: ELE 343. Lecture 3 hrs., Lab. 1 hr. Cr 3.

ELE 483 Communications Engineering

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, Chebychev). Quantization and finite-precision effects. DSP hardware. Computers will be used to design and realize various signal processors. Prerequisites: EGN 160 or COS 160, ELE 314. Lecture 3 hrs. Cr 3.

ELE 487 Digital Image Processing
The theory and practice of digital processing of images by computer. Introduction to two-dimensional signal processing theory: sampling, transforms, and filters. Image acquisition and representation; enhancement methods; image coding; image analysis; and image processing hardware. Electrical engineering elective. Prerequisites: ELE 314, EGN 160 or COS 160. Lecture 3 hrs., Lab. 1 hr. Cr 3.

ELE 489 Analog and Digital Signals Laboratory

MEE 150 Applied Mechanics: Statics
Equilibrium of particles, moment of a force, couple, equilibrium of rigid bodies, centroid and center of mass, analyzing trusses, frames and machines, shear force and bending moment in beams, dry friction, wedges, area moment of inertia, parallel axis theorem, mass moment of inertia, Mohr’s circle for moments of inertia, method of virtual work. Prerequisites: MAT 152, PHY 121. Lecture 3 hrs. Cr 3.

MEE 230 Thermodynamics I: Laws and Properties
Basic concepts and definitions; thermodynamic properties of gases, vapors, and gas-vapor mixtures; energy and energy transformations; the first and second Laws of thermodynamics; first and second law applied to systems and control volumes; thermodynamic properties of systems. Prerequisites: MAT 153, PHY 121. Lecture 3 hrs. Cr 3.

MEE 251 Strength of Materials
Normal and shear stress and strain in structural members under axial, torsion, bending and transverse loadings, calculation of combined stresses, transformation of stress and principal values of stress and strain, deflection of beams. Prerequisites: MAT 153, MEE 150. Lecture 3 hrs. Cr 3.

MEE 259 Statics and Strength of Materials Laboratory

MEE 270 Applied Mechanics: Dynamics

MEE 331 Thermodynamics II: Flows and Cycles
Thermodynamic properties of system; energy system analysis including power cycles, and refrigeration systems; energy availability; general thermodynamic relations, thermodynamics of mixtures; Introduction to chemical thermodynamics; thermodynamics of fluid flow; design and optimization of thermal systems. Prerequisites: MEE 230. Lecture 3 hrs. Cr 3.

MEE 339 Thermodynamics Laboratory
Exploration of theory and applications of thermodynamics in the laboratory. Prerequisites: None. Co-requisite: MEE 331. Lab 2 hrs. Cr 1.

MEE 352 Analysis and Design of Composite Structures
Advantages and limitations of composite materials, fibers and matrices, anisotropic, orthotropic and transversely isotropic materials, fabrication processes of composites, axial deformation and bending of sandwich beams and reinforced concrete, elastic behavior and strength of unidirectional lamina, elastic constants of a lamina along an arbitrary direction, elastic behavior of multidirectional laminate, failure criteria of laminates, joining and assembly, case studies, mechanical test methods, experimental determination of engineering constants of composites, computer-aided analysis and design of composite structures. Prerequisites: EGN 248, MEE 251. Lecture 3 hrs, Lab 1 hr. Cr 3.

MEE 360 Fluid Mechanics
Fluid statics, fluid kinematics, Bernoulli equation, energy equation, viscosity, control volume analysis, differential analysis, dimensional analysis, laminar flow and turbulent flow, internal flow, external flow, boundary layers, lift and drag, numerical methods, computational fluid dynamics, turbomachinery. Prerequisites: EGN 248, MEE 270, MAT 252. Lecture 3 hrs. Cr 3.

MEE 361 Physical Metallurgy
Introduction to the current state of metallurgical technology. It builds on basic principles, particularly crystal structure and phase equilibria, to introduce students to contemporary metallurgical literature. Topics such as defect structures and the effect of heat treatment are introduced in a “just in time” fashion. Prerequisites: EGN 260. Lecture 3 hrs. Cr 3.

MEE 372 Computer-Aided Design of Machine Elements
Elements of mechanical engineering design, introduction to computer aided drafting, stress analysis, deflection and stiffness analysis, Castigliano’s theorem, Euler buckling, static failure criteria, fatigue failure criteria, design of shafts and bearings, limits and fits, critical speed of shafts, detachable and permanent joints and springs. Design is performed by available formulas and standards as well as computer aided design by simulation software. Includes a student design project. Prerequisites: MEE 251. Lecture 3 hrs, Lab 2 hrs. Cr 4.

MEE 373 Design of Machines and Mechanisms
Mobility and degrees of freedom in mechanisms, review of kinematics, instant centers, cam and follower design, gears, gear trains, interference and undercutting, synthesis of linkages, static and dynamic force analysis, measuring mass moment of inertia, free and forced vibrations, dynamics of reciprocating engines, static and dynamic balancing, Euler’s equations of motions, rolling-contact bearings, journal bearings, flywheels, gyroscopes, governors, clutches and brakes. Design is performed by available formulas and standards as well as computer aided design by simulation software. Includes a student design project. Prerequisites: MEE 270, EGN 248, EGN 160 or COS 160, MAT 252. Lecture 3 hrs, Lab 2 hrs. Cr 4.

MEE 374 Theory and Applications of Vibrations
Free undamped and damped vibrations of one degree of freedom (DOF) systems, forced vibrations of one DOF systems with harmonic and non-harmonic excitations, resonance, free vibrations of multi DOF systems, mode shapes, forced vibrations of multi DOF systems and dynamic vibration absorber. Prerequisites: EGN 248, ELE 217. Lecture 3 hrs. Cr 3.

MEE 375 Engineering Acoustics
Vibrating systems, acoustic wave equation, waves in solids and fluid media, reflection and transmission at interfaces, absorptions and dispersion, Green’s function, waveguides, resonators and filters, noise, ultrasonics, nondestructive evaluation, acoustical imaging, selected topics in ocean acoustics, noise control, environmental and architectural acoustics. Prerequisites: EGN 248, ELE 217. Lecture 3 hrs. Cr 3.

MEE 379 Dynamics and Vibrations Laboratory

MEE 432 Heat Transfer

MEE 435 Advanced Thermal Systems
Apply the principles of thermodynamics, fluid mechanics, and heat transfer to engineering systems. These systems include but are not limited to power generation, heating ventilating and air conditioning (HVAC), internal combustion engines, manufacturing processes. The concept of energy efficiency will be emphasized. Mechanical engineering elective. Prerequisites: MEE 366, MAT 350. Lecture 3 hrs. Cr 3.

MEE 439 Fluid Mechanics and Heat Transfer Laboratory

Graduate

EGN 517 Introduction to Robotics
This course covers the contents of EGN 317 Introduction to Robotics, plus additional content at the graduate level. It may substitute EGN 317 for undergraduate credit, and be applied toward degree requirements of a graduate program. Prerequisites: EGN 160 or COS 160, EGN 248. Lecture 3 hrs, Lab 1 hr. Cr 3.

EGN 546 Micro Electromechanical Systems
This course covers the contents of EGN 446 Micro Electromechanical Systems, plus additional content at the graduate level. It may substitute EGN 446 for undergraduate credit, and be applied toward degree requirements of a graduate program. Prerequisites: EGN 260, ELE 217, EGN 248. Lecture 3 hrs, Lab 1 hr. Cr 3.
EGN 598 Graduate Topics in Engineering
Topics in engineering at the graduate level not regularly covered in other courses. The content can be varied to suit current needs. The course may, with advisor permission, be taken more than once. Consult the Department for current offerings and prerequisites. Prerequisites: Varied. Cr Varied.

EGN 602 Graduate Design Project
Design and implementation of a device or system to perform an engineering function, or an engineering research project at the graduate level. May be done individually or in small groups, but the contribution is evaluated on an individual basis. This course is cross-listed with MBA 698 Practicum and is used to fulfill the practicum requirement of the Masters in Business Administration (MBA). Prerequisites: EGN 402 or equivalent, MBA 611, MBA 660, MBA 674, and advisor permission. Weekly meetings (MBA 698) and Project. Cr 3.

ELE 527 Energy and Power Systems
This course covers the contents of ELE 327 Energy and Power Systems, plus additional content at the graduate level. It may substitute ELE 327 for undergraduate credit, and be applied toward degree requirements of a graduate program. Prerequisites: EGN 248, ELE 323. Lecture 3 hrs. Cr 3.

ELE 544 Analog Integrated Circuits and Design
This course covers the contents of ELE 444 Analog Integrated Circuits and Design, plus additional content at the graduate level. It may substitute ELE 444 for undergraduate credit, and be applied toward degree requirements of a graduate program. Prerequisites: ELE 343. Lecture 3 hrs, Lab 1 hr. Cr 3.

MEE 552 Analysis and Design of Composite Structures
This course covers the contents of MEE 352 Analysis and Design of Composite Structures, plus additional content at the graduate level. It may substitute MEE 352 for undergraduate credit, and be applied toward degree requirements of a graduate program. Prerequisites: EGN 248, MEE 251. Lecture 3 hrs, Lab 1 hr. Cr 3.

MEE 561 Physical Metallurgy
This course covers the contents of MEE 361 Physical Metallurgy, plus additional content at the graduate level. It may substitute MEE 361 for undergraduate credit, and be applied toward degree requirements of a graduate program. Prerequisites: EGN 260. Lecture 3 hrs. Cr 3.

MEE 575 Engineering Acoustics
This course covers the contents of MEE 375 Engineering Acoustics, plus additional content at the graduate level. It may substitute MEE 375 for undergraduate credit, and be applied toward degree requirements of a graduate program. Prerequisites: EGN 248, ELE 217. Lecture 3 hrs., Lab 1 hr. Cr 3.
Environmental Science and Policy Overview

Chair of the Department: Robert Sanford

Professors: Sanford, Wagner; Assistant Professor: Staples; Associate Research Professor: Wilson; Assistant Research Professor: Martinez; Adjunct Professor: Masi; Adjunct Assistant Research Professor: Willis

The Department of Environmental Science and Policy offers two degrees: a B.A. in environmental planning and policy and a B.S. in environmental science. Each degree prepares students for a variety of professional roles in the environmental fields and encourages students to pursue graduate academic and professional degrees and professional certifications. Graduates find employment in many environmental settings, including federal, state, and local government, environmental consulting and engineering, environmental education and teaching, private industry ranging from healthcare to semiconductor manufacturing, applied research, environmental advocacy, and community planning.

All students in the Department of Environmental Science and Policy complete a core set of courses and laboratory training in a broad range of perspectives and skills including field methods, environmental science, ecology, chemistry, communication, environmental regulations, impact assessment, and research methods. Additionally, the program requires students to specialize in an area of choice. Students choosing the environmental science option will study topics such as forest, wetland and plant ecology, energy management, or soil and water quality. Students choosing the environmental planning and policy option will study topics such as natural resource policy, pollution, solid waste, or energy policy. Most students also pursue a minor to complement their skill-set, such as environmental sustainability, applied energy, chemistry, economics, or biology. Near the end of their program, all students apply their knowledge in a professional setting with a required internship.

A core interdisciplinary faculty representing all of these areas is on-hand to work with and guide students who are encouraged to participate in research with Departmental faculty. Faculty stress problem-based service learning by examining and solving local environmental problems.

Admission Requirements

Admission to the major is competitive, usually requiring grades equivalent to a B average or higher and completion of three high school laboratory science courses and advanced algebra. Transfer students and USM students wishing to change majors must meet the admission and coursework requirements for the major.

Accelerated Graduate Pathway - Environmental Planning and Policy to MPPM

The undergraduate B.A. in Environmental Planning and Policy program in the College of Science, Technology, and Health and the graduate Master's in Policy, Planning, and Management program in the Muskie School of Public Service offer an Accelerated Graduate degree pathway for prospective students. The close disciplinary connections between these programs and their focus on the relationship between human populations and their natural and built environment, sustainability, community development, environmental and natural resource policy, and community planning allow for a unique undergraduate-graduate educational opportunity.

- Requirements
- Admission Information

Requirements

Courses Available to Pathway Students

Students in their junior year in the Environmental Planning and Policy program who have completed at least 84 undergraduate credits will be eligible to enroll in the following courses at the graduate level:

**Group A: Environmental Science and Policy Courses**

Graduate credit is granted upon satisfactory completion of the additional work as assigned by the course instructor and achieving a grade of B or higher.

- ESP 326/526 Environmental Economics
- ESP 327/527 Natural Resource Economics
Group B: Policy, Planning, and Management Courses
The following MPPM courses may be taken without prerequisite:

PPM 521 Social Justice Theory and Public Policy
PPM 610 Governance, Democracy, and Policymaking
PPM 612 Sustainable Communities
PPM 615 Organizational Theory, Management, and Leadership
PPM 640 Public Financing and Budgeting

The following MPPM courses may be taken with the indicated prerequisite:

PPM 601 Quantitative Methods for Policy, Planning, and Management
Prerequisite: MAT 120 Introduction to Statistics

PPM 611 Economics for Policy, Planning, and Management
Prerequisite: ECO 102 Introduction to Microeconomics

Requirements:

- Complete all requirements for the BA in Environmental Planning and Policy as detailed in the undergraduate catalog.
- Up to 18 credits from among the cross-listed and approved ESP-MPPM courses listed can be taken by the senior year. Students then enter the MPPM program with 18 credits of requirements remaining, allowing completion of the MPPM degree in one additional year of full time study.

Admission Information

In order to gain full admission into the Master of Arts in Policy, Planning and Management, a student must meet the following admission standards:

- Choose a major in Geography-Anthropology, Environmental Science and Policy, or Economics
- Earn at least a B for all courses in these majors, as well as in any 500-level graduate courses taken at the undergraduate level
- Earn a cumulative GPA of 3.0 at time of matriculation into graduate program.
- Complete the following courses with grades of B or better: a course in Statistics that meets USM’s Quantitative Reasoning Core Requirement, a course in Microeconomics (or a course equivalent to ECO 102 or higher).

How to Apply:

- On the Common App, select your preferred choice of major, making sure it is one that qualifies for the Accelerated Graduate Pathway you’re choosing; then you will see the following option: “Please indicate your interest in one of the following accelerated pathway options at the University of Southern Maine” from which you can select a Pathway.
- In the University of Maine System application, select your First Choice Major, making sure it is one that qualifies for the Accelerated Graduate Pathway you’re choosing; then you will see the following drop-down menu: Accelerated Graduate Degree Pathway (First Choice Major), from which you can select a Pathway.
- If you are a Transfer or Continuing Student, please contact the University of Southern Maine Advising Office to meet with an academic advisor who can review your previous coursework and determine your eligibility for entering an Accelerated Graduate Pathway. Please call (207) 780-4040 or email: usm.advising@maine.edu

BA in Environmental Planning and Policy

Description
The Department of Environmental Science and Policy offers a Bachelor of Arts (B.A.) degree in Environmental Planning and Policy. Capability in these two disciplines is built upon ESP's basic environmental science core courses. The degree is designed to prepare students for graduate school and careers in federal, state, and local government; the private sector; nonprofit organizations; and citizen advocacy groups. Many graduates have immediately entered professions in landscape design, regulatory compliance, land-use or community planning, urban renewal, environmental consulting, education, and as environmental technicians.

The faculty seek to educate individuals who make a difference by contributing to solving environmental problems, making public and private institutions more responsive to social and economic needs of communities, and by moving toward a more sustainable society. The curriculum emphasizes application as well as theory by focusing on real problems and projects affecting the region. The opportunity to gain practical planning and policy experience is also provided to students through participation in field-based courses and an internship.

The environmental planning aspect of the degree is intended to introduce students to the foundations of community and natural resource planning. Through a series of core courses, students examine the spatial and non-spatial aspects of environmental problems. The environmental policy aspect trains students on policy development, formulation and implementation, through an in-depth examination of policy science, assessment, environmental impact analysis, and environmental economics. Students can also explore a particular topic of interest such as pollution, natural resources management, international policy, or water resources.

ESP offers an accelerated undergraduate-graduate degree pathway for students in the BA program. Students can combine the senior year with the first year of graduate work on a Master's in Policy, Planning, and Management (MPPM) in USM's Muskie School of Public Service.

**Program Requirements**

The minimum number of credits required for the major is 66, plus the University's Core curriculum. Some departmental major requirements may overlap with the Core curriculum, allowing students to double-count and be efficient in course selection. A student must achieve at least a 2.0 grade point average and must earn at least a C- in each course applied toward completion of the major.

Required courses for all majors in the department:
- ESP 101 Fundamentals of Environmental Science
- ESP 102 Fundamentals of Environmental Science Lab
- ESP 125 Introduction to Environmental Ecology
- ESP 126 Introduction to Environmental Ecology Lab
- ESP 150 Field Immersion (a long weekend camping course)
- ESP 197 Research Skills Lab
- ESP 203 Environmental Communication
- ESP 207 Atmosphere: Science, Climate, and Change
- ESP 280 Research and Analytical Methods
- ESP 340 Environmental Regulations
- ESP 400 Internship (between junior and senior year)
- ESP 401 Environmental Impact Assessment and Lab (capstone)

Choose one tools course; suggested courses include:
- GEO 108 Introduction to ArcGIS
- GEO 308 GIS Applications I
- ITP 210/EGN 210 Technical Writing
- MAT 220 Statistics for the Biological Sciences

Required courses specific to students in the BA in Environmental Planning and Policy:
- ESP 220 Introduction to Environmental Policy
- ESP 305 Community Planning Workshop
- ESP 375 Environmental Risk Assessment and Management
- ESP 417 Site Planning and Assessment
- ESP 421 Natural Resource Policy
- CHY 1XX Chemistry Lecture
- MAT 108 College Algebra
- MAT 120 Introduction to Statistics
- GEO 209 Land Use Planning
  or ESP 200 Environmental Planning
- ESP 326 Environmental Economics
  or ESP 327 Natural Resource Economics

Electives: Choose two environmental science classes 200-level or higher.
BS in Environmental Science

Description

Environmental science students receive a broad range of environmental courses. They may choose to focus on water resources, energy, or applied ecology. Students studying water resources focus on the flow and quality of water in various environments including streams, lakes, aquifers, and soils, and students receive comprehensive training in the biology, chemistry, and ecology of soils and water bodies. The focus is on human-influenced and natural processes affecting soil quality and water quality. Courses emphasize watershed and groundwater hydrology and hydrogeology, water quality assessment and control, soil and water conservation, bioremediation and phytoremediation, and watershed management and planning. Students are often involved in faculty research programs and present results of their research at local and national conferences.

For students interested in becoming certified to teach science in Maine, Secondary Teacher Education is offered as part of the BS in Environmental Science.

Students who focus on energy take courses in energy efficiency, renewable energy, and energy systems, in addition to their ecology and environmental courses.

Applied Ecology is the study of interrelationships between organisms and their environment, within the context of seeking to understand and mitigate the impacts of human activities on those systems. Students are provided with the core science background necessary to conduct environmental field and laboratory research. Students then gain familiarity with specific ecological systems, concepts, and methods through courses such as Water Quality Assessment, Forest Ecology, Wetlands Ecology, Field Methods, Environmental Entomology, and Limnology.

ESP courses tend to be laboratory-intensive and quantitative, with a major goal being the acquisition of advanced skills in utilizing analytical tools such as statistical software, mapping applications, and geographic information systems (GIS). This combination of a strong science core with applied environmental technologies allows an Environmental Science graduate to pursue either graduate study in the sciences or immediate entry-level employment with an environmental engineering firm, government agency or non-governmental organization.

Program Requirements

The minimum number of credits required for the major is 72, plus the University's Core curriculum. Some departmental major requirements may overlap with the Core curriculum, allowing students to double-count and be efficient in course selection. A student must achieve at least a 2.0 grade point average and must earn at least a C- in each course applied toward completion of the major.

Required courses for all majors in the department:

- ESP 101 Fundamentals of Environmental Science
- ESP 102 Fundamentals of Environmental Science Lab
- ESP 125 Introduction to Environmental Ecology
- ESP 126 Introduction to Environmental Ecology Lab
- ESP 150 Field Immersion (a long weekend camping course)
- ESP 197 Research Skills Lab
- ESP 203 Environmental Communication
- ESP 207 Atmosphere: Science, Climate, and Change
- ESP 280 Research and Analytical Methods
- ESP 340 Environmental Regulations
- ESP 400 Internship (between junior and senior year)
- ESP 401 Environmental Impact Assessment and Lab (capstone)

Choose one tools course; suggested courses include:

- GEO 108 Introduction to ArcGIS
- GEO 308 GIS Applications I
- ITP 210/EGN 210 Technical Writing
- MAT 120 Introduction to Statistics
- MAT 220 Statistics for the Biological Sciences

Required courses specific to students in the BS in Environmental Science:

- CHY 113 Principles of Chemistry I
- CHY 114 Laboratory Techniques I
Recommended Course Sequence

Students should begin with ESP 101 and 102. Advanced environmental science courses may also have biology, chemistry, and mathematics prerequisites.

BS in Environmental Science - Secondary Teacher Education

Description

This track is for students who want to become certified in Maine to teach grades 7-12 physical sciences, life science, or both areas. Interested students should see the secondary education environmental science coordinator upon acceptance at USM, matriculation, upon choosing an environmental science major, or as early in their time at USM as possible. The curriculum for this concentration is designed to provide prospective 7-12 teachers with a strong academic foundation in physical sciences or life science along with a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences. It has four components: USM Core curriculum, an environmental science major, professional education courses, and electives totaling 120 credit hours for the degree.

Program Requirements

USM Core Curriculum (including pre-internship education courses):

- EYE 108 - Culture, Identity, and Education (recommended) (3 cr.)
- EDU 100 - Exploring Teaching (recommended) (3 cr.)
- College Writing - ENG 100 (3 cr.)
- Cultural Interpretation (3 cr.)
- Quantitative Reasoning - MAT 152 Calculus A (4 cr.)
- Creative Expression (3 cr.)
- Socio-Cultural Analysis - HRD 200 Multicultural Human Development (3 cr.)
- Science Exploration - ESP 101/102 Fundamentals of Environmental Science w/lab (4 cr.)
- Ethics - EDU 310 Purpose of Schooling in a Democracy (3 cr.)
- Cluster - EDU 305 Foundations of Cultural and Linguistic Diversity, SED 335 Students with Exceptionalities in General Education, and SED 420 Multi-tiered Systems of Educational Support (9 cr.)
- Diversity and International met with EDU 305 and EDU 310 respectively

Major Requirements:

Students complete the major requirements for a BS in Environmental Science. The ESP 400 internship requirement may be met by an EDU internship in secondary education. Similarly, the ESP 401 capstone requirement may be met by a STEM or EDU capstone.

Secondary Teacher Education (7-12) Requirements:
Certificate in Applied Energy

Description

The Certificate in Applied Energy is designed for students and professionals in area industry, consulting, government, and non-governmental organizations. The certificate is designed to develop an individual’s skills in applied energy through a combination of laboratory, field work, and advanced analysis in energy efficiency, production, and life cycle assessment.

Program Requirements

The certificate is awarded after the successful completion of the following courses with a minimum grade of C- or better:

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP 275 Energy Use and Societal Adaptation</td>
<td>3</td>
</tr>
<tr>
<td>ESP 308 Global Environmental Problems and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>or ESP 421 Natural Resource Policy</td>
<td></td>
</tr>
<tr>
<td>ESP 311 Energy Efficiency</td>
<td>3</td>
</tr>
<tr>
<td>ESP 313 Renewable Energy</td>
<td>3</td>
</tr>
<tr>
<td>ECO/ESP 326 Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>or ECO/ESP 327 Natural Resource Economics</td>
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</tbody>
</table>

Matriculated students may be interested in applying for an Applied Energy Minor.

Admission Information

Admission is open to matriculated and non-matriculated students. Please contact the Office of Admissions for more information.

Certificate in Environmental Education

Description

The certificate in environmental education is designed for teachers, scientists, public officials, consultants, field naturalists, environmental interpreters, and others having responsibility for educating or informing people about the environment.

Program Requirements

The certificate is awarded after successful completion of 18 credits of coursework with a minimum grade of C- or better. Up to 8 prior credits may be applied toward the certificate program.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
</table>

USM Undergraduate Academic Catalog 2017-18
Choose one

EDU 501 Secondary Science Methods 3
EDU 552 Teaching Science K-8 3
ESP 542 Environmental Science: Concepts and Strategies for Teachers 3
HRD 200 Multicultural Human Development 3

Electives
Choose from ESP offerings to complete the credit requirements 9

Recommended Course Sequence

Students should take courses based on availability. Appropriate substitute courses may be approved by the department.

Admission Information

Admission is open to undergraduates and graduates. Contact the Office of Admissions for more information.

Certificate in Environmental Policy Analysis

Description

The certificate in environmental policy analysis is designed for students and professionals in area industry, consulting, government, and non-governmental organizations. The certificate is designed to develop skills in identifying environmental policy problems, formulating policy solutions, and evaluating policies.

Program Requirements

The certificate is awarded after the successful completion of 18-credit hours of coursework with a minimum grade of C- or better.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ESP 220 Introduction to Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>ESP 340 Environmental Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ESP 375 Environmental Risk Assessment and Management</td>
<td>3</td>
</tr>
<tr>
<td>ESP 421 Natural Resource Policy</td>
<td>3</td>
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</table>

Electives (choose two)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP 203 Environmental Communication</td>
<td>3</td>
</tr>
<tr>
<td>ESP 212 Environmental Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ESP 275 Energy Use and Societal Adaptation</td>
<td>3</td>
</tr>
<tr>
<td>ESP 326 Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ESP 327 Natural Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>ESP 470 Solid Waste Planning &amp; Policy</td>
<td>3</td>
</tr>
<tr>
<td>POS 120 Government and Politics of Maine</td>
<td>3</td>
</tr>
<tr>
<td>POS 361 Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POS 406 Research in the European Union</td>
<td>3</td>
</tr>
</tbody>
</table>
Admission Information

Admission is open to undergraduates and graduates. Please contact the Office of Admissions for more information.

Minor in Applied Energy

Description

The minor in applied energy is designed to develop skills in applied energy through a combination of laboratory, field work, and advanced analysis in energy efficiency, production, assessment, and planning.

Program Requirements

All courses taken to satisfy the requirements for a minor in applied energy must be completed with a grade of C- or better. ESP majors may double-count up to 6 credits of courses used in their major toward the minor. Minimum number of credits required for the minor: 18.

<table>
<thead>
<tr>
<th>Required Courses</th>
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<tbody>
<tr>
<td>ESP 275 Energy Use and Societal Adaptation</td>
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<tr>
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<td>3</td>
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<tr>
<td>or ESP 421 Natural Resource Policy</td>
<td></td>
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<tr>
<td>ESP 311 Energy Efficiency</td>
<td>3</td>
</tr>
<tr>
<td>ESP 313 Renewable Energy</td>
<td>3</td>
</tr>
<tr>
<td>ESP 326 Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>or ESP 327 Natural Resource Economics</td>
<td></td>
</tr>
<tr>
<td>Choose one additional ESP or other department energy-related course approved by a department faculty advisor (e.g., ESP 207)</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor in Environmental Policy

Description

The minor in environmental policy is designed to develop skills in applied policy analysis and formulation through a combination of multidisciplinary coursework.

Program Requirements

All courses taken to satisfy the requirements for a minor in environmental policy must be completed with a grade of C- or better. This minor is not available to students pursuing a BA in Environmental Planning and Policy. Environmental Science majors may double-count up to 9 credits of courses used in their major toward the minor. Minimum number of credits required for the minor: 18.

<table>
<thead>
<tr>
<th>Required Courses</th>
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</thead>
<tbody>
<tr>
<td>ESP 220 Introduction to Environmental Policy</td>
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<td>ESP 326 Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>or ESP 327 Natural Resource Economics</td>
<td></td>
</tr>
<tr>
<td>ESP 340 Environmental Regulations</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Environmental Science

Description

The minor in environmental science, coupled with a science or liberal arts degree, helps prepare a student for entry into the environmental fields or advanced study.

Program Requirements

All courses taken to satisfy the requirements for a minor in environmental science must be completed with a grade of C- or better. This minor is not available to students pursuing a BS in Environmental Science. Environmental Planning and Policy majors may double-count up to 9 credits of courses used in their major toward the minor.

Minimum number of credits of environmental science courses (not courses in environmental planning or policy) required for the minor: 18. Students may transfer up to 4 credits of comparable environmental science courses from other institutions.

All students must complete:

ESP 101 Fundamentals of Environmental Science
ESP 102 Fundamentals of Environmental Science Laboratory
ESP 203 Environmental Communication

and collaborate with a department faculty member to develop an individual course of study.

Recommended Course Sequence

ESP 101 and 102 should be completed first. Some advanced environmental science classes may also have ESP, chemistry, biology, and mathematics prerequisites.

Minor in Environmental Sustainability

Description

We must strive to live in a sustainable relationship with Earth's finite resources. The goal of the environmental sustainability minor is to provide broad, interdisciplinary training related to local and global environmental problems. Students in the environmental sustainability minor examine the scientific, cultural, economic, and policy aspects of sustainability and are provided skills in how to recognize and overcome barriers to achieving sustainability.

Program Requirements

All courses taken to satisfy the requirements for a minor in environmental sustainability must be completed with a grade of C- or better. ESP majors may double-count up to 9 credits of courses used in their major toward the minor. Minimum number of credits required for the minor: 19.

Required Courses

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP 101/102 Fundamentals of Environmental Science and Lab</td>
<td>4</td>
</tr>
</tbody>
</table>
### Course Descriptions

The following is a list of courses offered by the Department of Environmental Science and Policy. Consult the two-year rotation list for the tentative schedule of course offerings over the next two years.

- **Undergraduate**
- **Graduate**

#### Undergraduate

**ESP 101 Fundamentals of Environmental Science**
This Science Exploration course is an examination of the science of environmental problems, processes, and solutions. Students will explore the interrelationships of the natural world, the environment, and impacts from humans. Specific topics will include land, air, and water pollution; biodiversity; global climate change; energy; public health; and sustainability. Prerequisite: successful completion of the University's mathematics readiness requirement. Corequisite: ESP 102. Cr 3.

**ESP 102 Fundamentals of Environmental Science Laboratory**
This Science Exploration laboratory course is designed to provide applied experience with some of the tools and techniques used in environmental science. Students will apply the scientific method to examine a variety of environmental issues using field kits, lab equipment, and computers. Prerequisite: successful completion of the University's mathematics readiness requirement. Corequisite: ESP 101. Cr 1.

**ESP 125 Introduction to Environmental Ecology**
This Science Exploration course is an introduction to the study of interactions between organisms and their environments. Students will explore the basic principles of ecology and systems with emphasis on forests, wildlife, freshwater, marine, and urban habitats. Environmental physiology and evolution will be a central theme throughout the course. Prerequisite: ESP 101/102 or BIO 105/106. Corequisite: ESP 126. Cr 3.

**ESP 126 Introduction to Environmental Ecology Laboratory**
This Science Exploration laboratory course surveys the identification, measurement, and function of various ecosystems. A focus will be on the impact of human activity on ecosystems. Prerequisite: ESP 101/102 or BIO 105/106. Corequisite: ESP 125. Cr 1.

**ESP 131 Northern Forest Canoe Trail**
This field course, cross-listed as an Entry Year Experience (EYE) core, is self-guided and self-paced. Participants spend the equivalent of ten days of canoe or kayak trips exploring northern New England waterways. They set their own schedule, provide periodic on-line check-ins, and submit assignments designed to foster a contemplative experience that builds independent learning skills. The course introduces environmental data gathering and assessment, aspects of environmental management, and critical thinking about personal, social, and ecological implications of the Northern Forest Canoe Trail and adjacent watersheds. This course is suitable for military veterans, advanced high school students, non-traditional learners, and anyone else who wants an independent learning experience. Cr 3.

**ESP 150 Environmental Science Field Immersion Session**
This field immersion session is designed to teach basic environmental science field skills and build community in a long weekend format. The
course includes components on forest, land use, aquatic, wildlife, and human systems. Basic orienteering and map reading, topographical surveying, GPS operation, and dichotomous key use are emphasized. This course is required for all new majors and transfer students. Students must be present for the entire immersion session. Prerequisite: ESP major/minor or permission of instructor. Cr 3.

ESP 197 Research Skills Lab
This ten-week, lab-style course is designed to develop students' study and research skills to foster academic success as a major in the Department of Environmental Science and Policy. Topics will include literature searching, website evaluation, peer review process, critical thinking, finding articles and books, plagiarism, proper citation, primary and secondary sources, and the writing process. The final project is an annotated bibliography on a selected environmental topic. Cr 1.

ESP 200 Environmental Planning
This course introduces the central concepts of environmental planning theory and practice, including components of rural, regional, and community planning. Concepts and issues studied include planning history and regulations, natural resources inventory, spatial patterns and analysis, zoning techniques, growth management, and planning research. The course meets the Ethical Inquiry core requirement and is a prerequisite for ESP 305 Community Planning Workshop. Prerequisite: ESP 101/102 or permission of instructor. Cr 3.

ESP 203 Environmental Communication
Students study environmental communication to understand the influence of socio-economic, political, and scientific factors on the social construction of environmental problems. Topics include basic communication theory and its application to the social definition of environmental problems and the perception and communication of risk, how communication is used to persuade/dissuade the public regarding environmental problems, and how the environment is used to manipulate consumer behavior. Students also engage in the basics of research applied to environmental communication. Prerequisites: College Writing, ESP 101/102, and ESP 197. Cr 3.

ESP 207 Atmosphere: Science, Climate, and Change
Students will be introduced to the physical and chemical processes active in the earth's atmosphere. Specific topics include atmospheric circulation, atmospheric chemistry, climate patterns, storms, natural atmospheric change in recent geologic time, human-induced atmospheric change, and atmospheric pollution. Prerequisite: CHY 1XX. Cr 3.

ESP 210/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.

ESP 212/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.

ESP 220 Introduction to Environmental Policy
This course is an intensive introduction to the field of applied environmental policy within the framework of the rational policy process. The course will focus on the policy process, including environmental problem identification, root cause analysis, solution analysis, analysis and use of environmental policy tools, decision making, and policy implementation. Particular emphasis is given to air and water pollution and solid waste management. Prerequisite: ESP 203. Cr 3.

ESP 250 Soils and Land Use
Study and description of soils as natural materials in the landscape. The course includes an examination of physical, chemical, and biological properties of soils as they affect soil-plant-water relations. Other topics include soil classification and suitability for agriculture, urban development, contaminant remediation, field examinations of soils, and physical and chemical soil analyses. Prerequisites: ESP 101/102 and one semester of chemistry lecture/lab, or permission of instructor. Cr 3.

ESP 260 Soil and Water Conservation Engineering
A study of the utilization, improvement, and protection of two essential resources--soil and water. Primary focus is on applying scientific and engineering principles to the problem areas of soil erosion and flood control. Students will design practical solutions to remediate these problems. Prerequisite: successful completion of the University's Quantitative Reasoning requirement. Cr 3.

ESP 275 Energy Use and Societal Adaptation
This course focuses on the topic of energy, its utility, its use, and its impact on society and the environment. Subjects to be explored include: 1) traditional, modern and future energy resources; 2) energy consumption; 3) energy technologies; 4) energy and the environment and 5) sustainable development. The class will consist of a combination of lectures and seminars using a variety of media, including textbooks, technical articles, print, and video. Prerequisites: ESP 101/102 or science exploration course. Cr 3.

ESP 280 Research and Analytical Methods
A focus on research and analytical techniques for environmental science, policy and planning. The course is centered on the use of instrumentation and investigative research to address a thematic environmental issue. Topics include defining research problems, hypothesis construction, experimental design, measurement, sampling, and analysis. Students will complete group research projects. Prerequisites: ESP 101/102, ESP 197, and ESP 125/126 or one semester of chemistry lecture. Cr 4.

ESP 303 Wetlands Ecology
This lecture course examines wetlands from the perspectives of science and policy. Topics will include basic wetlands ecology and biology, wetland definitions, classification, and regional and national trends in habitat destruction and management. Prerequisites: ESP 125 or BIO 203, and one semester of chemistry lecture/lab, or permission of instructor. Cr 3.

ESP 305 Community Planning Workshop
This course provides a practical approach to local community planning problems. Students will conduct field work to explore community decision-making processes regarding the use of natural, social and economic resources. Basic planning concepts are refined and applied to real-world problems in a collaborative manner. Prerequisites: ESP 101/102, and GEO 209 or GEO/ESP 210 or ESP 200, or permission of instructor. Cr 3.

ESP 308 Global Environmental Problems and Sustainability
This course is a thorough examination of global environmental problems and the need for the principles of sustainability to solve these problems. Topics will include frameworks, tools, and applications of sustainability including sustainability science, life cycle assessment, zero waste, industrial ecology, pollution prevention, natural step, and community-based social marketing. The course meets the Ethical Inquiry and International core requirements. Prerequisites: ESP 101/102 and ESP 203, or permission of instructor. Cr 3.

ESP 311 Energy Efficiency
This course provides students with an understanding of how to analyze and identify opportunities for energy savings in all economic sectors. Emphasis will be placed on energy balancing, life cycle analysis, economic payback and energy efficiency policies. The course culminates with a Maine-based case study. Prerequisite: CHY 1XX (lecture) and MAT 108 or equivalent, or permission of instructor. Cr 3.

ESP 313 Renewable Energy
This course will equip students with knowledge of renewable energy systems (including solar, wind, water, geothermal, and biomass), their underlying physical and technological principles, their environmental impact, their economics, and how they can be integrated into current energy infrastructures. The course culminates with a renewable energy design project. Prerequisite: CHY 1XX (lecture) and MAT 108 or equivalent, or permission of instructor. Cr 3.

ESP 326 Environmental Economics
This course considers the economic aspects of resource and environmental issues, such as pollution, the use and management of natural resources, environmental justice, and global climate change. In addressing each of these issues students will investigate the implications of various public policy responses such as regulation, marketable permits, and tax incentives. Prerequisite: ECO 102 or permission of instructor. Cr 3.

ESP 327 Natural Resource Economics
This course considers the economic aspects of natural resource management and use, including the economically sustainable management of fisheries, forests, water resources, and biodiversity, with applications to Maine and beyond. Students will investigate the implications of public policy responses such as regulations, marketable permits, and tax incentives. Prerequisite: ECO 102 or permission of instructor. Cr 3.

ESP 340 Environmental Regulations
This online course is an intensive introduction to the federal and Maine environmental regulatory structure. This course is designed to provide basic competency in the knowledge and application of environmental laws and regulations, including air, surface water, drinking water, spill reporting, land use, and hazardous and solid waste. Cr 3.

ESP 341 Limnology
The study of inland waters with emphasis on the identification and ecology of aquatic organisms. This course meets on Fridays to allow time for extended field trips to local streams and lakes. Students will conduct independent research projects as part of the course. Prerequisites: ESP 125 or BIO 203, and one semester of chemistry lecture/lab, or permission of instructor. Cr 4.

ESP 350 Environmental Entomology
This course covers fundamental topics in entomology including environmental physiology, arthropod borne disease, biological indicators and sentinel species, invasive species, and integrated pest management (IPM). It includes topics in forest and urban entomology. Students gain experience in monitoring insect diversity, estimating populations, chemical ecology, and measuring physiological adaptations. Environmental entomology topics are applicable to a wide range of disciplines including biology, chemistry, environmental science, medicine, veterinary sciences, ecology, forensic science, and general science education. Prerequisite: C- or better in BIO 107 or ESP 125, or permission of instructor. Cr 3.

ESP 360 Water Quality Assessment and Control
A study of water-related legislation, methods for determining compliance with statutes, and control methods used for water quality attainment.
Regional topics addressed include: waste-water treatment, drinking water standards, storm water runoff, eutrophication, best management practices, and biomonitoring for water quality assessment. Prerequisite: one semester of chemistry lecture/lab, or permission of instructor. Cr 4.

**ESP 375 Environmental Risk Assessment and Management**
The focus of this course is to provide students with competency in quantitative human health risk assessment—an organized, multidisciplinary approach to evaluating scientific data by studying basic toxicology and fate and transport of contaminants using generally accepted principles and terminology used in the field. Students will also study the scientific, political, social, ethical, and economic dimensions of managing risks. Prerequisites: ESP 101/102, ESP 203, or permission of instructor. Cr 3.

**ESP 389 Teaching Practicum**
Students in this course are mentored by a faculty member and provide assistance in teaching and delivery of an ESP course. Prerequisite: permission of instructor. This course may be repeated. Cr 1-3.

**ESP 400 Internship**
The internship provides professional experience related to a student's chosen option within the major. The emphasis is on understanding the host organization's structure and function within the environmental area. In addition to satisfactory work experience, an oral presentation and written report are required. Offered as pass/fail only. Intended to be taken between the junior and senior year. Prerequisites: sophomore standing or higher, faculty approval of host organization, work plan, and completed "Internship Approval" Form, and permission of instructor. Cr 3.

**ESP 401 Environmental Impact Assessment and Lab**
An overview of methods used to analyze the environmental impact of human decisions. The course will emphasize U.S. requirements for impact assessment as outlined in NEPA. Federal documents (DEIS, EIA, EIS, FONSI, and ROD) filed for past and ongoing projects are reviewed. A laboratory session is taken concurrently and is writing-intensive. Focus is on a hands-on application of assessment procedures to a thematic environmental issue. This is a capstone course. Prerequisites: senior standing, ESP 280 or permission of instructor. Cr 4.

**ESP 403 Bioremediation and Phytoremediation**
A study of the interaction of soils and groundwater with organic and synthetic contaminants, and the role of soils in pollution control. Students investigate the physical, chemical, and microbiological properties of soil and water and compare conventional remediation with bioremediation techniques. Special emphasis is placed on regional pollution problems including agricultural runoff, landfill leachates, and leaking underground storage tanks. Prerequisites: ESP 101/102, one semester of chemistry lecture/lab, and ESP 250, or permission of instructor. Cr 3.

**ESP 412 Field Ecosystem Ecology**
This course provides a fundamental understanding of ecosystem ecology, with an emphasis on forested and aquatic ecosystems and impacts of the physical and chemical environment on ecosystem functioning. The course is writing intensive and includes hypothesis generation, field research, computer analysis, and journal article interpretation and writing. The laboratory is field intensive and includes local field trips, team research exercises, and independent field research projects. Prerequisites: ESP 125/126 or BIO 203, or permission of instructor. Cr 4.

**ESP 413 Forest Ecology**
This course provides students with an understanding of what constitutes a healthy forest ecosystem and a sustainable forest environment. Special emphasis is placed on the function, spatial variability, evolution of forest ecosystems, and the need for forest ecology as the foundation of forest management. The laboratory session is field-intensive. Prerequisite: ESP 125/126 or permission of instructor. Cr 4.

**ESP 417 Site Planning and Assessment**
An introduction to environmental planning and assessment concepts and skills associated with the development of sites for human use. Emphasis is given to the development of particular tracts or parcels of land in Maine. Prerequisite: GEO 209 or ESP 200, or permission of instructor. Cr 3.

**ESP 421 Natural Resource Policy**
This course focuses on the formulation, analysis, and implementation of natural resource based policies through the framework of the rational policy process. Subject areas will include commercial fisheries, river restoration, wildlife, and recreation. Special focus will be on open-access conflicts and stakeholder resolutions. Prerequisite: ESP 220. Cr 3.

**ESP 445 Environmental Education and Interpretation**
Students explore the basics of classroom and non-formal environmental science education and interpretation using an inquiry-based approach. Topics include teaching ecosystem and environmental science principles, selecting and designing environmental curricula, and assessment. Prerequisite: 12 credits of science or permission of instructor. Cr 3.

**ESP 450 Research Practicum**
Organized research experiences in ongoing faculty research projects or a mutually arranged special topic involving substantial skills development. Research will be conducted under the direct supervision of the faculty member. Permission of instructor required in semester prior to registration. May be repeated for a maximum of 6 credits. Cr 1-3.

**ESP 470 Solid Waste Planning and Policy**
An examination of traditional and innovative policy approaches involved in managing municipal solid waste. Includes identifying capacity needs,
siting locations, transportation, and economic needs for management strategies (e.g., recycling, reuse, composting). Students will work on a local solid waste planning project to identify cost-effective approaches to reducing land-disposal. Prerequisites: College Writing and Quantitative Reasoning. Cr 3.

**ESP 475 Topics in Environmental Science**
Topics in environmental science not regularly covered in other courses. The content will vary based on current local and regional environmental issues. This course may be taken more than once. Prerequisite: junior or senior status. Cr 3.

**ESP 489 Grant Writing Seminar**
This course is for juniors and seniors in all disciplines who plan on entering professional careers requiring knowledge of grant writing to successfully submit competitive corporate and foundation proposals, and state and federal grant applications. Developing effective grant writing skills offers a competitive edge for job-seekers across many disciplines and is essential to acquiring competitive funding from government agencies and private foundations. Writing a successful grant proposal is a blend of art and science. It requires basic know-how, content knowledge, writing proficiency, strong research skills, creativity, organizational ability, patience, and a great deal of luck. This course provides the background necessary to develop a competitive funding proposal. Prerequisite: junior standing or higher. Cr 2.

**ESP 517 Site Planning and Assessment**
An introduction to environmental planning and assessment concepts and skills associated with the development of sites for human use. Emphasis is given to the development of particular tracts or parcels of land in Maine. Prerequisites: ESP/GEO 108 or GEO 308, and GEO 209 or ESP 200, graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

**ESP 521 Natural Resource Policy**
This course focuses on the formulation, analysis, and implementation of natural resource based policies through the framework of the rational policy process. Subject areas will include commercial fisheries, river restoration, wildlife, and recreation. Special focus will be on open access conflicts and stakeholder resolutions. Prerequisites: ESP 220, graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

**ESP 526 Environmental Economics**
This course considers the economic aspects of resource and environmental issues, such as pollution, the use and management of natural resources, environmental justice, and global climate change. In addressing each of these issues we will investigate the implications of various public policy responses such as regulation, marketable permits, and tax incentives. Prerequisites: ECO 102, graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

**ESP 527 Natural Resource Economics**
This course considers the economic aspects of natural resource management and use, including the economically sustainable management of fisheries, forests, water resources, and biodiversity, with applications to Maine and beyond. We will investigate the implications of public policy responses such as regulations, marketable permits, and tax incentives. Prerequisites: ECO 102, graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

**ESP 540 Environmental Regulations**
This online course is an intensive introduction to the federal and Maine environmental regulatory structure. This course is designed to provide basic competency in the knowledge and application of environmental laws and regulations, including air, surface water, drinking water, spill reporting, land use, and hazardous and solid waste. Prerequisite: graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

**ESP 542 Environmental Science: Concepts and Strategies for Teachers**
This course functions as an independent learning experience in applying knowledge from neuroscience to the development of learning experiences in environmental science. Students create a one-week environmental education unit for the classroom (three or more lessons). In addition to exploring how people learn, topics include teaching ecosystem and environmental science principles, integrating environmental science as a vehicle for teaching other subjects, selecting and designing environmental curricula, and informal/extracurricular education. Prerequisite: graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

**ESP 545 Environmental Education and Interpretation**
Students explore the basics of classroom and non-formal environmental science education and interpretation using an inquiry-based approach. Topics include teaching ecosystem and environmental science principles, selecting and designing environmental curricula, and assessment.
Prerequisites: 12 credits of science, graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

ESP 570 Solid Waste Planning and Policy
An examination of traditional and innovative policy approaches involved in managing municipal solid waste. Includes identifying capacity needs, siting locations, transportation, and economic needs for management strategies (e.g., recycling, reuse, composting). Students will work on a local solid waste planning project to identify cost-effective approaches to reducing land-disposal. Prerequisite: graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 3.

ESP 589 Grant Writing Seminar
This course is for graduate students in all disciplines who plan on entering professional careers requiring knowledge of grant writing to successfully submit competitive corporate and foundation proposals, and state and federal grant applications. Developing effective grant writing skills offers a competitive edge for job-seekers across many disciplines and is essential to acquiring competitive funding from government agencies and private foundations. Writing a successful grant proposal is a blend of art and science. It requires basic know-how, content knowledge, writing proficiency, strong research skills, creativity, organizational ability, patience, and a great deal of luck. This course provides the background necessary to develop a competitive funding proposal. Prerequisite: graduate standing or acceptance into an accelerated degree pathway, or permission of instructor. Cr 2.
Exercise, Health, and Sport Sciences Overview

Chair of the Department: Janet Blum

Professors: Blum, Scott; Associate Professor: Toy; Lecturers: Murphy, Neptune

The Department of Exercise, Health, and Sport Sciences offers degrees in athletic training, exercise science, and health sciences. The Department's athletic training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The Department's exercise science program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Upon completion of the curriculum, the undergraduate athletic training student will be eligible to challenge the Board of Certification (BOC) examination leading to national certification as an Athletic Trainer (ATC) and licensure as an Athletic Trainer (LAT) in most states, including Maine. Upon completion of the curriculum, the undergraduate exercise science student will be eligible to challenge an eclectic mix of national certification examinations including the American College of Sports Medicine's (ACSM) Certified Personal Trainer® and Certified Exercise Physiologist® certification examinations and the National Strength and Conditioning Association's (NSCA) Certified Strength and Conditioning Specialist® (CSCS) examination. Health sciences graduates are prepared for careers in general health science fields and for admission to graduate professional programs.

Admission Requirements

In addition to the requirements established for admission to the University, the Department of Exercise, Health, and Sport Sciences requires applicants to have successfully completed high school chemistry and biology with labs.

Change of Major

Students enrolled in other USM programs of study desiring to enroll in athletic training, exercise science, or health sciences through the change of major process, must have a 2.50 USM GPA. Students cannot double major within department offerings.

Additional Information

Experiential Learning Requirements

Most department majors require supervised clinical, practicum, and/or internship experiences. Thus, the exercise, health, and sport sciences faculty reserve the right to limit enrollment in these programs.

In addition, clinical, practica, and internship experiences occur in a variety of settings in the southern Maine area. Thus, students must provide their own transportation to rural as well as urban areas. It is highly recommended that students purchase professional liability insurance.

Course Fees

Each exercise, health, and sport sciences laboratory and clinical course offering has a fee ranging from $20 to $150.

BS in Athletic Training

Description

The athletic training program (ATP) is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Athletic training is a recognized allied health care profession by the American Medical Association. A Certified Athletic Trainer (ATC) enhances the quality of health care for athletes and those engaged in physical activity. An athletic trainer is skilled in the prevention, treatment, management, and rehabilitation of musculoskeletal and related injuries.

Program Requirements

Clinical Education Progression Requirements
Prior to SPM 210, Clinical Athletic Training Principles I, a student must:

- Complete the prerequisite coursework as outlined in the course description of the catalog.
- Sign the published "technical standards" for the athletic training program.
- Present documentation of receiving the first two of three required Hepatitis B immunization injections. Documentation should include copies of the laboratory reports that the student received the injections. If the student chooses not to be Hepatitis B immunized, he or she must read, complete, and sign the form entitled "Hepatitis B Vaccine Declination Assumption of Risk and Release."
- Sign the published "communicable disease policy" for the athletic training program.

Prior to enrolling in SPM 270, Athletic Training Clinic I, a student must:

- Complete the prerequisite coursework outlined in the course description section of the catalog.
- Present proof of current American Red Cross Cardiopulmonary Resuscitation (CPR) for the Professional Rescuer certification or Basic Life Support (BLS) for Health Care Providers through the American Heart Association.

Prior to enrolling in SPM 370, Athletic Training Clinic II, a student must:

- Complete the prerequisite coursework as outlined in the course description section of the catalog.
- Present proof of current American Red Cross Cardiopulmonary Resuscitation (CPR) for the Professional Rescuer certification or Basic Life Support (BLS) for Health Care Providers through the American Heart Association.
- Present documentation of receiving the third injection of the Hepatitis B Immunization series.

Prior to enrolling in subsequent clinical (SPM 371, 470) and internship (SPM 495) courses, a student must:

- Complete the prerequisite coursework for each course as outlined in the course description section of the catalog.
- Present proof of current American Red Cross Cardiopulmonary Resuscitation (CPR) for the Professional Rescuer certification or Basic Life Support (BLS) for Health Care Providers through the American Heart Association.

Didactic Education Progression Requirements

While enrolled in the ATP, students must:

- Maintain a minimum cumulative GPA of 2.50.
- Earn a minimum grade of C- in all required courses. Students receiving a grade lower than C- in a required course will not be allowed to sequence into post-requisite coursework until the prerequisite deficiency has been rectified.

Probation

Students will be placed on academic probation for failure to maintain a minimum cumulative GPA of 2.50. Students failing to rectify the GPA deficiency within a one-year probation period will be removed from their declared major and from their status as a student within the Department. Upon rectifying the GPA deficiency, students can reapply for admission into a Departmental major.

Graduation Requirements

Students will graduate with a bachelor of science degree in athletic training when the following requirements are satisfied.

- Minimum cumulative GPA of 2.50.
- Completion of all University Core curriculum requirements.
- Completion of all exercise, health, and sport sciences core required coursework with minimum grades of C-.
- Completion of all athletic training major coursework with minimum grades of C-.
- Completion of 120 credits.

Degree Requirements

The bachelor of science in athletic training consists of 120 credit hours: University Core Curriculum courses, EHSS required core courses, Athletic Training major required courses, and Athletic Training approved electives if needed to complete the 120-minimum credit requirement.

**University Core Courses**

- EYE (Entry-Year Experience) 3
- College Writing 3
- Quantitative Reasoning (MAT 120 or PSY 201) 3 - 4

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Science Exploration (PHY 101/102 or PHY 111/114) 4 - 5
Creative Expression 3
Cultural Interpretation 3
Socio-cultural Analysis 3
Ethical Inquiry, Social Responsibility, and Citizenship 3
Thematic Cluster 3
International 3
Diversity 3

**EHSS Required Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr</th>
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</thead>
<tbody>
<tr>
<td>CHY 107 Chemistry for Health Sciences</td>
<td>3</td>
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<tr>
<td>or CHY 113 Principles of Chemistry I</td>
<td></td>
</tr>
<tr>
<td>BIO 111 Human Anatomy and Physiology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO 112 Practical Human Anatomy and Phys I</td>
<td>1.5</td>
</tr>
<tr>
<td>BIO 113 Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIO 114 Practical Human Anatomy and Phys II</td>
<td>1.5</td>
</tr>
<tr>
<td>CON 252 Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>SPM 100 Introduction to Exercise, Health and Sport Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SPM 216 Emergency Medical Response</td>
<td>3</td>
</tr>
<tr>
<td>SPM 219 Lifetime Physical Fitness and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>SPM 230 Psychology of Physical Activity and Sport</td>
<td>3</td>
</tr>
<tr>
<td>SPM 325 Methods of Resistance Training and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>SPM 330 Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>SPM 352 Nutrition for Physical Performance</td>
<td>3</td>
</tr>
<tr>
<td>SPM 381 Kinesiology</td>
<td>3</td>
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<tr>
<td>SPM 430 Exercise Testing, Assessment and Prescription</td>
<td>3</td>
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</tbody>
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**Athletic Training Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr</th>
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</thead>
<tbody>
<tr>
<td>SPM 210 Clinical Athletic Training Principles I</td>
<td>3</td>
</tr>
<tr>
<td>SPM 211 Protective Taping and Wrapping</td>
<td>1</td>
</tr>
<tr>
<td>SPM 265 Therapeutic Modalities</td>
<td>3</td>
</tr>
<tr>
<td>SPM 270 Athletic Training Clinic I</td>
<td>2</td>
</tr>
<tr>
<td>SPM 302 Pharmacology for Athletic Training and Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>SPM 310 Athletic Training Principles II</td>
<td>3</td>
</tr>
<tr>
<td>SPM 340 Therapeutic Exercise</td>
<td>3</td>
</tr>
<tr>
<td>SPM 370 Athletic Training Clinic II</td>
<td>2</td>
</tr>
<tr>
<td>SPM 371 Athletic Training Clinic III</td>
<td>2</td>
</tr>
<tr>
<td>SPM 410 Athletic Training Principles III</td>
<td>3</td>
</tr>
<tr>
<td>SPM 440 Manual Therapy</td>
<td>3</td>
</tr>
<tr>
<td>SPM 470 Athletic Training Clinic IV</td>
<td>3</td>
</tr>
<tr>
<td>SPM 480 Organization and Administration of Athletic Training</td>
<td>3</td>
</tr>
<tr>
<td>SPM 485 Senior Thesis I</td>
<td>3</td>
</tr>
<tr>
<td>or CON 321 Health Related Research</td>
<td></td>
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<tr>
<td>SPM 495 Clinical Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Athletic Training Major Approved Electives**
Consult with your advisor to determine if athletic training electives are needed to complete the 120-credit minimum graduation requirement. Elective courses require advisor approval.

**Admission Information**

In addition to the requirements established for admission to the University, the Department of Exercise, Health, and Sport Sciences requires applicants to have successfully completed high school chemistry and biology with labs.

Athletic training accreditation guidelines dictate that only a limited number of students can matriculate into the athletic training program (ATP) at any one time. Please see the curriculum director of the CAATE accredited athletic training program for additional information.

**Special note to transfer students:** It is highly recommended that students interested in transferring into ATP meet with the ATP director.
Students enrolled in other USM programs of study who desire to enroll in athletic training through the change of major process must have a 2.50 USM GPA. Students cannot double major within department offerings.

BS in Exercise Science

Description

The exercise science program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Exercise science students utilize science, research methodologies, and practical application to study the effects of exercise on health and human performance. Exercise science students learn how to recognize and evaluate cardiovascular, pulmonary, and metabolic functions and plan and implement programs for diseased and healthy populations to maintain and enhance physical fitness, health, and quality of life.

Program Requirements

Retention and Progression Requirements

Students will be retained within the Exercise Science major providing the following criteria are maintained throughout their undergraduate experience:

- Sign the published "technical standards" for the Exercise Science major. Technical standards will be addressed and completed during SPM 260.
- Maintain a minimum cumulative GPA of 2.50.
- Earn a minimum grade of C- in all required courses. Students receiving a grade lower than C- in a required course will not be allowed to sequence into post-requisite coursework until the prerequisite deficiency has been rectified.
- Present proof of current American Red Cross Cardiopulmonary Resuscitation (CPR) for the Professional Rescuer certification, or its equivalent, prior to enrolling in the following courses: SPM 385 and/or SPM 395, and SPM 495.

Probation

Students will be placed on academic probation for failure to maintain a minimum cumulative GPA of 2.50. Students failing to rectify the GPA deficiency within a one-year probation period will be removed from their declared major and from their status as a student within the Department. Upon rectifying the GPA deficiency, students can reapply for admission into a Departmental major.

Graduation Requirements

Students will graduate with a bachelor of science degree in exercise science when the following requirements are satisfied:

- Minimum cumulative GPA of 2.50.
- Completion of all University Core curriculum requirements.
- Completion of all exercise, health, and sport sciences core required coursework with minimum grades of C-.
- Completion of all exercise science major coursework with minimum grades of C-.
- Completion of 120 credits.

Degree Requirements

The bachelor of science in exercise science consists of 120 credit hours: University Core Curriculum courses, EHSS required core courses, Exercise Science major required courses, and Exercise Science approved electives if needed to complete the 120-minimum credit requirement.

University Core Curriculum Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr</th>
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<tbody>
<tr>
<td>EYE (Entry-Year Experience)</td>
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<tr>
<td>College Writing</td>
<td>3</td>
</tr>
<tr>
<td>Quantitative Reasoning (MAT 120 or PSY 201)</td>
<td>3 - 4</td>
</tr>
<tr>
<td>Science Exploration (PHY 101/102 or PHY 111/114)</td>
<td>4 - 5</td>
</tr>
<tr>
<td>Creative Expression</td>
<td>3</td>
</tr>
<tr>
<td>Cultural Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>Socio-cultural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Ethical Inquiry, Social Responsibility, and Citizenship</td>
<td>3</td>
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</tbody>
</table>
Thematic Cluster

International

Diversity

Thematic Cluster

Thematic Cluster

Thematic Cluster

EHSS Required Core Courses  
Cr (42)

CHY 107 Chemistry for Health Sciences 3

or CHY 113 Principles of Chemistry I 3

BIO 111 Human Anatomy and Physiology I 3

BIO 112 Practical Human Anatomy and Phys I 1.5

BIO 113 Human Anatomy and Physiology II 3

BIO 114 Practical Human Anatomy and Phys II 1.5

CON 252 Human Nutrition 3

SPM 100 Introduction to Exercise, Health and Sport Sciences 3  
(required for majors with 60 credits or less)

SPM 216 Emergency Medical Response 3

SPM 219 Lifetime Physical Fitness and Wellness 3

SPM 230 Psychology of Physical Activity and Sport 3

SPM 325 Methods of Resistance Training and Conditioning 3

SPM 330 Physiology of Exercise 3

SPM 352 Nutrition for Physical Performance 3

SPM 381 Kinesiology 3

SPM 430 Exercise Testing, Assessment and Prescription 3

Exercise Science Required Courses  
Cr (33)

SPM 260 Introduction to Personal Training 3

SPM 325 Methods of Resistance Training and Conditioning 3

SPM 350 Health Promotion Programs 3

SPM 385 Practicum I 3

SPM 395 Practicum II 3

SPM 431 Advanced Exercise Physiology 3

SPM 450 Exercise for Special Populations 3

SPM 485 Senior Thesis I 3

SPM 486 Senior Thesis II 3

SPM 495 Clinical Internship/Co-op 9

Exercise Science Approved Electives

Consult with your advisor to determine if exercise science electives are needed to complete the 120-credit minimum graduation requirement. Elective courses require advisor approval.

Students wishing to pursue a Biology minor, should consult with the Department of Biological Sciences.

Students wishing to pursue a Chemistry minor, should consult with the Department of Chemistry.

Students wishing to pursue a Holistic and Integrative Health minor, should consult with the School of Nursing.

Students wishing to pursue a Business Administration minor, should consult with the School of Business.

Admission Information

In addition to the requirements established for admission to the University, the Department of Exercise, Health, and Sport Sciences requires applicants to have successfully completed high school chemistry and biology with labs.

Students enrolled in other USM programs of study who desire to enroll in exercise science through the change of major process must have a 2.50 USM GPA. Students cannot double major within department offerings.
BS in Health Sciences

Description

The bachelor of science in health sciences curriculum reflects the different educational goals and breadth of needs of the students enrolled in the program. The bachelor of science in health sciences can also be a baccalaureate completion program for associate's degree allied health graduates. As health care shifts to outpatient and community settings, and more health promotion and health education, these graduates with their expanded professional role capability will be able to provide more effective care to the community. The curriculum includes completion of the USM Core Curriculum requirements, the Health Sciences core requirements, and one track of study: wellness, pre-professional, health care administration, or the occupational therapy accelerated pathway program.

Program Requirements

Retention and Progression Requirements

While enrolled in Health Sciences, students must:

- Maintain a minimum cumulative GPA of 2.50.
- Earn a minimum grade of C- in all required courses. Students receiving a grade lower than C- in a required course will not be allowed to sequence into post-requisite coursework until the prerequisite deficiency has been rectified.

Probation

Students will be placed on academic probation for failure to maintain a minimum cumulative GPA of 2.50. Students failing to rectify the GPA deficiency within a one-year probation period will be removed from their declared major and from their status as a student within the Department. Upon rectifying the GPA deficiency, students can reapply for admission into a Departmental major.

Graduation Requirements

Students will graduate with a bachelor of science degree in health sciences when the following requirements are satisfied:

- Minimum cumulative GPA of 2.50.
- Completion of all University Core curriculum requirements.
- Completion of all health sciences core required coursework with minimum grades of C-.
- Completion of coursework within one track of study with minimum grades of C-.
- Completion of 120 credits.

Degree Requirements

The bachelor of science in health sciences consists of 120 credit hours: University Core Curriculum courses, Health Sciences major required core courses, a Track of Study, and approved electives if needed to complete the 120-minimum credit requirement.

University Core Courses

<table>
<thead>
<tr>
<th>Course</th>
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<td>Socio-cultural Analysis (HRD/SBS 200)</td>
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<td>Thematic Cluster</td>
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<td>International</td>
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<td>Diversity</td>
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Health Sciences Required Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr</th>
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<tbody>
<tr>
<td>PSY 101 General Psychology I</td>
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<tr>
<td>PSY 102 General Psychology II</td>
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</tbody>
</table>
BIO 111 Human Anatomy and Physiology I 3
BIO 112 Practical Human Anatomy and Phys I 1.5
BIO 113 Human Anatomy and Physiology II 3
BIO 114 Practical Human Anatomy and Phys II 1.5
CHY 107 Chemistry for Health Sciences 3
or CHY 113 Principles of Chemistry I 3
CON 252 Human Nutrition 3
CON 321 Health Related Research 3
CON 356 Concepts of Community Health 3
or SCI/SBS 336 Introduction to Public Health 3
SPM 100 Introduction to Exercise, Health and Sport Sciences 3
(required for majors with 30 credits or less)
SPM 219 Lifetime Physical Fitness and Wellness 3
SPM 230 Psychology of Physical Activity and Sport 3
SPM 350 Health Promotion Programs 3

Track of Study (30 credits)

Students must complete one track of study as part of the health sciences major. Students who have a two-year Health-Related Associates Degree do not have to complete a track of study (i.e. 30 credits of the A.S. degree will be applied to the Track requirement) This situation does not apply for students interested in pursuing the Occupational Therapy Accelerated Pathway.

With faculty advisor permission, students may petition to substitute up to six credits of track requirements with other university-level health science-related course work. This substitution only applies to students pursuing the Wellness, Pre-Professional, and Health Care Administration tracks. It does not apply to students interested in pursuing the Occupational Therapy Accelerated Pathway.

The Wellness, Pre-Professional, and Health Care Administration tracks present the option for a minor, though the completion of a minor is not required.

Wellness Track (30 Credits)

Self-select 30 credits from the list below. Students wishing to pursue a Holistic and Integrative Health minor should consult with the School of Nursing. Students wishing to pursue a Psychology minor should consult with the Department of Psychology.

GRN 300 Partnering with Family Caregivers
GRN 313 Health in Later Years
GRN 315 Rehabilitation Services for Older Adults
GRN 318 Adult Development and Aging
GRN 390 Evaluation and Health Assessment of the Older Adult
GRN 435 Death and Dying: Contemporary Issues
HIH 261 Introduction to Naturopathic Medicine
HIH 270 Holistic Approaches to Reproductive Health
HIH 280 Holistic Health I
HIH 281 Holistic Health II
HIH 283 Healing and Spirituality
HIH 284 Botanical Therapies
HIH 288 Reiki: Energy Medicine
HIH 490 Therapeutic Touch
HRD 310 Aging and the Search for Meaning
HRD 312 The Spiritual Challenges and Opportunities of Aging
NUR 203 Mindfulness Based Stress Reduction
PSY 220 Psychology of the Lifespan
PSY 230 Social Psychology
PSY 233 Psychopathology
PSY 338 Theories of Personality
PSY 340 Behavior Modification
PSY 350 Psychology of Learning
PSY 360 Cognitive Process
PSY 361 Sensation and Perception
PSY 365 Physiological Psychology
PSY 366 Drugs, Mind, and Behavior
PSY 368 Health Psychology
PSY 390 Health Psychology Institute
REC 110 Foundations of Recreation and Leisure Studies
REC/SPM 216 Emergency Medical Response
REC 218 Emergency Medical Response with Focus on Wilderness Application
REC 285 Perspective on Animal-Assisted Therapy
REC 311 Psychosocial Intervention for Older Adults
RHF prefix courses (any two 1.5 credit courses)
SWO 375 Gender and Aging

Pre-Professional Track (30 credits)

Self-select 30 credits from the list below. Students wishing to pursue a Biology minor should consult with the Department of Biological Sciences. Students wishing to pursue a Biochemistry minor or a Chemistry minor should consult with the Department of Chemistry.

BIO 105 Biological Principles I: Cellular Biology
BIO 106 Laboratory Biology
BIO 201 Genetics
BIO 205 Comparative Vertebrate Anatomy
BIO 281 Microbiology for Health Sciences
BIO 282 Microbiological Laboratory
BIO 305 Developmental Biology
BIO 306 Developmental Biology Laboratory
BIO 321 Neurobiology
BIO 322 Neurobiology Laboratory
BIO 345 Pathophysiology
BIO 401 Animal Physiology
BIO 402 Animal Physiology Laboratory
BIO 403 Comparative Animal Physiology
BIO 404 Comparative Animal Physiology Laboratory
BIO 408 Experimental Genetics
BIO 409 Cell and Molecular Biology
BIO 410 Cell and Molecular Biology Laboratory
BIO 431 Principles of Immunology
CHY 113 Principles of Chemistry I
CHY 114 Laboratory Techniques I
CHY 115 Principles of Chemistry II
CHY 116 Laboratory Techniques II
CHY 233 Analytical Chemistry with Laboratory
CHY 251 Organic Chemistry I
CHY 252 Organic Chemistry Laboratory I
CHY 253 Organic Chemistry II
CHY 254 Organic Chemistry Laboratory II
CHY 351 Advanced Organic Chemistry
CHY 371 Quantum Chemistry
CHY 373 Chemical Thermodynamics
CHY 374 Chemical Thermodynamics Laboratory
CHY 421 Inorganic Chemistry
CHY 461 Biochemistry I
CHY 462 Biochemistry Laboratory I
CHY 463 Biochemistry II
CHY 464 Biochemistry Laboratory II
PHY 121 General Physics I
PHY 123 General Physics II
MAT 140 Pre-Calculus Mathematics
MAT 152 Calculus A
MAT 220 Statistics for the Biological Sciences

Health Care Administration Track (30 credits)

Self-select 30 credits from the list below. Students wishing to pursue a Business Administration minor should consult with the School of Business.

Business Administration Courses - Choose 21 credits from the following:

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Choose 9 credits from the following:
ITS 320 Workplace Safety and Health Management Systems
ITP 210 Technical Writing
ITP 230 Project Management
ITP 350 Leadership, Team Building and Facilitation
ITP 381 Human Resource Development
ITP 490 Cost Analysis and Control
MPH 425 American Health Systems
SBS/SCI 336 Introduction to Public Health

Occupational Therapy Accelerated Pathway (31 credits)

This pathway is for students interested in pursuing USM's Masters in Occupational Therapy (MOT). Entrance into this program is competitive and includes the completion of a formal application process. For more information about USM's MOT program please contact the Coordinator of Graduate Programs at USM's Lewiston-Auburn College. Students accepted into the program will be advised by both an OT faculty member and their HLS advisor.

General Electives

Consult with your advisor to determine if general electives are needed to complete the 120-credit minimum graduation requirement.

Admission Information

In addition to the requirements established for admission to the University, the Department of Exercise, Health, and Sport Sciences requires applicants to have successfully completed high school chemistry and biology with labs.

Students enrolled in other USM programs of study who desire to enroll in health sciences through the change of major process must have a 2.50 USM GPA.

Students cannot double major within department offerings.

Course Descriptions

SPM 100 Introduction to Exercise, Health, and Sport Sciences
This course orients the student to the expectations of a baccalaureate education in athletic training, exercise science, or health sciences. Allied health historical perspectives, education, careers, certification, and professional associations are explored. Educating the students about the structure and progression of the three degrees will be discussed. Cr 3.

SPM 210 Clinical Athletic Training Principles I
An introduction to the principles of prevention, examination, treatment, and reconditioning of physical activity injuries. Lecture information prepares students for supervised clinical experiences. Completion of a minimum of 30, and a maximum of 50 clinical observation hours required. Prerequisites: ALT major; 24 University credit hours completed; minimum cumulative GPA of 2.50; SPM 100 or concurrent; SPM 216 or concurrent; BIO 111, 112 or SCI 170, 171 or concurrent; Co-requisite: SPM 211. Cr 2.

SPM 211 Protective Taping and Wrapping
An introduction to the principles of taping and wrapping as they pertain to preventative, protective, and post injury situations. In addition, basic skills in stretching will be taught. Laboratory course in which the completion of competencies prepare students for supervised clinical experience.
Prerequisites: ALT major; SPM 100 or concurrent; SPM 216 or concurrent; Co-requisite: SPM 210. Cr 1.

SPM 216 Emergency Medical Response
This course covers the topics prescribed by the American Red Cross in their emergency medical response course, including respiratory and cardiac emergencies, wounds, poisoning, sudden illness, burns and other topics. Successful completion of the certification requirements will lead to Emergency Medical Response and CPR for the Professional Rescuer certifications from the American Red Cross. Prerequisite: ALT, EXS, or HLS major. Cr 3.

SPM 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 readings, discussions, self-assessment activities & labs, and development of personalized nutrition and physical activity plans. Cr 3.

SPM 230 Psychology of Physical Activity and Sport
This course presents an overview of concepts, theories, principles, and research related to exercise and sport behaviors. Practical application of psychological principles and techniques that help facilitate behavior change during exercise and sport activities will be covered. Prerequisites: ALT, EXS, or HLS major. Cr 3.

SPM 235 Lab Techniques in Nutrition and Exercise
An introduction to laboratory techniques that are found in the nutritional and exercise sciences. Students will be introduced to the concepts of energy exchange in the human body and the measurement of those exchanges. Emphasis will also be placed on the impact nutritional practices have on human performance and disease. Prerequisites: ALT or EXS major; SPM 100 or concurrent. Cr 3.

SPM 260 Introduction to Personal Training
An overview of the knowledge, skills, and abilities needed by fitness instructors to plan, implement, and evaluate safe and effective exercise programs. Emphasis is on exercise programs for individuals and groups. Prerequisites: ALT or EXS major; Sophomore level standing; SPM 219 or concurrent. Cr 3.

SPM 265 Therapeutic Modalities
An exploration of the physical principles, physiological effects, indications, contraindications, safety precautions, and operating procedures of therapeutic modalities. Includes application of modalities in the laboratory setting. Prerequisites: ALT major; SPM 100, 210, 211, 216. 2 credits lecture, 1 credit lab. Cr 3.

SPM 270 Athletic Training Clinic I
Completion of a minimum of 150, and a maximum of 175 clinical hours applying proficiency knowledge and skills in an athletic training clinical setting. The first clinical course for students enrolled in the athletic training major. Prerequisites: ALT major; SPM 100, 210, 211, 216. Cr 2.

SPM 302 Pharmacology for Athletic Training and Exercise Science
This course covers the general concepts and principles of pharmacology as it relates to the profession of athletic training and disciplines within the exercise sciences. An explanation of pharmacokinetic and pharmacodynamic principles are covered as are the indications, contraindications, precautions, dose information, allergies, and adverse side effects of prescription and non-prescription drugs commonly used by the physically active person. Governing regulations including storing, transporting, dispensing, and recording of medication will be discussed. Performance-enhancing substances and drug testing in sports will also be covered. Prerequisites: ALT or EXS major; Junior level standing; BIO 111 or SCI 170; BIO 113 or SCI 172; CHY 107 or CHY 113. Cr 3.

SPM 310 Athletic Training Principles II
This is an intermediate study of principles for the prevention, examination, treatment and reconditioning of physical activity injuries. Lecture and laboratory competencies prepare students for supervised clinical experiences. Prerequisites: ALT major; SPM 100, 210, 211, 216. 2 credits lecture, 1 credit lab. Cr 3.

SPM 315 Group Exercise Instruction
This course provides knowledge, skills, and practical experience needed to plan, lead, and evaluate a variety of group exercise sessions effectively. Developing and leading various components of group exercise sessions constitute a major part of this course. Prerequisites: EXS major; SPM 260. Cr 3.

SPM 325 Methods of Resistance Training and Conditioning
Theoretical and practical study of practices and methods involved in developing and implementing resistance training and conditioning programs for physically active populations. Prerequisites: ALT or EXS major; BIO 111, 112 or SCI 170, 171; BIO 113, 114 or SCI 172, 173; Junior level standing. Cr 3.

SPM 330 Physiology of Exercise
An investigation of the acute and chronic effects exercise incurs on the body. Muscle physiology, respiration, cardiac function, circulation, energy
metabolism and application to training will be emphasized and applied in laboratory activities. Prerequisites: ALT or EXS major; CHY 107 or CHY 113; BIO 111, 112 or SCI 170, 171; BIO 113, 114 or SCI 172, 173. 2 credits lecture, 1 credit lab. Cr 3.

SPM 340 Therapeutic Exercise
A study of the basic components of a comprehensive therapeutic exercise program including functional anatomy, joint mobilizations, and rehabilitation programs will be discussed for the appendicular and axial skeletons. In addition, the physiological effects, safety precautions, indications, contraindications, modes of resistance, and specific rehabilitation protocols will be covered. Prerequisites: ALT major; SPM 370, 410; SPM 325, 330, 381 or concurrent. 2 credits lecture, 1 credit lab. Cr 3.

SPM 350 Health Promotion Programs
This course examines the planning, implementation, and evaluation of health promotion programs in a variety of settings. Theoretical and practical concepts are discussed. Specific health promotion programs to be addressed include cardiovascular disease prevention (blood pressure/cholesterol control), physical fitness, nutrition and weight control, stress management and relaxation, substance abuse prevention, financial fitness and occupational safety and health. Prerequisites: EXS or HLS major; Junior level standing. Cr 3.

SPM 352 Nutrition for Physical Performance
The in-depth study of general nutritional practices applied to athletes and other individuals who are physically active. The course will emphasize basic cellular metabolism as it relates to energy production and expenditure during the course of preparation and training for athletics and physical activity. Weight control, use of ergogenic aids and nutritional supplements will also be discussed. Prerequisites: ALT or EXS major; CON 252, SPM 330. Cr 3.

SPM 370 Athletic Training Clinic II
Completion of a minimum of 150, and a maximum of 175 clinical hours applying proficiency knowledge and skills in an athletic training clinical setting. The second clinical course for students enrolled in the athletic training major. Prerequisites: ALT major; SPM 265, 270, 310; BIO 111, 112 or SCI 170, 171; BIO 113, 114 or SCI 172,173. Cr 2.

SPM 371 Athletic Training Clinic III
Completion of a minimum of 150, and a maximum of 175 clinical hours applying proficiency knowledge and skills in an athletic training clinical setting. The third clinical course for students enrolled in the athletic training major. Prerequisites: ALT major; SPM 370, 410; SPM 325, 330, 381 or concurrent. Cr 2.

SPM 381 Kinesiology
Structural and functional anatomical analysis of human movement. Course will also incorporate principles of mechanics as they apply to the analysis of human movement. Prerequisites: ALT or EXS major; BIO 111, 112 or SCI 170, 171; BIO 113, 114 or SCI 172,173; PHY 101/102 or PHY 111/114 or concurrent. 2 credits lecture, 1 credit lab. Cr 3.

SPM 385 Practicum I
This introductory field experience provides opportunity for practical application of knowledge gained through prior coursework in exercise science. The student will assist in the leadership of a wide variety of university-based and off-campus programs, with special emphasis on either personal training experiences or group exercise instruction. Prerequisites: EXS major, Junior level standing, SPM 260. Cr 3.

SPM 395 Practicum II
Building upon experiences gained from Practicum I, the student continues assisting in the leadership of university-based and off-campus programs, with additional experience in best business practices. Prerequisites: EXS major, Junior level standing, SPM 385. Cr 3.

SPM 398 Independent Study
This course is intended to provide majors in the Department of Exercise, Health, and Sport Sciences with an opportunity to pursue a project independently. Students should select a faculty advisor and develop a course proposal with their advisor. A final written paper is required. Prerequisites: ALT, EXS, or HLS major; Junior level standing; instructor permission required. Cr 1-3.

SPM 410 Athletic Training Principles III
This is an advanced study of principles for the prevention, examination, treatment and reconditioning of physical activity injuries. General medical concepts are also discussed. Lecture and laboratory competencies prepare students for supervised clinical experiences. Prerequisites: ALT major; SPM 265, 270, 310; BIO 111, 112 or SCI 170, 171; BIO 113, 114 or SCI 172,173. 2 credits lecture, 1 credit lab. Cr 3.

SPM 430 Exercise Testing, Assessment, and Prescription
This course focuses on knowledge and skills necessary for assessing health-related components of physical fitness. The course will also focus on prescription and design of programs to develop health-related fitness which will be applied in the laboratory setting. Prerequisites: ALT or EXS major; SPM 330. 2 credits lecture, 1 credit lab. Cr 3.

SPM 431 Advanced Exercise Physiology
An advanced study of the whole-body and cellular responses and adaptations to exercise related to human performance limitations, training effects, and health related benefits. Emphasis is on human bioenergetics, metabolism, cardiovascular structure and function, and cardiopulmonary
SPM 440 Manual Therapy
This course will take a detailed approach into the principles, theories, and evidence concerning the use of manual therapy for the treatment of musculoskeletal injuries. Students will be taught and asked to demonstrate specific skills and techniques that enhance efficient and effective treatment of a wide range of clinical presentations pertaining to the spine and extremities using multiple manual therapy strategies. Prerequisites: ALT major; SPM 230, 302, 325, 330, 340, 371, 381; SPM 352, 430 or concurrent. Cr 3.

SPM 450 Exercise for Special Populations
The focus of this course is on exercise programming guidelines and recommendations for a variety of special populations that includes but is not limited to heart disease, diabetes, high blood pressure, obesity, the elderly and pediatric conditions. Prerequisites: ALT or EXS major; SPM 430 or concurrent. Cr 3.

SPM 470 Athletic Training Clinic IV
Completion of a minimum of 225, and a maximum of 275 clinical hours applying proficiency, knowledge, and skills in traditional athletic training and general medical (up to 15 clinical hours) settings. A minimum of 50, and a maximum of 75 traditional setting hours will be completed during the month of August within an athletic pre-season venue. The fourth clinical course for students enrolled in the athletic training major. Prerequisites: ALT major; SPM 230, 302, 325, 330, 340, 371, 381; SPM 352, 430 or concurrent. Cr 3.

SPM 480 Organization and Administration of Athletic Training
Administrative components of an athletic training program. Facility design; supply ordering, budget and inventory; insurance, personnel and athletic training educational considerations. Prerequisites: ALT major, SPM 230, 302, 325, 330, 340, 371, 381; SPM 352, 430 or concurrent. Cr 3.

SPM 481 Fitness Facility Management
An introduction to the management and operation of health fitness facilities. Knowledge and skills needed to plan, lead, manage and evaluate various health fitness programs will be discussed. Prerequisites: senior level EXS major; BUS 200 or BUS 260 or EYE 125; SPM 350. Cr 3.

Certificate in Gerontology

Description
America’s aging demographics are increasing the demand for professionals with the knowledge and skills to meet the health, psychological, social, and spiritual needs of older adults. Whether students are currently working with older adults or interested in the health and human services profession, the [Online Certificate Program in Gerontology](#) will develop capacity to serve this clinically complex population. The program is based on multidisciplinary competencies recommended by the [Partnership for Health in Aging](#).

Program Requirements
The minimum number of credits required for this certificate: 15. These courses may be taken in any sequence.

Required Courses (6 cr) - Courses are offered every year.
Elective Courses (choose 3 of the following) - These courses may vary each year.

- GRN 300 Partnering with Family Caregivers
- GRN 315 Rehabilitation Services for Older Adult
- GRN 318 Adult Development and Aging
- GRN 390 Evaluation and Assessment of Older Adults
- HRD 312 The Spiritual Challenges and Opportunities of Aging
- SWO 375 Gender and Aging

The program recommends that students have junior or senior status or some college experience if they are experienced professionals. The individual courses require that all students have taken a college level writing course and at least one course in either psychology or sociology. Students should be prepared for a rigorous academic experience as all courses are upper level and the 7-week format is intensive.

Admission Information

Students who have questions or are interested in learning more about the Gerontology certificate should contact the Gerontology Certificate Director.

Students who are not currently USM students who are interested in taking a class should contact an Admissions Counselor.
Linguistics Overview

Chair of the Department: Dana McDaniel
Professors: McDaniel, Shepard-Kegl; Assistant Professors: Heil, 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, from education to computer science.

The linguistics major consists of courses designed to foster a deep understanding of human natural language, including an appreciation of the structure and organization of natural languages, the variety of natural languages, the commonalities that underlie the vast apparent differences among languages, the processes of language acquisition in children, the psychological and neurological bases of language use, and the form and significance of social variation in language.

Beyond this intellectual foundation, students have four options. They can major in general linguistics or they can choose one of three concentrations: ASL/English Interpreting, ASL Linguistics, or Speech and Language Science. These options are designed to meet the needs of four specific categories of student. The ASL/English Interpreting Concentration is intended for students who wish to eventually become nationally certified ASL/English interpreters. The ASL Linguistics Concentration is for students interested in the ASL language, Deaf culture, and linguistics who plan to pursue a career other than interpreting that involves deafness and the Deaf community. The Speech and Language Science Concentration is designed for students who wish to pursue a career in speech-language pathology, audiology, or related disciplines. The general linguistics major serves students who have an interest in language as an aspect of human nature or who wish to pursue graduate education in linguistics or language-related areas.

The goals of the linguistics major are 1) to help each student develop an understanding of the nature of natural language, 2) to help each student develop a foundation of more specialized expertise relevant to the student's career goals, and 3) to help each student compile a record of achievement that will facilitate the student's search for employment or further education.

BA in Linguistics

Description

The general linguistics major serves students who have an interest in language as an aspect of human nature or who wish to pursue graduate education in language-related areas. For more information, click here.

Program Requirements

Required Coursework

LIN 185 Language, Mind, and Society: An Introduction to Linguistics
LIN 311 Phonetics
LIN 312 Phonology and Morphology
LIN 313 Syntax
LIN 314 Semantics
LIN 315 Field Methods
LIN 490 Introduction to Language Research

One three-credit LIN course (excluding courses focused on interpreting and excluding LIN 498) or one of the language-based courses offered by the English Department (ENG 230, 330, 331, 332, 336, 337, 338, 431)

One 300- or 400-level three-credit LIN course (excluding courses focused on interpreting and excluding LIN 498) or ASL 416
Two three-credit 400-level LIN courses (excluding courses focused on interpreting and excluding LIN 498)

Four semesters of language study (number of credits varies depending on courses)

Total number of credits: 45 credits minimum (the number varies depending on the choice of language courses)

Note on Language Component

Students pursuing the general linguistics major must complete four semesters of a language or languages other than their native language. Students may choose to take four semesters of the same language or to divide the four courses among two or more different languages. The language courses may be waived on a case-by-case basis for students who demonstrate the equivalent degree of competency in a language or languages. In such cases, students replace the language course credits with other linguistics courses (or possibly with linguistics-related courses in other areas). The substitutions are made in consultation with the student's advisor.

Note on grade requirement for LIN 185

Students must receive a grade of B or higher in LIN 185 before enrolling in certain upper-level LIN courses, including LIN 311-314. LIN 185 may be repeated at most one time. (Students for whom American Sign Language is their first language may consult with the department about alternative pathways for satisfying this requirement.)

Honors in Linguistics

Linguistics majors who do outstanding work in the major can graduate with honors in linguistics. The requirements for Honors for students majoring in general linguistics are the following:

- Achieve a G.P.A. of at least 3.7 in LIN courses.
- Earn a grade of B or higher in all language courses that count toward the major.
- Submit a portfolio of linguistic activities approved by the Department. (The portfolio documents linguistic activities outside of required coursework. Examples of such activities include independent study and research internship courses, tutoring, and attendance at linguistics conferences. Students who plan to submit a portfolio should discuss the details with their advisor.)
- Complete a senior thesis (LIN 498) and earn a grade of A.

Notes on General Education Requirements

In addition to completing a major, students must satisfy USM's General Education (Core Curriculum) requirements and earn a total of at least 120 credits to graduate. The following information outlines General Education requirements that overlap with the major in general Linguistics or General Education courses recommended for students majoring in general Linguistics.

Quantitative Reasoning: Students should fulfill this requirement by taking a statistics course (MAT 120 or PSY 201). One of the LIN requirements, LIN 490, has a statistics course as a prerequisite.

Cultural Interpretation: Second level (and higher) language courses fulfill this requirement, so the language requirement for the major (as long as it includes a course beyond the first level) will also fulfill this General Education requirement.

Socio-Cultural Analysis: LIN 185 meets this requirement.

Science Exploration: LIN 185 meets this requirement if LIN 186 (the one-credit lab associated with LIN 185) is taken as well.

Diversity: LIN 185 also meets this requirement (and can be used to fulfill both requirements).

Capstone: LIN 490 is a capstone course.

Three linguistics courses that are not required for the major fulfill General Education requirements:

International: LIN 112 The Birth of a Language

Diversity and Socio-Cultural Analysis: LIN 203 Introduction to the Deaf World (Note that this course is required for the Deaf Studies minor.)

Ethical Inquiry: LIN 410 Ethical Decision Making in ASL/English Interpreting (Note: Students who have not taken ASL or interpreting courses can request permission from the Department to take this course, if they demonstrate experience in an area involving ethical reasoning.)

Recommended Course Sequence

Suggested four-year plan for general Linguistics Majors

USM Undergraduate Academic Catalog 2017-18
There are many possible paths through the major. The listings below are suggestions that may or may not be appropriate for individual students. Courses do not have to be taken in the order shown here so long as the prerequisites for each course are met before it is taken.

See the course list for course prerequisites. Note especially that students must earn a grade of B or higher in LIN 185 before enrolling in LIN 311, 312, 313, 314, or 315, and that LIN 185 may be repeated at most one time.

Note that many of the suggested semester schedules listed here do not make up a full course load. These semesters would need to include general education courses, electives, a minor, or possibly a second major.

- Fall 1: Language 1
- Spring 1: LIN 185, MAT 120 (or PSY 201), Language 2
- Fall 2: LIN 313, LIN 314, Language 3
- Spring 2: LIN 312, LIN 315, Language 4
- Fall 3: LIN 1xx/2xx/3xx/4xx, LIN 311
- Spring 3: LIN 490, LIN 4xx
- Fall 4: LIN 3xx/4xx, LIN 498 thesis (if doing honors)
- Spring 4: LIN 4xx

**BA in Linguistics - ASL Linguistics Concentration**

**Description**

The ASL Linguistics Concentration is intended for students interested in the ASL language, Deaf studies, and linguistics, and who are planning career paths other than interpreting that involve Deaf people and the Deaf community. For more information, click here.

**Program Requirements**

**Required Coursework**

LIN 105 Contrastive Analysis: ASL and English  
LIN 185 Language, Mind, and Society: An Introduction to Linguistics  
LIN 203 Introduction to the Deaf World  
LIN 310 Signs of Language in the Brain  
LIN 313 Syntax  
ASL 201 Intermediate American Sign Language I  
ASL 202 Intermediate American Sign Language II  
ASL 401 Advanced American Sign Language I  
ASL 402 Advanced American Sign Language II  
ASL 415 ASL Literature in ASL, or ASL 417 Deaf Art, Film, and Theatre in ASL  
ASL 416 ASL Linguistics in ASL

One three-credit 400-level LIN course (excluding courses focused on interpreting and excluding LIN 498)

Total number of credits: 40

**Note on Language Component**

Students pursuing the ASL Linguistics Concentration must have taken two semesters of ASL (101-102) or have attained a level of proficiency equivalent to two semesters. These courses (or the equivalent) do not count as credits toward the major, but are prerequisites to the upper-level ASL courses.

**Note on grade requirement for LIN 185**

Students must receive a grade of B or higher in LIN 185 before enrolling in certain upper-level LIN courses, including LIN 313. LIN 185 may be repeated at most one time. (Students for whom American Sign Language is their first language may consult with the department about alternative pathways for satisfying this requirement.)

**Honors for ASL Linguistics Concentration**
Linguistics majors who do outstanding work in the major can graduate with honors in linguistics. The requirements for Honors for students majoring in the ASL Linguistics Concentration are the following:

- Achieve a G.P.A. of at least 3.7 in LIN and ASL courses
- Complete the following additional LIN courses with a grade of B or higher: LIN 490, 498

**Notes on General Education Requirements**

In addition to completing a major, students must satisfy USM's General Education (Core Curriculum) requirements and earn a total of at least 120 credits to graduate. The following information outlines General Education requirements that overlap with the major in Linguistics with a Concentration in ASL Linguistics or General Education courses recommended for students majoring in this concentration.

**Quantitative Reasoning:** One of the requirements for Honors in Linguistics is LIN 490. This course has a statistics course (MAT 120 or PSY 201) as a prerequisite. Therefore, students should take a statistics course to meet this requirement if they are considering pursuing Honors in Linguistics. If not, students can take any course in the Quantitative Reasoning category.

**Cultural Interpretation:** Each of ASL 102, 201, and 202 fulfills this General Education requirement.

**Socio-Cultural Analysis:** LIN 185 and LIN 203 meet this requirement.

**Science Exploration:** LIN 185 meets this requirement if LIN 186 (the one-credit lab associated with LIN 185) is taken as well.

**Diversity:** LIN 185 and LIN 203 also meet this requirement (and either can be used to fulfill both requirements).

**Capstone:** ASL 416 is a capstone course.

Two linguistics courses that are not required for the major fulfill General Education requirements:

**International:** LIN 112 The Birth of a Language

**Ethical Inquiry:** LIN 410 Ethical Decision Making in ASL/English Interpreting (Note: Students who have not taken ASL or interpreting courses can request permission from the Department to take this course, if they demonstrate experience in an area involving ethical reasoning.)

**Recommended Course Sequence**

**Suggested four-year plan for Linguistics Majors, ASL Linguistics Concentration**

There are many possible paths through the major. The listings below are suggestions that may or may not be appropriate for individual students. Courses do not have to be taken in the order shown here so long as the prerequisites for each course are met before it is taken.

See the course list for course prerequisites. Note especially that students must earn a grade of B or higher in LIN 185 before enrolling in LIN 311, 312, 313, 314 or 315, and that LIN 185 may be repeated at most one time.

Note that many of the suggested semester schedules listed here do not make up a full course load. These semesters would need to include general education courses, electives, a minor, or possibly a second major.

- Fall 1: LIN 105, ASL 101
- Spring 1: ASL 102, LIN 203, LIN 185
- Fall 2: LIN 310, ASL 201
- Spring 2: ASL 202
- Fall 3: ASL 401, LIN 313
- Spring 3: ASL 402, ASL 415, ASL 417
- Fall 4: ASL 416
- Spring 4: LIN 4XX

**BA in Linguistics - ASL/English Interpreting Concentration**
Description

The **ASL/English Interpreting Concentration** is intended for students who wish to become nationally certified ASL/English interpreters. For more information, click [here](#).

Program Requirements

**Required Coursework**

LIN 105 Contrastive Analysis: ASL and English  
LIN 185 Language, Mind, and Society: An Introduction to Linguistics  
LIN 310 Signs of Language in the Brain  
LIN 313 Syntax  
LIN 422 A Cognitive Perspective on Syntax  
LIN 331 ASL/English Interpreting  
LIN 332 Consecutive Interpreting and Deaf/Hearing Interpreter Teams  
LIN 333 Interpreting: Source Language ASL  
LIN 334 Interpreting: Source Language English  
LIN 410 Ethical Decision Making in ASL/English Interpreting  
ASL 401 Advanced American Sign Language I  
ASL 402 Advanced American Sign Language II  
ASL 415 ASL Literature in ASL, or ASL 416 ASL Linguistics in ASL, or ASL 417 Deaf Art, Film, and Theatre in ASL  
One of LIN 405 Sight Translation, 413 Supervised Mentoring, or 498 Thesis; or a combination of LIN 425 (Topics) and LIN 401/402/403/404 (Foundations) adding up to a total of at least 6 credits  
LIN 435 Advanced Interpreting and Practicum I (6 cr)

Total number of credits: 50 or 53 (depending on choice of 405/413/498 or 6 credits of LIN 401/402/403/404/425)

**Note on Language Component**

Students pursuing the English ASL/Interpreting Concentration must have taken four semesters of ASL (101-202) or have attained a level of proficiency equivalent to four semesters. These courses (or the equivalent) do not count as credits toward the major, but are prerequisites to the interpreting courses and upper-level ASL courses.

**Note on grade requirement for LIN 185**

Students must receive a grade of B or higher in LIN 185 before enrolling in certain upper-level LIN courses, including LIN 313. LIN 185 may be repeated at most one time. (Students for whom American Sign Language is their first language may consult with the department about alternative pathways for satisfying this requirement.)

**Honors for ASL/English Interpreting Concentration**

Linguistics majors who do outstanding work in the major can graduate with honors in linguistics. The requirements for Honors for students majoring in the ASL/English Interpreting Concentration are the following:

- Achieve a G.P.A. of at least 3.7 in LIN and ASL courses
- Complete the following additional LIN courses with a grade of B or higher: LIN 490, 498

**Notes on General Education Requirements**

In addition to completing a major, students must satisfy USM's General Education (Core Curriculum) requirements and earn a total of at least 120 credits to graduate. The following information outlines General Education requirements that overlap with the major in Linguistics with a Concentration in ASL/English Interpreting or General Education courses recommended for students majoring in this concentration.

Quantitative Reasoning: One of the requirements for Honors in Linguistics is LIN 490. This course has a statistics course (MAT 120 or PSY 201) as a prerequisite. Therefore, students should take a statistics course to meet this requirement if they are considering pursuing Honors in Linguistics. If not, students can take any course in the Quantitative Reasoning category.

Cultural Interpretation: Each of ASL 102, 201, and 202 fulfills this General Education requirement.

Socio-Cultural Analysis: LIN 185 meets this requirement.

Science Exploration: LIN 185 meets this requirement if LIN 186 (the one-credit lab associated with LIN 185) is taken as well.
Diversity: LIN 185 also meets this requirement (and can be used to fulfill both requirements).

Ethical Inquiry: LIN 410 meets this requirement.

Capstone: LIN 435 is a capstone course.

Two linguistics courses that are not required for the major fulfill General Education requirements:

International: LIN 112 The Birth of a Language

Diversity and Socio-Cultural Analysis: LIN 203 Introduction to the Deaf World (Note that this course is required for the Deaf Studies minor.)

**Recommended Course Sequence**

Suggested four-year plan for Linguistics Majors, ASL/English Interpreting Concentration

There are many possible paths through the major. The listings below are suggestions that may or may not be appropriate for individual students. Courses do not have to be taken in the order shown here so long as the prerequisites for each course are met before it is taken.

See the course list for course prerequisites. Note especially that students must earn a grade of B or higher in LIN 185 before enrolling in LIN 311, 312, 313, 314 or 315, and that LIN 185 may be repeated at most one time.

Note that many of the suggested semester schedules listed here do not make up a full course load. These semesters would need to include general education courses, electives, a minor, or possibly a second major.

(Course in italics is required for Deaf Studies Minor)

- Fall 1: LIN 105, ASL 101
- Spring 1: ASL 102, LIN 203, LIN 185
- Fall 2: LIN 310, LIN 313, ASL 201
- Spring 2: LIN 422, ASL 202, LIN 331
- Fall 3: ASL 401, LIN 332, LIN 333
- Spring 3: ASL 402, LIN 415, LIN 417
- Fall 4: LIN 334
- Spring 4: LIN 435 (six credits), LIN 410

The six credits of LIN 425 (or 401/402/403/404) can fit into various places.

**BA in Linguistics - Speech and Language Science Concentration**

**Description**

The Speech and Language Science Concentration is designed for students who wish to pursue a career in speech-language pathology, audiology, or related disciplines. For more information, click [here](#).

**Program Requirements**

**Required Coursework**

- LIN 185 Language, Mind, and Society: An Introduction to Linguistics
- LIN 201 Language Acquisition
- LIN 211 Anatomy and Physiology of the Speech and Hearing Mechanism
- LIN 212 Speech Science
- LIN 213 Introduction to Audiology
- LIN 310 Signs of Language in the Brain
- LIN 311 Phonetics
- LIN 312 Phonology and Morphology
- LIN 313 Syntax
LIN 314 Semantics
LIN 315 Field Methods
LIN 490 Introduction to Language Research

One three-credit 400-level LIN courses (excluding courses focused on interpreting and excluding LIN 498)

Four semesters of language study (number of credits varies depending on courses)

Total number of credits: 51 credits minimum (the number varies depending on the choice of language courses)

Note on Language Component

Students pursuing the Speech and Language Science Concentration must complete four semesters of a language or languages other than their native language. Students may choose to take four semesters of the same language or to divide the four courses among two or more different languages. The language courses may be waived on a case-by-case basis for students who demonstrate the equivalent degree of competency in a language or languages. In such cases, students replace the language course credits with other linguistics courses (or possibly with linguistics-related courses in other areas). The substitutions are made in consultation with the student's advisor.

Note on grade requirement for LIN 185

Students must receive a grade of B or higher in LIN 185 before enrolling in certain upper-level LIN courses, including LIN 311-314. LIN 185 may be repeated at most one time. (Students for whom American Sign Language is their first language may consult with the department about alternative pathways for satisfying this requirement.)

Honors for Speech and Language Concentration

Linguistics majors who do outstanding work in the major can graduate with honors in linguistics. The requirements for Honors for students majoring in the Speech and Language Science Concentration are the following:

- Achieve a G.P.A. of at least 3.7 in LIN courses
- Earn a grade of B or higher in all language courses that count toward the major
- Submit a portfolio of linguistic activities approved by the Department. (The portfolio documents linguistic activities outside of required coursework. Examples of such activities include independent study and research internship courses, tutoring, and attendance at linguistics conferences. Students who plan to submit a portfolio should discuss the details with their advisor.)
- Complete a senior thesis (LIN 498) and earn a grade of A.

Notes on General Education Requirements

In addition to completing a major, students must satisfy USM's General Education (Core Curriculum) requirements and earn a total of at least 120 credits to graduate. The following information outlines General Education requirements that overlap with the major in Linguistics with a Concentration in Speech and Language Science or General Education courses recommended for students majoring this concentration.

Quantitative Reasoning: Students should fulfill this requirement by taking a statistics course (MAT 120 or PSY 201). One of the LIN requirements, LIN 490, has a statistics course as a prerequisite.

Cultural Interpretation: Second level (and higher) language courses fulfill this requirement, so the language requirement for the major (as long as it includes a course beyond the first level) will also fulfill this General Education requirement.

Socio-Cultural Analysis: LIN 185 meets this requirement.

Science Exploration: The department recommends that this requirement be fulfilled with a biology course, because biology is a prerequisite for many graduate programs in speech/language pathology and audiology. Note that LIN 185 meets this requirement if LIN 186 (the one-credit lab associated with LIN 185) is taken as well.

Diversity: LIN 185 also meets this requirement (and can be used to fulfill both requirements).

Capstone: LIN 490 is a capstone course.

Three linguistics courses that are not required for the major fulfill General Education requirements:

International: LIN 112 The Birth of a Language

Diversity and Socio-Cultural Analysis: LIN 203 Introduction to the Deaf World (Note that this course is required for the Deaf Studies minor.)

Ethical Inquiry: LIN 410 Ethical Decision Making in ASL/English Interpreting (Note: Students who have not taken ASL or interpreting courses can request permission from the Department to take this course, if they demonstrate experience in an area involving ethical reasoning.)
Notes on Requirements for Graduate Programs

Graduate programs in speech/language pathology and audiology have undergraduate prerequisites. Not having the prerequisites does not prevent a student from being admitted to a program (nor does having the prerequisites ensure admittance). Generally, a student starting a graduate program without the prerequisites needs to do undergraduate course work at the beginning of the graduate program. Due to the extra expense and time this takes, it is best to incorporate as many prerequisites as possible into the undergraduate curriculum. Each graduate program has its own set of prerequisites. The department recommends that students investigate these prerequisites for graduate programs in which they are interested. Here is a list of courses that are common prerequisites.

The Speech and Language Science Concentration includes the following requirements that are often prerequisites for graduate programs: LIN 201, 211, 212, 213, 310, 311.

Many graduate programs require a biology course, as noted above. Some also require physics. The department recommends that students take both biology and physics. The Science Exploration course for General Education needs to include a lab, but the graduate programs do not require a lab. Students could therefore take one of the science courses with a lab and the other without it.

Many graduate programs require a statistics course (which is also a prerequisite for LIN 490 and meets the Quantitative Reasoning General Education requirement, as noted above).

Many graduate programs require a psychology course.

Many graduate programs require 25 hours of observation in a clinic (observing an SLP). Students can do these hours on their own or as part of a one- to three-credit independent study (LIN 398).

Recommended Course Sequence

Suggested four-year plan for Linguistics Majors, Speech and Language Science Concentration

There are many possible paths through the major. The listings below are suggestions that may or may not be appropriate for individual students. Courses do not have to be taken in the order shown here so long as the prerequisites for each course are met before it is taken.

See the course list for course prerequisites. Note especially that students must earn a grade of B or higher in LIN 185 before enrolling in LIN 311, 312, 313, 314 or 315, and that LIN 185 may be repeated at most one time.

Note that many of the suggested semester schedules listed here do not make up a full course load. These semesters would need to include general education courses, electives, a minor, or possibly a second major.

(Courses in italics are required by many grad schools, but not for the major)

- Fall 1: Language 1
- Spring 1: LIN 185, PSY 101, MAT 120 (or PSY 201), Language 2
- Fall 2: LIN 201, LIN 211, LIN 311, LIN 313, Language 3
- Spring 2: LIN 312, LIN 315, Language 4, Biology
- Fall 3: LIN 213, LIN 310, LIN 313, LIN 314
- Spring 3: LIN 4xx (usually LIN 421 or 422)
- Fall 4: Physics
- Spring 4: LIN 490, LIN 498 thesis (if doing Honors)

Minor in Deaf Studies

Description

The Deaf Studies minor offers training in American Sign Language and knowledge of the American Deaf Community. These skills can enhance a student's undergraduate education and may be applied to various settings such as education, human services, social work, health care, and counseling. The Deaf Studies minor also will provide specific ASL skills necessary to apply to graduate programs such as Deaf Education, ASL linguistics, and rehabilitation counseling.

Program Requirements
Minimum number of credits required for the minor: 22

**Required Coursework**

Note: Some of these courses have prerequisites -- see course list.

ASL 201 Intermediate American Sign Language I  
ASL 202 Intermediate American Sign Language II  
ASL 401 Advanced American Sign Language I  
ASL 402 Advanced American Sign Language II  
LIN 203 Introduction to the Deaf World

One of the following courses:  
ASL 415 ASL Literature in ASL  
ASL 416 ASL Linguistics in ASL  
ASL 417 Deaf Art, Film, and Theatre in ASL  
LIN 105 Contrastive Analysis: ASL and English  
LIN 310 Signs of Language in the Brain  
LIN 315 Field Methods  
LIN 395 Research Internship

Note: If students major in Linguistics with a Concentration in ASL Linguistics, students may complete the Deaf Studies minor, but the requirements for the minor differ to avoid too much overlap with the major. In addition to the five courses listed under “Required Coursework” above, students need to take nine credits from among the following courses: ASL 415 or 417 (whichever one does not count toward the major), LIN 112, LIN 331, LIN 401, LIN 402, LIN 403, LIN 404.

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**Minor in Linguistics**

**Description**

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, from education to computer science.

**Program Requirements**

Minimum number of credits required for the minor: 18

**Required Coursework**

Note: Some of these courses have prerequisites -- see course list.

LIN 185 Language, Mind, and Society: An Introduction to Linguistics

Three of the following courses:  
LIN 310 Signs of Language in the Brain  
LIN 311 Phonetics  
LIN 312 Phonology and Morphology  
LIN 313 Syntax  
LIN 314 Semantics  
LIN 315 Field Methods

One three-credit LIN course (excluding courses focused on interpreting) or ASL 416

One 400-level three-credit LIN course (excluding courses focused on interpreting)
Course Descriptions

Department of Linguistics Course Descriptions

- **Linguistics Courses**
- **Language Courses**
  - American Sign Language (ASL)
  - Arabic
  - Chinese
  - French
  - German
  - Italian
  - Spanish

**Language Courses**

**LIN 105 Contrastive Analysis: ASL and English**
This course examines the major linguistic features of ASL and English. Students will gain an understanding of the basic similarities and differences in morphology, phonology, syntax, semantics and pragmatics, as well as the values, beliefs, and norms of the Deaf and non-Deaf communities. Some knowledge of ASL is recommended, but not required. Offered every fall. Cr 3.

**LIN 112 The Birth of a Language**
The goal of this course is to explore the many factors that impact the use, development, and emergence of language by focusing on one unique case of language emergence in Nicaragua and the social and political context in which it arose. The emergence of Nicaraguan Sign Language is the first case in which any language, spoken or signed, has been documented in the process of its emergence. Students will engage in critical thinking and exploration of controversial debates concerning the nature of language as a human trait, the evolution/emergence of language in the human species, and the historical factors that converge to set the stage for the emergence of a language. The course is highly interdisciplinary, relating the linguistic concepts to history, psychology, political science, philosophy (particularly ethics), neuroscience, Latin American Studies, and Spanish. No prior knowledge of a signed language is required. Offered once a year, semester varies, sometimes summer. Cr 3.

**LIN 185 Language, Mind, and Society: An Introduction to Linguistics**
This course approaches language as a biological and psychological phenomenon central to an adequate understanding of human nature. It provides an overview of phonetics, phonology, morphology, syntax, and semantics. It deals with linguistic questions concerning language variation, as well as 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 children, how it deteriorates under the influence of disease and injury, how it evolved in the history of the species, and how it fundamentally shapes modern life. The course does not assume any background in linguistics or language study. Linguistics majors may repeat this course at most one time. In order for this course to satisfy the Science Exploration requirement, students must also take the corresponding laboratory course, LIN 186. Offered every fall and spring. Cr 3.

**LIN 186 Introduction to Linguistics: Lab**
Laboratory studies to complement and illustrate the concepts presented in LIN 185. Prerequisite: Prior or concurrent registration in LIN 185. Offered every fall and spring. Cr 1.

**LIN 201 Language Acquisition**
An introductory overview of the phenomena of language and communication development. The course covers the acquisition of phonology, morphology, syntax, and the lexicon, as well as the development of communicative competence. Each of these areas will be discussed with respect to production, comprehension, and knowledge. Prerequisite: LIN 185. Cr 3.

**LIN 203 Introduction to the Deaf World**
A Deaf instructor presents the culture and history of Deaf communities from a national and international perspective. Deaf communities are examined as cultural and linguistic minorities, with all the tensions and conflicts that arise within such minority groups and with the stresses that arise when outsiders interact with such minority groups. Some exposure to ASL is recommended, but not required. Offered every spring. Cr 3.

**LIN 211 Anatomy and Physiology of the Speech and Hearing Mechanism**
The basic principles of the structure and function of the neuromuscular mechanism necessary for spoken language will be presented. These include six major topics: respiration, phonation, articulation, resonance, the nervous system, and the auditory system. Mastering these fundamentals will enable students to better understand normal and pathological processes involved in the production and reception of speech. Offered every two years in fall. Cr 3.
LIN 212 Speech Science
This course covers the acoustical, articulatory, perceptual, and physiological aspects of speech. It considers the acoustic contributions of the movements and postures of various articulators. It will also examine the neurophysiology of speech, including timing, control, and interactions among articulators. Offered every two years in spring. Cr 3.

LIN 213 Introduction to Audiology
This course introduces the anatomy, physiology, and function of the auditory system, focusing on those central auditory nervous system functions, including cognitive functions, that are most relevant to audiologists and speech/language pathologists. This course provides a foundation for understanding aural rehabilitation and diagnosis of auditory pathology, as well as a practical introduction to the measurement and assessment of auditory function. Offered every two years in fall. Cr 3.

LIN 214 Signs of Language in the Brain
This course looks at language as a capacity of the human brain. Models of language breakdown for spoken languages are reviewed, and the remainder of the course focuses upon signed language aphasia, the effects of Parkinson's disease on articulation and motor planning, and how spatial and attentional deficits caused by right hemisphere damage affect the processing and production of signing. Prerequisite: LIN 185. Offered every fall. Cr 3.

LIN 215 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: grade of B or higher in LIN 185. Offered every two years in fall. Cr 3.

LIN 216 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: grade of B or higher in LIN 185. Offered every two years in spring. Cr 3.

LIN 217 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: grade of B or higher in LIN 185. Offered every fall. Cr 3.

LIN 218 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: grade of B or higher in LIN 185. Offered every two years in fall. Cr 3.

LIN 219 Field Methods
Students learn to use a variety of elicitation and field methods techniques to explore the linguistic structure of a language that is foreign to them. They work with a native signer or speaker and apply their knowledge of linguistics to a specific aspect of the grammar of the language. Prerequisite: LIN 312 or 313. Offered every two years in spring. Cr 3.

LIN 220 ASL/English Interpreting
This course offers the beginning interpreting student an introduction to the field of interpreting, its code of ethics, and several models and
approaches to the interpreting process. Students will become familiar with the complex processing required to provide a nuanced interpretation through learning a form of text analysis called discourse mapping. Prerequisites: grade of B or higher in ASL 202 or equivalent; or grade of B or higher in ASL 201 or equivalent and ASL 202 concurrently; or permission. Offered every spring. Cr 3.

**LIN 332 Consecutive Interpreting and Deaf/Hearing Interpreter Teams**
This course covers the mechanics of the consecutive interpreting process, as well as hands-on training in the consecutive method for both Deaf and hearing interpreters. Emphasis is placed upon teaming, particularly teaming of Deaf and hearing interpreters. Consecutive interpreting will be taught in the context of a variety of typical interpreting situations as well as situations involving special populations. Demand-Control Schema is introduced and explored as a means of process management. May be repeated once for credit with permission of instructor. Prerequisite: LIN 331 and rating of 2 or better on the ASLA or ASLPI. May be repeated one time for credit. Offered every fall. Cr 3.

**LIN 333 Interpreting: Source Language ASL**
Students focus on interpreting from ASL into English with emphasis on word choice, register, and affect. The interpreting process is dissected, examined with emphasis on the Integrated Model of Interpreting (IMI), and practiced. May be repeated once for credit with permission of instructor. Prerequisite: LIN 331 and rating of 2 or better on the ASLA or ASLPI. May be repeated one time for credit. Offered every fall. Cr 3.

**LIN 334 Interpreting: Source Language English**
Interpreting students study both formal translation and interpretation from English into ASL. Emphasis is placed upon appropriate sign choice, register, and affect. The interpreting process is dissected, examined, and practiced. Course may be repeated once for credit with permission of instructor. Prerequisite: LIN 331 and rating of 2 or better on the ASLA or ASLPI. May be repeated one time for credit. Offered every fall. Cr 3.

**LIN 336 Observational Internship**
Interpreting students will be supervised in a 60-hour internship where they observe working interpreters or specialized settings (legal, medical, educational, etc.) and journal their observations. They will analyze these observations using Demand-Control Schema and will present at least one formal case presentation during the semester. May be taken more than once for a maximum of 6 credits. Prerequisite: LIN 331. Offered fall and spring. Cr 3.

**LIN 394 Teaching Internship**
Students will work closely with a faculty member on a course. They will be involved in all aspects of the course that don't involve grading, including class preparation and tutoring. Students should contact the Department chair for details. May be taken more than once for a maximum of six credits. Grade: Pass/fail. Prerequisite: permission of instructor. Offered fall and spring. Cr 3.

**LIN 395 Research Internship**
Students will work closely with a faculty member on a research project. They will be involved in experimental design, data collection, data entry, and data analysis, and will attend regularly scheduled lab meetings. Enrollment in LIN 395 will depend on needs determined by current research projects. Selection is made by the faculty. Students should contact the Department chair for details. May be taken more than once for a maximum of six credits. Prerequisite: permission of instructor. Offered fall and spring. Cr 3.

**LIN 398 Independent Study**
In preparation for this course, the student selects a topic in linguistics that is substantially different from that of any regular course and finds an instructor to serve as faculty mentor. May be repeated for credit. Prerequisite: permission of instructor. Offered fall and spring. Cr var.

**LIN 401 Foundations of Interpreting I**
The first module of the Foundations of Interpreting Series introduces the Integrated Model of Interpreting (IMI). Participants learn what constitutes a message and how goal, affect, culture, and sociolinguistic factors influence understanding of that message. Graduated ASL texts and collaborative analysis protocols allow students to develop tools for understanding and improving their interpretation processes and developing the language necessary to discuss the interpreting task. Brief source texts on topics related to the Deaf community are presented live in ASL. Students are encouraged to allow a consecutive mode that allows for extended processing time. Prerequisite: ASL 201 or permission of instructor. Offered every fall and spring. Cr 1.

**LIN 402 Foundations of Interpreting II**
The second module of the Foundations of Interpreting Series continues the development of the Integrated Model of Interpreting (IMI). Consecutive interpreting will be used for all practice activities. Analysis criteria are expanded to include register and perspective. Focus is placed upon decision-making regarding appropriate retention versus release of form. Activities are expanded to include back translation exercises and collaborative construction of target texts. Brief source texts in English cover highly familiar topics. Prerequisite: LIN 401. Offered every fall and spring. Cr 1.

**LIN 403 Foundations of Interpreting III**
The third module of the Foundations of Interpreting Series continues the development of the Integrated Model of Interpreting (IMI). Consecutive interpreting will be used for practice activities with a gradual reduction of processing time. Source texts in ASL are monologues, covering a variety of non-technical subjects. Focus is placed upon decision-making regarding the interpretation of formal and consultative register. Students collaborate to perform discourse analysis on source texts as well as to construct equivalent target messages. Prerequisite: LIN 401, LIN 402 recommended. Offered every fall and spring. Cr 1.
LIN 404 Foundations of Interpreting IV
The fourth module of the Foundations of Interpreting Series continues the development of the Integrated Model of Interpreting (IMI). Consecutive interpreting will be used for practice activities with a gradual reduction of processing time. Source texts in English are monologues, covering a variety of non-technical subjects. Focus is placed upon decision-making regarding the interpretation of formal and consultative register. Students collaborate to perform discourse analysis on source texts as well as to construct equivalent target messages. Prerequisite: LIN 402, LIN 403 recommended. Offered every fall and spring. Cr 1.

LIN 405 Sight Translation
This is a course in translation from written English to dynamic ASL. Students will examine a variety of textual materials, including business letters, government and business forms, and selected other short texts, with the goal of comprehending, abstracting, and translating these materials. Work will focus on the intent and force of the texts, as well as linguistic and cultural assumptions underlying them. Prerequisite: LIN 331. Offered irregularly, depending on demand. Cr 3.

LIN 410 Ethical Decision Making in ASL/English Interpreting
This course explores critical thinking skills regarding ethical decision making using a number of approaches within the set of models that explore “right versus right” dilemmas. Students learn to identify ethical issues, gather information, identify principles that may inform decisions, generate lists of possible decisions and examine them in terms of consequences, determine best alternatives based upon reflection and reason, make choices that direct action, and evaluate the outcomes of the actions they take. Working as a community of inquiry and practice, members of the class engage in dialogue with others examining ethical dilemmas, learning to appreciate the viewpoints of others, and broadening their perspectives. Among a variety of principles that influence ethical decision making, students examine the RID-NAD Code of Professional Conduct. They compare it with similar documents within the field of interpreting as well as codes from other fields. Prerequisites: LIN 332, 333, or 334; or with permission (for students without ASL or interpreting background who can demonstrate experience in other areas involving ethical decision making). Offered every spring. Cr 3.

LIN 413 Supervised Mentoring
Interpreting students apprentice with a program-approved mentor and submit a weekly journal entry, attend a series of skills improvement workshops and/or engage in laboratory-based research to complete 90 contact hours of interpreting-related skills improvement activities. Students attend a biweekly meeting with interpreters to address current issues and difficult situations encountered. Special arrangements will be made for mentoring partnerships at remote sites. Prerequisites: LIN 333 and 334. 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 313. Offered every two years in spring. Cr 3.

LIN 422 A Cognitive Perspective on Syntax
An introduction to the brain and mind processes by which language users produce and understand sentences, as well as to the mental representations these processes exploit. The course considers how syntactic structure interacts with processes of production and comprehension, as well as how users interpret from one language to another. Prerequisite: LIN 313. Offered every spring. Cr 3.

LIN 425 Special Topics in ASL/English Interpreting
This seminar centers around a single topic, for example, legal interpreting, interpreting for special populations (deaf-blind, oral, cued-speech, minimal language skills assessment and interpreting), ethical issues, medical and mental health interpreting, interpreter assessment, and interpreting the 12 steps. The course will be offered in response to student interest in a given topic and may be repeated as topics vary. Prerequisite: permission of instructor. Offered irregularly, depending on demand. Cr var.

LIN 426 Special Topics in Theoretical Linguistics
This seminar focuses on one area of theoretical linguistics, e.g. phonology, morphology, syntax, or semantics. It will offer a more in-depth and advanced discussion than is presented in the 300-level courses on these topics. The course will be offered in response to student interest in a given topic. May be repeated for credit as topics vary. Prerequisite: permission of instructor. Offered irregularly, depending on demand. Cr 3.

LIN 434 Advanced Interpreting and Research
This course requires participation in the capstone course LIN 435 but instead of practicum, the student will complete an advanced research project related to interpreting. Prerequisites: LIN 332, 333, 334, and rating of 2 or better on the ASLA or ASLPI or permission of instructor. Cr 6.

LIN 435 Advanced Interpreting and Practicum I
This capstone course requires completion of the student's professional interpreting portfolio and a 120-hour supervised practicum. Students will demonstrate competence interpreting a range of dialects and registers of ASL and English produced by both children and adults and will journal their assignments with a focus upon Demand-Control Schema, analysis of the interpreting process, and ethical considerations. Students may take this course for up to 12 credits. Each credit beyond six adds 15 hours of practicum. Prerequisites: LIN 332, 333, 334, 410 (completed or concurrent), a passing grade on the NIC Knowledge Exam, a rating of 3 or better on the ASLA or ASLPI, and permission of instructor. Offered every spring. Cr 6-12.
LIN 436 Practicum II
This course is a second 120-hour supervised practicum at a more advanced level. Students in Practicum II more likely to be placed in agency environments and as apprentices in specialized settings. Over the course of the practicum, students are expected to demonstrate increasing evidence of work-readiness. While they may eventually accept assignments for pay as deemed appropriate by their supervisors, they may not count paid hours toward practicum. All assignments will be journaled with a focus upon Demand-Control Schema, analysis of the interpreting process, and ethical considerations. Students may take this course for up to 12 credits. Each credit beyond six adds 15 hours of practicum. Prerequisites: LIN 435. Cr 6-12.

LIN 490 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 311, 312, 313, 314, and 315 (one of which may be taken concurrently), or permission of the instructor; MAT 120, PSY 201, or an equivalent course. Offered every two years in spring. Cr 3.

LIN 498 Thesis
The topic for this thesis must be selected in consultation with the student's advisor and approved by the linguistics faculty. Students will meet regularly with their advisor as they work on the project. The finished thesis must be approved by the linguistics faculty, and should ideally be completed by the end of the fall semester of the student's senior year. Prerequisites: LIN 310 or 311, LIN 312, 313, 314, and LIN 315 or 490, and approval of a project proposal. Offered fall and spring. Cr 3.

Language Courses

- American Sign Language (ASL)
- Arabic
- Chinese
- French
- German
- Italian
- Spanish

American Sign Language (ASL) Courses (back to Language Courses)

ASL 101 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 materials and other media outside of class. This course has a community interaction requirement of four hours over the semester. Offered every fall and spring. Cr 4.

ASL 102 Beginning American Sign Language II
This is the second beginning course in American Sign Language (ASL). This course has a community interaction requirement of nine hours over the semester. Prerequisite: ASL 101 or departmental permission. Offered every spring. Cr 4.

ASL 201 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 work with media from external resources. This course has a community interaction requirement of 14 hours over the semester. Prerequisite: ASL 102 or departmental permission. Offered every fall. Cr 4.

ASL 202 Intermediate American Sign Language II
Continuation of ASL 201. This course has a community interaction requirement of 19 hours over the semester. Toward the end of the course, every student will take the ASLA, an external assessment of ASL skills. Prerequisite: ASL 201 or departmental permission. Offered every spring. Cr 4.

ASL 401 Advanced American Sign Language I
This is the fifth in a sequence of courses in American Sign Language. This course focuses on advanced expressive skills, including explaining, rephrasing, demonstrating, and persuading. Grammatical principles and functions will be emphasized. Aspects of grammar that will be expanded include classifiers, conditional sentences, rhetorical questions, and relative clauses. Appropriate cultural behaviors and conversational regulators in ASL will continue to be an important part of class. This course has a community interaction requirement of 24 hours over the
semester. Prerequisite: grade of B or higher in ASL 202 or equivalent, and rating of 2 or better on the ASLA or ASLPI. Offered every fall. Cr 4.

ASL 402 Advanced American Sign Language II
Continuation of ASL 401. This course has a community interaction requirement of 29 hours over the semester. Prerequisite: Grade of C or higher in ASL 401, and rating of 2 or better on the ASLA or ASLPI, or departmental permission. Offered every spring. Cr 4.

ASL 415 ASL Literature in ASL
This course, conducted in ASL, introduces Deaf and hearing students to American Sign Language literature, including introductions and face-to-face narratives, as well as literary genres such as the ASL epic poem, stream of consciousness poetry, allegory, and historical fiction. Structural characteristics of the ASL platform narrative and the written English essay are compared and contrasted. Emphasis is on the production and comprehension of academic ASL. Prerequisites: ASL 401 or concurrent, or permission, rating of 2 or better on the ASLA or ASLPI, and LIN 203 (or concurrent). Offered once a year, semester varies, sometimes summer. Cr 3.

ASL 416 ASL Linguistics in ASL
This course focuses on advanced aspects of ASL grammar including complex co-reference, the scope of non-manual grammatical markers, quantification, complex classifier choice, verbs of motion and location, and complex aspectual marking and agreement. Students receive diagnostic feedback throughout the course and are given specific remedial studies to pursue independently. Emphasis is on the production and comprehension of academic ASL. Prerequisites: ASL 401 or concurrent, rating of 2 or better on the ASLA or ASLPI, LIN 105, and LIN 185; or permission (for students with native-level competency in ASL). Offered every fall. Cr 3.

ASL 417 Deaf Art, Film, and Theatre in ASL
This course will examine Deaf culture as expressed in art, film, and theatre. Selections of Deaf art, film, and theatre from the 1900s to the present based on the Deaf experience will be discussed in the context of social and cultural history. The course will be taught in ASL. Emphasis is on the production and comprehension of academic ASL. Prerequisites: ASL 401 or permission, rating of 2 or better on the ASLA or ASLPI, and LIN 203 or concurrent. Offered once a year, semester varies, sometimes summer. Cr 3.

Arabic Courses (back to Language Courses)

ARA 101 Beginning Arabic I
This beginner's course in Arabic stresses the acquisition of cultural information and introduces students to the four skills of language learning: listening, speaking, reading, and writing. Cr 4.

ARA 102 Beginning Arabic II
Continuation of ARA 101. Prerequisite: ARA 101 or equivalent. Cr 4.

Chinese Courses (back to Language Courses)

CHI 101 Beginning Chinese I
A Chinese language course. The course will cover reading, writing, speaking and listening comprehension. Cr 3.

CHI 102 Beginning Chinese II
A continuation of CHI 101. The course will develop student's writing, speaking and listening comprehension skills. Prerequisite: CHI 101 Beginning Chinese I. Cr 3.

French Courses (back to Language Courses)

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. This course requires additional work with coordinated language CDs and/or MP3 files. Opportunity for practice with DVDs and computer exercises is available. Cr. 4.

FRE 102 Beginning French II
Continuation of FRE 101. Prerequisite: FRE 101 or equivalent. Cr 4.

FRE 201 Intermediate French I
Review of grammatical structures with further development of listening comprehension, speaking, reading and writing skills. The emphasis will
be on understanding cultures and contemporary life of French-speaking countries through reading and discussion. This course requires additional work with coordinated language CDs or MP3 files. Opportunity for practice with DVDs and computer exercises is available. Prerequisites: FRE 102, or FRE 103, or FRE 107; two years of high school French or the equivalent or instructor permission. Cr 4.

FRE 202 Intermediate French II
Continuation of FRE 201. Credits may count toward the French major. Prerequisite: FRE 201 or the equivalent or instructor permission. Cr. 4.

**German Courses** ([back to Language Courses](#))

**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. In conjunction with class meetings, additional work is required using language lab resources. Opportunity for practice with videotapes and computer exercises is available. Cr 4.

**GER 102 Beginning German II**  
Continuation of GER 101. Prerequisite: GER 101 or equivalent. Cr 4.

**GER 201 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 102, two years of high school German or the equivalent. Cr 4.

**GER 202 Intermediate German II**  
Continuation of GER 201I. Prerequisite: GER 201I or the equivalent. Cr 4.

**Italian Courses** ([back to Language Courses](#))

**ITA 101 Beginning Italian I**  
A beginning course in Italian in the four skills of language learning: listening comprehension, speaking, reading, and writing. Cr 4.

**ITA 102 Beginning Italian II**  
Continuation of ITA 101. Prerequisite: ITA 101 or equivalent. Cr 4.

**Spanish Courses** ([back to Language Courses](#))

**SPA 101 Beginning Spanish I**  
A beginning course in Spanish in the four skills of language learning: listening comprehension, speaking, reading, and writing. In addition, audio-visual work is required. Cr 4.

**SPA 102 Beginning Spanish II**  
Continuation of SPA 101. Prerequisite: SPA 101 or equivalent. Cr 4.

**SPA 201 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. Prerequisite: SPA 102 or SPA 107, two years of high school Spanish or the equivalent. Cr 4.

**SPA 202 Intermediate Spanish II**  
Continuation of SPA 201. Prerequisite: SPA 201 or the equivalent. Cr 4.
Mathematics and Statistics

Mathematics and Statistics Overview

Chair of the Department: Laurie Woodman

Professors: Aboueissa, El-Taha, Peng; Associate Professors: McCormick, Valdés; Assistant Professor: Bailey; Lecturers: Brunette, Moore, Woodman

The Department of Mathematics and Statistics offers a four-year program leading to a B.A. in mathematics with concentrations in applied mathematics and operations research, pure mathematics, statistics, and secondary teacher education. The Department also offers certificates in actuarial science and applied statistics, as well as minors in actuarial science, applied mathematics, mathematics, and statistics. In addition to meeting Departmental requirements for the major, students must also meet the requirements of the school or college, and the University Core curriculum requirements.

Graduate programs within the Department include a M.S. in Statistics, as well as certificates of graduate study in data science and in statistics.

BA in Mathematics

Description

The Department of Mathematics and Statistics offers a Bachelor of Arts degree in Mathematics. The program is designed to provide students with a broad background in mathematics and statistics. Students select one of three concentrations: pure mathematics, applied mathematics/operations research, or statistics. Students who would like to become certified to teach may select the Secondary Teacher Education track. The Department also offers an accelerated, flexible 4+1 master's program in statistics, where students can earn both an undergraduate degree and the M.S. degree in statistics in five years by carefully selecting their courses.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for a bachelor of arts in mathematics: 49 (34 in foundations and 15 in one of the three concentrations listed below).

A. Foundations

As a mathematics major, a student selects one of the three concentrations described below in section B. For each concentration all majors are required to successfully complete the foundations sequence as described in this section. Each student must have a cumulative 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) (34 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 152 Calculus A</td>
<td>4 cr</td>
</tr>
<tr>
<td>MAT 153 Calculus B</td>
<td>4 cr</td>
</tr>
<tr>
<td>MAT 252 Calculus C</td>
<td>4 cr</td>
</tr>
<tr>
<td>MAT 281 Introduction to Probability</td>
<td>3 cr</td>
</tr>
<tr>
<td>MAT 282 Statistical Inference</td>
<td>3 cr</td>
</tr>
<tr>
<td>MAT 290 Foundations of Mathematics</td>
<td>4 cr</td>
</tr>
<tr>
<td>MAT 295 Linear Algebra</td>
<td>4 cr</td>
</tr>
<tr>
<td>MAT 350 Differential Equations</td>
<td>4 cr</td>
</tr>
<tr>
<td>COS 160 Structured Problem Solving: Java</td>
<td>3 cr</td>
</tr>
<tr>
<td>COS 170 Structured Programming Laboratory</td>
<td>1 cr</td>
</tr>
</tbody>
</table>

B. Concentrations
Each mathematics major should choose one of the following concentrations. (15 credit hours)

1. Pure Mathematics Concentration

Mathematics majors intending to pursue graduate work in mathematics should consider this concentration and are urged to take Real Analysis, 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 three of the courses listed below:
   - MAT 352 Real Analysis
   - MAT 355 Complex Analysis
   - MAT 371 College Geometry
   - MAT 392 Theory of Numbers
   - MAT 395 Abstract Algebra
   - MAT 470 Non-Euclidean Geometry
   - MAT 490 Topology

b. Successful completion of at least two additional mathematics courses numbered 260 or above, excluding MAT 380.

2. Applied Mathematics/Operations Research Concentration

Those majors intending to enter industry or other applied fields should consider this concentration. Majors who plan to prepare for the actuarial profession should be certain to include in their programs Numerical Analysis and the appropriate courses in the School of Business. Majors intending to pursue graduate work in applied mathematics are urged to take Real Analysis and Abstract Algebra.

a. Successful completion of three of the courses listed below:
   - MAT 364 Numerical Analysis
   - MAT 366 Deterministic Models in Operations Research
   - MAT 383 System Modeling and Simulation
   - 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 numbered 260 or above, excluding MAT 380.

3. Statistics Concentration

This concentration is aimed at preparing undergraduates to pursue a career as a statistician in government 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 three of the courses listed below:
   - MAT 264 Statistical Software Packages
   - MAT 383 System Modeling and Simulation
   - MAT 386 Sampling Techniques
   - MAT 387 Introduction to Applied/Biostatistical Methods
   - MAT 388 Statistical Quality Control
   - MAT 484 Design and Analysis of Experiments
   - MAT 485 Introduction to Applied Regression
   - MAT 486 Introduction to Big Data Analytics
   - MAT 487 Introduction to Categorical Data Analysis
   - MAT 488 Introduction to Data Mining

b. Successful completion of at least two additional mathematics courses numbered 260 or above, excluding MAT 380.

BA in Mathematics - Applied Mathematics/Operations Research Concentration

Description

Those majors intending to enter industry or other applied fields should consider this concentration. Majors who plan to prepare for the actuarial
profession should be certain to include in their programs Numerical Analysis and the appropriate courses in the School of Business. Majors intending to pursue graduate work in applied mathematics are urged to take Real Analysis and Abstract Algebra.

**Program Requirements**

In addition to the requirements listed in the BA, the following items are required for the Applied Mathematics/Operations Research Concentration. (15 credits)

a. Successful completion of three of the courses listed below:
   - MAT 364 Numerical Analysis
   - MAT 366 Deterministic Models in Operations Research
   - MAT 383 System Modeling and Simulation
   - 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 numbered 260 or above, excluding MAT 380.

**BA in Mathematics - Pure Mathematics Concentration**

**Description**

Mathematics majors intending to pursue graduate work in mathematics should consider this concentration, and are urged to take Real Analysis, Abstract Algebra, Topology, and one year of French or German. Those intending to teach at the secondary level should choose this concentration.

**Program Requirements**

In addition to the requirements listed in the BA, the following items are required for the Pure Mathematics Concentration. (15 credits)

a. Successful completion of three of the courses listed below:
   - MAT 352 Real Analysis
   - MAT 355 Complex Analysis
   - MAT 371 College Geometry
   - MAT 392 Theory of Numbers
   - MAT 395 Abstract Algebra
   - MAT 470 Non-Euclidean Geometry
   - MAT 490 Topology

b. Successful completion of at least two additional mathematics courses numbered 260 or above, excluding MAT 380.

**BA in Mathematics - Secondary Teacher Education**

**Description**

This track is for students who want to become certified to teach grades 7-12 mathematics in Maine. Interested students should see the secondary education mathematics coordinator upon acceptance at USM, matriculation, upon choosing a math major, or as early in their academic studies at USM as possible. The curriculum for this track is designed to provide prospective 7-12 teachers a strong academic foundation in mathematics along with a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences. The degree has four components: USM Core curriculum, a mathematics major, professional education courses, and electives totaling 120 credit hours.

**Program Requirements**
USM Core Curriculum (including pre-internship education courses):

- EYE 108 Culture, Identity, and Education (recommended) (3 cr.)
- EDU 100 Exploring Teaching (recommended) (3 cr.)
- College Writing - ENG 100 (3 cr.)
- Cultural Interpretation (3 cr.)
- Quantitative Reasoning - MAT 152 Calculus A (4 cr.)
- Creative Expression - EDU 230 Teaching through the Arts (recommended) (3 cr.)
- Socio-Cultural Analysis - HRD 200 Multicultural Human Development (3 cr.)
- Science Exploration (4 cr.)
- Ethical Inquiry, Social Responsibility, and Citizenship - EDU 310 Purpose of Schooling in a Democracy (3 cr.)
- Cluster - EDU 305 Foundations of Cultural and Linguistic Diversity, SED 335 Students with Exceptionalities in General Education, and SED 420 Multi-Tiered Systems of Educational Support (9 cr.)
- Diversity and International met with EDU 305 and EDU 310 respectively

Major Requirements:

Mathematics major (see major degree requirements) specializing in the pure math concentration, including the following required courses:

- MAT 352 Real Analysis
- MAT 371 College Geometry
- MAT 395 Abstract Algebra
- A mathematics modeling course (this course will count as one of the two required upper-level mathematics electives)

Secondary Teacher Education (7-12) Requirements

All requirements for the Secondary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here.

BA in Mathematics - Statistics Concentration

Description

This concentration is aimed at preparing undergraduates to pursue a career as a statistician in government 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.

Program Requirements

In addition to the requirements listed in the BA, the following items are required for the Statistics Concentration. (15 credits)

a. Successful completion of three of the courses listed below:

   MAT 264 Statistical Software Packages
   MAT 383 System Modeling and Simulation
   MAT 386 Sampling Techniques
   MAT 387 Introduction to Applied/Biostatistical Methods
   MAT 388 Statistical Quality Control
   MAT 484 Design and Analysis of Experiments
   MAT 485 Introduction to Applied Regression
   MAT 486 Introduction to Big Data Analytics
   MAT 487 Introduction to Categorical Data Analysis
   MAT 488 Introduction to Data Mining

b. Successful completion of at least two additional mathematics courses numbered 260 or above, excluding MAT 380.
Certificate in Actuarial Science

Description

The interdisciplinary certificate is designed to help students start a career in actuarial science. Students completing the certificate of actuarial science will have a good foundation in the material needed for the actuarial industry's first two exams and will have completed three of the industry's required Validation by Educational Experience (VEE) requirements. This certificate is designed for students who already have a bachelor's degree. Current USM students who are interested in actuarial science can take the interdisciplinary minor, which can be used to satisfy the Core Curriculum Advanced Studies (Thematic Cluster) requirement.

Program Requirements

Minimum number of credits required for the certificate: 32

Required courses in Mathematics and Statistics (17 cr)                        Credits
MAT 152 Calculus A                                 4
MAT 153 Calculus B                                 4
MAT 281 Introduction to Probability                3
MAT 282 Statistical Inference                      3
MAT 485 Introduction to Applied Regression         3

Required courses in Business and Economics (15 cr)                     Credits
ECO 101 Introduction to Macroeconomics               3
ECO 102 Introduction to Microeconomics               3
ACC 110 Financial Accounting Information for Decision Making  3
FIN 320 Basic Financial Management                   3
FIN 323 Financial Engineering                        3

Other relevant courses                                    Credits
RMI 320 Introduction to Risk Management & Insurance      3
FIN 327 Investment Management                          3
MAT 252 Calculus C                                    4
MAT 264 Statistical Software Packages                 2
MAT 295 Linear Algebra                                4
MAT 366 Deterministic Models in Operations Research    3
MAT 383 System Modeling and Simulation                3
MAT 387 Introduction to Applied/Biostatistical Methods 3
MAT 461 Stochastic Models in Operations Research       3

Certificate in Applied Statistics

Description

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 providing mathematics majors with an opportunity for further recognition of their skills. The certificate is helpful for students who want to pursue a master's program in statistics but who need additional advanced undergraduate coursework. The courses are offered during the late afternoon to make them more accessible to individuals who are working.

Program Requirements

Requirements for the certificate are successful completion of:
1. MAT 281 Introduction to Probability and MAT 282 Statistical Inference or the equivalent

2. Four of the following courses:

   MAT 383 System Modeling & Simulation
   MAT 386 Sampling Design & Analysis
   MAT 387 Introduction to Applied Biostatistical Methods
   MAT 388 Statistical Quality Control
   MAT 461 Stochastic Models in Operations Research
   MAT 484 Design and Analysis of Experiments
   MAT 485 Introduction to Applied Regression
   MAT 486 Introduction to Big Data Analytics
   MAT 487 Introduction to Categorical Data Analysis
   MAT 488 Introduction to Data Mining

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**Minor in Actuarial Science**

**Description**

This interdisciplinary minor is designed to help students start a career in actuarial science. Students completing the minor of actuarial science will have a good foundation in the material needed for the actuarial industry's first two exams and will have completed three of the industry's required Validation by Educational Experience (VEE) requirements. The minor is designed for current USM students who are interested in actuarial science and can be used to satisfy the Core Curriculum Advanced Studies (Thematic Cluster) requirement.

**Program Requirements**

Minimum number of credits required for the minor: 32

<table>
<thead>
<tr>
<th>Required courses in Mathematics and Statistics (17 cr)</th>
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</tr>
<tr>
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</tr>
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<td>MAT 282 Statistical Inference</td>
<td>3</td>
</tr>
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</tr>
<tr>
<td>ACC 110 Financial Accounting</td>
<td>3</td>
</tr>
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<td>FIN 320 Basic Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 323 Financial Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Relevant Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMI 320 Introduction to Risk Management and Insurance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 327 Investment Management</td>
<td>3</td>
</tr>
<tr>
<td>MAT 252 Calculus C</td>
<td>4</td>
</tr>
<tr>
<td>MAT 264 Statistical Software Packages</td>
<td>2</td>
</tr>
<tr>
<td>MAT 295 Linear Algebra</td>
<td>4</td>
</tr>
<tr>
<td>MAT 366 Deterministic Models in Operations Research</td>
<td>3</td>
</tr>
<tr>
<td>MAT 383 System Modeling and Simulation</td>
<td>3</td>
</tr>
<tr>
<td>MAT 387 Introduction to Applied/Biostatistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>MAT 461 Stochastic Models in Operations Research</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Applied Mathematics

Description

Students in other fields of study receive a minor in applied mathematics when they demonstrate they have taken a rigorous and comprehensive set of courses within the discipline.

Program Requirements

The minimum number of credits required for the minor in applied mathematics: 22

Students must satisfy the following requirements with a cumulative GPA of at least 2.0.

Required courses:
- MAT 152 Calculus A
- MAT 153 Calculus B
- MAT 281 Introduction to Probability OR MAT 380 Probability and Statistics
- MAT 295 Linear Algebra

Three additional courses from the following:
- MAT 350 Differential Equations
- MAT 364 Numerical Analysis
- MAT 366 Deterministic Models in Operations Research
- MAT 383 System Modeling and Simulation
- MAT 460 Mathematical Modeling
- MAT 461 Stochastic Models in Operations Research
- MAT 492 Graph Theory and Combinatorics

Minor in Mathematics

Description

Students in other fields of study receive a minor in mathematics when they demonstrate they have taken a rigorous and comprehensive set of courses within the discipline.

Program Requirements

The minimum number of credits required for a minor in mathematics: 22

Students must satisfy the following requirements with a cumulative GPA of at least 2.0.

Required courses:
- MAT 152 Calculus A
- MAT 153 Calculus B
- MAT 252 Calculus C
- MAT 295 Linear Algebra

Two additional courses from the following:
- MAT 290 Foundations of Mathematics
- MAT 350 Differential Equations
- MAT 352 Real Analysis
- MAT 355 Complex Analysis
- MAT 371 College Geometry
- MAT 392 Theory of Numbers
- MAT 395 Abstract Algebra
Minor in Statistics

Description

Students in other fields of study receive a minor in statistics when they demonstrate they have taken a rigorous and comprehensive set of courses within the discipline.

Program Requirements

The minimum number of credits required for a minor in statistics: 22

Students must satisfy the following requirements with a cumulative GPA of at least 2.0.

Required courses:
- MAT 152 Calculus A
- MAT 153 Calculus B
- MAT 264 Statistical Software Packages
- MAT 281 Introduction to Probability or MAT 380 Probability and Statistics
- MAT 282 Statistical Inference

Two additional courses from the following:
- MAT 386 Sampling Techniques
- MAT 387 Introduction to Applied/Biostatistical Methods
- MAT 388 Statistical Quality Control
- MAT 461 Stochastic Models in Operations Research
- MAT 484 Design and Analysis of Experiments
- MAT 485 Introduction to Applied Regression
- MAT 486 Introduction to Big Data Analytics
- MAT 487 Introduction to Categorical Data Analysis
- MAT 488 Introduction to Data Mining

Course Descriptions

- Undergraduate
- Graduate

Undergraduate

It is expected that students will possess and be able to operate a basic scientific calculator if they enroll in mathematics courses.

MAT 9 Developmental Mathematics
A review of fundamental topics of arithmetic needed for a study of algebra. This course will cover the following topics: Addition, subtraction, multiplication, and division of fractions; use of decimals and percent; estimation; addition, subtraction, multiplication and division of real numbers; exponents; order of arithmetic operations; distributive property; combining like terms; substitution to evaluate expressions and formulas; grouping symbols; addition and multiplication principle; equations with fractions; formulas; sets; writing and graphing inequalities; solving inequalities and problem solving. Successful completion of an exit exam at a C level or higher is required. Credit earned in MAT 9 does not apply or accumulate toward any degree program at the University of Southern Maine. It does carry "institutional” credit, which means the credits count toward financial aid, athletic, or residential requirements, but not toward graduation.

MAT 101 College Readiness Mathematics
This course reviews and reinforces the basic arithmetic and algebra skills and concepts needed for entry into the University's general education
MAT 105 Mathematics for Quantitative Decision Making
This is an introductory course in quantitative literacy that, through lecture and lab, emphasizes critical thinking, mathematical reasoning, and technological tools. Topics are selected to develop an awareness of the utility of mathematics in life and to instill an appreciation of the scope and nature of its decision making potential. Prerequisite: successful completion of the University's college readiness requirement in mathematics. Cr 4.

MAT 108 College Algebra
A survey of the mathematics needed for Pre-Calculus and related analytical coursework. The topics include linear, quadratic, and absolute value equations and inequalities; graphs; and functions (linear, quadratic, polynomial, rational, exponential, and logarithmic). Prerequisite: Successful completion of the University's college readiness requirement in mathematics. Cr 4.

MAT 120 Introduction to Statistics
An introduction to probability and statistics through lecture and lab. Particular topics include random variables and their distributions, methods of descriptive statistics, estimation and hypothesis testing, regression, and correlation. Prerequisite: successful completion of the University's college readiness requirement in mathematics. Cr 4.

MAT 131 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 college readiness requirement in mathematics. Cr 3.

MAT 140 Pre-Calculus Mathematics
A brief review of elementary algebra followed by a study of the algebraic, exponential, logarithmic, and trigonometric functions. Prerequisite: MAT 108 or appropriate score on the College Level Math exam. Cr 3.

MAT 145 Discrete Mathematics I
This course is an introduction to discrete mathematics necessary for a study of computer science. Topics will include a study of functions, sets, basic logic systems, and combinatorics. Prerequisite: MAT 108, MAT 140, MAT 152, or permission of instructor. Cr 3.

MAT 148 Applied Calculus
An introduction to limits and differential and integral calculus of algebraic and transcendental functions of one variable. Applications of derivatives and definite integrals with an emphasis on problems from the fields of technology will be introduced. Graphing calculators and computer technology will be used when appropriate. Prerequisite: MAT 140. Cr 3.

MAT 152 Calculus A
The first course in a three-semester sequence covering basic calculus of real variables, Calculus A introduces the concept of limit and applies it to the definition of derivative and integral of a function of one variable. The rules of differentiation and properties of the integral are emphasized, as well as applications of the derivative and integral. This course also includes an introduction to the transcendental functions. Prerequisite: MAT 140 or appropriate score on the College Level Math exam. Cr 4.

MAT 153 Calculus B
The second course in a three-semester sequence covering basic calculus of real variables, Calculus B usually includes techniques of integration, indeterminate forms and L'Hopital's Rule, improper integrals, infinite series, conic sections, parametric equations, and polar coordinates. Prerequisite: MAT 152. Cr 4.

MAT 181 Computing with Mathematica
An introduction to Mathematica as a general-purpose computational and visualization tool. Topics include symbolic and numerical computations, graphics and visualization, and basics of the Mathematica programming language. Students will use Mathematica in several hands-on exercises to solve typical computational problems. Cr 1.

MAT 201 Teaching Seminar
A seminar intended to expose students to teaching introductory college mathematics courses. Students will be expected to participate in discussions concerning issues of pedagogy and classroom management. Some classes will be student-led. Cr 1.

MAT 210 Business Statistics
This course investigates graphical and numerical methods of descriptive statistics; basic probability; discrete and continuous random variables and their distributions (binomial, hypergeometric, Poisson, uniform, exponential, and normal); sampling distributions; estimation; tests of hypotheses; and other selected topics. Applications will be chosen primarily from business. Prerequisite: MAT 108 (may be taken concurrently). Cr 4.
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 152. 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 131. 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 131. Cr 3.

MAT 242 Applied Problem Solving
This course is designed to examine mathematical concepts and apply them to solving modeling problems in various contexts. The focus will be on the Common Core State Standards mathematical concepts and practices, in particular, mathematical modeling. Students will formulate essential questions, gather and organize data, discover patterns, and interpret and communicate information verbally and in writing. Prerequisite: MAT 108. Cr 3.

MAT 252 Calculus C
The third course in a three-semester sequence covering basic calculus of real variables, Calculus C includes vectors, curves and surfaces in space, multivariate calculus, and vector analysis. Prerequisite: MAT 153. Cr 4.

MAT 260 Technological Tools for the Mathematical Sciences
MAT 260 is designed for students in mathematics and disciplines that utilize mathematics. Specific topics will include the computer algebra system Mathematica and the technical word-processing system TEX. Prerequisite: MAT 152. Cr 2.

MAT 264 Statistical Software Packages
The overall objective of the course is to enable students to develop the ability to use SAS and R for basic statistical analyses, and to prepare for more advanced uses of SAS and R. A number of topics concerning computing and statistics will be covered in both SAS and R. Topics include data acquisition, cleaning, and management using SAS; reading data into SAS from various sources, recoding variables, subsetting and merging data, exporting results in other formats. Graphical procedures, basic descriptive and inferential statistics. Introduction to SAS macros. Data acquisition, cleaning, and management in R; use of regular expressions; functional and object-oriented programming; graphical, descriptive, and inferential statistical methods; random number generation; Monte Carlo methods including resampling, randomization, and simulation. Prerequisite: MAT 282 or permission of the instructor. Cr 3.

MAT 281 Introduction to Probability
This course will cover basic concepts of probability, including discrete and continuous random variables and their distributions, moment generating functions, and bivariate random variables and their distributions. Some basic sampling distributions will also be discussed. Prerequisite: MAT 153. Cr 3.

MAT 282 Statistical Inference
This course will examine various statistical methods and applications such as point and interval estimation; methods of estimation including methods of moments, maximum likelihood and least squares method; hypothesis testing; simple and multiple linear regression; and one-factor and two-factor ANOVA. Some statistical packages such as SAS or MINITAB will be used extensively throughout the course. Prerequisite: MAT 281 or permission of instructor. Cr 3.

MAT 290 Foundations of Mathematics
Selected topics in set theory, symbolic logic, and methods of proofs needed in more advanced mathematics courses. Prerequisite: MAT 153 or permission of the instructor. Cr 4.

MAT 295 Linear Algebra
An introduction to the theory of vector spaces and linear transformations. Particular topics will include the study of systems of linear equations, matrices, determinants, Euclidean vector spaces, inner product spaces, and theory of diagonalization. Prerequisite: MAT 153 or permission of the instructor. Cr 4.

MAT 350 Differential Equations

MAT 352 Real Analysis
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 MAT 290 or permission of the instructor. 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 MAT 290 or permission of the instructor. 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, MAT 295, and COS 160; or permission of instructor. Cr 3.

MAT 366 Deterministic Models in Operations Research

MAT 371 College Geometry
Selected topics from Euclidean geometry. Prerequisite: MAT 290 or permission of the instructor. 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. Cr 3.

MAT 383 System Modeling and Simulation
This course is designed to introduce the fundamental elements of successful system modeling using simulation. Applications to computer, communications, and inventory systems, as well as to traditional engineering problems, will be discussed. Topics include model validation and verification, input/output analysis, and the generation of various types of random data. Students are required to conduct a simulation project in their area of interest using a simulation language. Prerequisite: MAT 281 or MAT 380 or permission of instructor. 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 282 or permission of instructor. Cr 3.

MAT 387 Introduction to Applied/Biostatistical Methods
This is an introductory statistical methodology course with emphases on applications in biological and health sciences. Topics include distributional theory, estimation and testing hypotheses, rank-based and related distribution free tests, large sample chi-squared tests, analysis of rates and proportions, paired sample methods, permutation and re-sampling methods. Writing formal statistical reports of projects based on real life data is a key component of the course. Prerequisite: MAT 282 or permission of instructor. 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 282 or permission of instructor. Cr 3.

MAT 392 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: MAT 290 or permission of the instructor. Cr 3.

MAT 395 Abstract Algebra
Algebraic structures, such as groups, rings, integral domains, and fields. Prerequisite: MAT 290 or 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 281 or MAT 380, or permission of instructor. Cr 3.
MAT 470 Non-Euclidean Geometry
A development of one or more of the non-Euclidean geometries. Prerequisite: MAT 371 or permission of the instructor. 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, Youdean square designs, random effects and mixed effect models, nested designs, and split-plot designs. Prerequisites: MAT 282 or permission of instructor. Cr 3.

MAT 485 Introduction to Applied Regression
This is an introduction to linear regression and time series analysis. Topics include model building, model diagnostics using residual analysis, choice of models, model interpretation, linear time series models, stationary processes, moving average models, autoregressive models, and related models. Technical writing for project reports is required for this course. Prerequisite: MAT 282 or permission of instructor. Cr 3.

MAT 486 Introduction to Big Data Analytics
This is an introductory course of big data and predictive analytics covering foundational techniques and tools required for data science. The course focuses on concepts, principles, and techniques applicable to industry and establishes a baseline that can be enhanced by further formal training and additional real-world experience. Topics include basic database management systems, data pre-processing, association rules, decision trees, naive Bayes, clustering, and memory-based reasoning. The class follows a learning-by-doing approach in which the students will complete projects on real-world data sets. Prerequisite: MAT 282 or permission of instructor. Cr 3.

MAT 487 Introduction to Categorical Data Analysis
This is an introductory course in analyzing categorical data arising from a variety of fields such as biological, biomedical and health sciences, social science, and engineering. Topics include contingency table analysis, logistic regression, and Poisson regression modeling and model diagnostics. Writing formal statistical reports of projects based on real life data is a key component of the course. Prerequisite: MAT 282 or permission of instructor. Cr 3.

MAT 488 Introduction to Data Mining
This is an introductory course in statistical data mining. The course emphasizes the understanding and application of data mining methods and algorithms. Topics include data preparation, exploratory data analysis and visualization, cluster analysis, logistic regression, decision trees, association rules, model assessment, and other topics. Applications to real world data will be illustrated using standard computer packages. Prerequisite: MAT 282 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 MAT 290 or permission of the instructor. 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: MAT 290 or permission of the instructor. Cr 3.

MAT 496 Introduction to Data Science
This is an introductory course in data science. It will cover three major components in data science: database management, analytics, and communication and visualization. Topics include data manipulation at scale, machine learning and data mining algorithms, statistical modeling, and information visualization. After completing this course, students will be able to work with large datasets and perform predictive analytics using a range of tools. Course projects will cover all phases of producing data product from the raw data. Prerequisite: MAT 281 and MAT 282, or permission of instructor. 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

MME 400 Elementary Mathematics Methods
This course is designed for those preparing to be elementary and middle school mathematics teachers and provides experiences to develop and apply mathematical content and pedagogical knowledge and skills. The primary focus of this course is on how to create positive learning communities that support all students in developing a deep understanding of mathematical concepts and procedures. Major areas of focus include:
creating problem-based learning experiences; creating effective, supportive learning environments; the appropriate and effective use of models and tools for promoting understanding of mathematical ideas, including the use of technology and manipulatives; understanding learning progressions of important mathematical ideas; promoting the National Council of Teachers’ Process Standards; supporting students’ understanding of the Common Core Standards and Practices; assessing and building on students’ mathematical understandings; creating adaptive learning materials to differentiate instruction for individuals and groups of learners. Prerequisite: permission of instructor. Cr 3.

MME 434 Secondary Mathematics Methods
This course focuses on research-based, best practices in teaching mathematics in grades 7-12. It is designed for those preparing to be middle school and secondary mathematics teachers and provides experiences to develop and apply mathematical content and pedagogical knowledge and skills. A primary focus of this course is on how to create positive learning communities that support all students in developing a deep understanding of mathematical concepts and procedures. Major areas of emphasis include: creating problem-based learning experiences; implementing high-level mathematical tasks; creating effective, supportive learning environments; the appropriate and effective use of models and tools for promoting understanding of mathematical ideas, including the use of technology; promoting the National Council of Teachers’ Process Standards; supporting students’ understanding of the Common Core Standards and Practices; assessing and building on students’ mathematical understandings. Prerequisite: permission of instructor. Cr 3.

MME 435 Professional Internship
This course is a supervised internship in applying knowledge and skills to the practice of teaching mathematics. This course must be taken concurrently with MME 436. Offered only as a pass/fail course. Prerequisite: permission of instructor. Cr 3-6.

MME 436 Seminar
This course provides teaching interns opportunity for reflection, sharing learning experiences, discussing pedagogical and best-practice issues, as well as the chance to learn techniques for classroom management. This course must be taken concurrently with MME 435. Prerequisite: permission of instructor. Cr 3.

MME 445 Teaching Mathematics in Maine: Curriculum and Capstone Course
Critical study of programs and strategies for teaching middle school level mathematics for all learners, with a particular focus on technology. Prerequisites: HRD 200 and 20 mathematics credits, or permission of instructor. Cr 3.

MME 554 Secondary Mathematics Methods
This course focuses on research-based, best practices in teaching mathematics in grades 7-12. It is designed for those preparing to be middle school and secondary mathematics teachers and provides experiences to develop and apply mathematical content and pedagogical knowledge and skills. A primary focus of this course is on how to create positive learning communities that support all students in developing a deep understanding of mathematical concepts and procedures. Major areas of emphasis include: creating problem-based learning experiences; implementing high-level mathematical tasks; creating effective, supportive learning environments; the appropriate and effective use of models and tools for promoting understanding of mathematical ideas, including the use of technology; promoting the National Council of Teachers’ Process Standards; supporting students’ understanding of the Common Core Standards and Practices; assessing and building on students’ mathematical understandings. Prerequisite: permission of instructor. Cr 3.

Graduate (Back to top)

STA 501 Ethical Issues in Biostatistics
This course examines a variety of ethical controversies in biotechnology, medicine, and the environment. It also examines the major ethical principles in conducting biomedical research including ethical aspects related to the production and use of biomedical statistical analyses. Cr 2.

STA/OPR 561 Deterministic Models in Operations Research
Formulation and analysis of deterministic models in operations research, linear programming, integer programming, project management, network flows, dynamic programming, non-linear programming, game theory, and group projects on practical problems from business and industry. Prerequisite: MAT 152 or MAT 295 or permission of instructor. Cr 3.

STA/OPR 562 Stochastic Modeling in Operations Research
Formulation and analysis of stochastic models in operations research, Markov chains, birth-death models, Markov decision models, reliability models, inventory models, applications to real world problems, and group projects on practical problems from business and industry. Prerequisite: MAT 281 or MAT 380 or permission of instructor. Cr 3.

STA/OPR 563 System Modeling and Simulation
Basic simulation methodology, general principles of model building, model validation and verification, random number generation, input and output analysis, simulation languages, applications to computer and communication networks, manufacturing, business, and engineering will be considered, and group projects on practical problems from business and industry. Prerequisite: MAT 281 or MAT 380 or permission of instructor. Cr 3.

STA/OPR 564 Queuing Networks
Queuing and stochastic service systems, birth-death processes, Markovian queues, open and closed Jackson networks, priority queues, imbedded
Markov chain models, optimal control and design, stochastic scheduling, applications to computer and communication networks, manufacturing, business, and engineering will be considered, and projects on practical problems from business and industry. Prerequisite: MAT 281 or MAT 380 or permission of instructor. Cr 3.

**STA 574 Statistical Programming**
This course focuses on statistical programming using software SAS and R. Emphasis will be placed on the data manipulation, including reading, processing, recoding, and reformatting of data. The approach will be to teach by example, with an emphasis on hands-on learning. Topics include, but are not limited to, data management, database programming, statistical graphics, generating statistical reports, Basic statistical procedures (routine), and creating MACROs (Routines), and R functions for non-standard statistical methods. The course will also cover the basic SQL statements with SAS PROC SQL and use them to optimize SAS programs. Prerequisite: MAT 282 or permission of instructor. Cr 3.

**STA/OPR 575 Graduate Internship and Writing**
The course is intended to give students work experience with statistical data analysis through paid or unpaid internship opportunities. The student is expected to spend a minimum of ten weeks working with area businesses on statistical problems approved by the graduate committee. The student will submit to the graduate committee a formal written report on the internship experience. The report format should adhere to all the elements of a formal project/thesis. At least one oral presentation to the public is expected before the student receives a pass/fail grade. Students within the Biostatistics track are required to take three credits; two for the internship experience and one for the writing component. Cr var.

**STA 580 Applied Statistical/Biostatistical Methods**
Basics in distribution theory (focus on CLT and sampling distributions); standard one-, two-sample problems (both parametric and nonparametric); one-, two-way ANOVA; estimation and testing theory (focus on normal theory and the principles of likelihood), various chi-square tests (Wald, Likelihood ratio, and Score tests); and analysis of contingency tables. Prerequisites: MAT 153 and MAT 282. Cr 3.

**STA 581 Statistical Quality Control**
Methods and philosophy of statistical process control, control charts for variables, control charts for attributes, CUSUM and EWMA control charts, some other statistical process control techniques, process capability analysis, and certain process design and improvements with experimental design. Prerequisite: MAT 282. Cr 3.

**STA 582 Introduction to Longitudinal Data Analysis**
This is an introductory course on how to use statistical techniques to analyze longitudinal (repeated measures) data and interpret the results from such analysis. The course will focus primarily on application of the various statistical models covered, with direct application illustrated using standard statistical software. Topics include random or mixed-effects models (also called HLM or multilevel models), covariance pattern models, generalized estimating equations (GEE) models, and missing data in longitudinal studies. Cr 3.

**STA 583 Sample Survey Design and Analysis**
This course, students will develop an understanding of alternative probability sample designs and the statistical and practical factors that impact design choices. Develop the ability to select an estimator for a population parameter and an estimator of its variance, given a sample design and auxiliary information (covariates). Introduce statistical principles and methods used to study disease and its prevention or treatment in human populations in clinical trials, including phase I to IV clinical trials. Ways of treatment allocation that will ensure valid inference on treatment comparison will be discussed. Other topics include sample size calculation, early stopping of a clinical trial, and noncompliance. Prerequisite: MAT 282. Cr 3.

**STA 584 Advanced Design and Analysis of Experiments**
Topics covered include: one-way and two-way layouts, factorial experiments, fractional replications in factorial experiments, BIB and PBIB designs, and repeated measure design. Prerequisite: MAT 282. Cr 3.

**STA 585 Linear Models and Forecasting**
This is an introductory regression and forecasting modeling course. Topics include basic concepts of linear models and forecasting, simple and multiple linear regression, model building and diagnostics, time series regression and smoothing, and forecasting time series with ARIMA (Autoregressive Integrated Moving Average) and Box-Jenkins models. Prerequisite: MAT 282. Cr 3.

**STA 586 Predictive Modeling with Big Data**
This is an introductory course of big data and predictive analytics covering foundational techniques and tools required for data science. The course focuses on concepts, principles, and techniques applicable to industry and establishes a baseline that can be enhanced by further formal training and additional real-world experience. Topics include basic database management systems, data pre-processing, association rules, decision trees, naive Bayes, clustering, memory-based reasoning, support vector machine, and some ensemble learning algorithms. The class follows a learning-by-doing approach in which the students will complete projects on real-world data sets. Prerequisite: MAT 282 or permission of instructor. Cr 3.

**STA 587 Categorical Data Analysis**
Topics to be examined include: two-way tables, generalized linear models, logistic and conditional logistic models, loglinear models, fitting strategies, model selection, and residual analysis. Prerequisite: MAT 282. Cr 3.
STA 588 Introduction to Statistical Data Mining
This is an introductory course in statistical data mining and machine learning. The course emphasizes the understanding and application of data mining and machine learning methods and algorithms. Topics include both supervised and unsupervised learning algorithms for clustering and classification. Some advanced algorithms such as boosting, bootstrap aggregation, random forests, shrinkage regression, principal component, and factor analysis will also be covered. Applications to real world data will be illustrated using standard computer packages. Prerequisite: MAT 282 or permission of instructor. Cr 3.

STA 589 Survival Analysis
Survival and reliability concepts, mathematics of survival models, parametric and non-parametric estimates from complete and censored data, Kaplan-Meier estimators, regression models including Poisson regression and Cox's proportional hazards model, time-dependent covariates, and analysis of rates. Prerequisite: MAT 282. Cr 3.

STA/OPR 590 Master's Project/Thesis
The project must be approved by the graduate program committee in advance. Offered only as a pass/fail course. Prerequisites: full graduate standing and faculty approval. Cr 6.

STA 591 Topics in Biostatistics
Course will be offered on demand. Based on students' interests, the course may cover one or more of the following topics: clinical trials, computer intensive statistical methods, statistical methods in bioinformatics, environmental statistics, or a combination of these topics. Prerequisites: full graduate standing and faculty approval. Cr 3.

STA 596 Practical Data Science
This is an introductory course in data science. It will cover a full technical pipeline from database management to data analytics and the final data product. Topics include data manipulation at scale, machine learning and data mining algorithms, statistical modeling, information visualization, and special topics chosen from text mining and social network analysis. After completing this course, students will be able to work with large datasets and perform predictive analytics using a range of tools. Course projects will include cleaning, processing, and analyzing data at scale, along with formal technical writing with appropriate data visualizations. Prerequisite MAT 282 or permission of instructor. Cr 3.

STA/OPR 597 Independent Study
An opportunity for graduate students to pursue areas not currently offered in the graduate curriculum. Cr 3.
Nursing

Nursing Overview

Director, School of Nursing: Krista Meinersmann
Coordinator of Graduate Nursing Programs: Cheryl Sarton
Coordinator of Undergraduate Nursing Programs: Laurie Caton-Lemos

Faculty in Nursing:
Professor: Harris; Associate Professors: Meinersmann, Moody, Randall (Carla), Samia, Sepples; Assistant Professors: Fackler, Gottlieb, Lyden, Randall (Cynthia), Sarton, Schroeder, Thompson-Leavitt; Instructors: Caton-Lemos, Dvorak; Lecturers: Darus, Goldenberg, Korenkiewicz, Larsen, Pearl, Vickerson; Adjunct: Moore-Littlefield; Professors Emeritae: Childs, Hart, Spross; Associate Professors Emeritae: Burson, Fournier, Healy, Johnson, Keith, Lawson, Normandeau, Peake-Godin, Rodgers, Tiffany, Tukey, Vines, Woods Smith; Assistant Professor Emerita: Nealand; Instructor Emerita: Elliott

The School of Nursing (SON) offers programs leading to a bachelor of science with a major in nursing, a master of science with a major in nursing and a doctor of nursing practice. In addition, it offers a minor in holistic and integrative health and a certificate in holistic health. 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 baccalaureate or master's degree in nursing. The nursing programs are approved by the Maine State Board of Nursing. The baccalaureate and master's programs at USM are accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC 20036 (202) 887-6791.

Mission

The University of Southern Maine School of Nursing is dedicated to advancing the health and well-being of its community through the education of caring and competent nurses prepared for the challenges of 21st century nursing practice.

Philosophy

We, the faculty, believe that professional and safe nursing practice is at the intersection of clinical excellence and effective relational practice. Relational practice is an outcome-orientated approach to nursing that includes reflective practice, strong communication, and respectful disciplinary and interprofessional collaboration with a focus on patient and family-centered care.

Baccalaureate nursing education is guided by theory and knowledge from nursing science, the arts and humanities, the social sciences, and the biological sciences. It builds on this background to advance the art and science of nursing using informatics, technology, and evidence to address issues of quality and safety. In an effort to deliver compassionate and ethical care, students develop a broad understanding of social structures as they gain awareness and respect for individuals. Nursing students develop an understanding of how systems affect the health and well-being of diverse communities, families, and individuals across the lifespan. In an ever-changing, complex, and global world our graduates will have generalist nursing knowledge, orientation to leadership, and a focus on the growing needs of an aging population.

The University of Southern Maine School of Nursing undergraduate nursing program embraces the Maine Nurse Core Competencies (2013), AACN Baccalaureate Essentials (2008), and the University of Southern Maine’s Core Curriculum Learning Outcomes (2011) as foundational to the curriculum.

Our philosophy of teaching nursing is based on the principles outlined in the Carnegie Foundation sponsored research on Educating Nurses (Benner, Sutphen, Leonard and Day, 2010), which advances four essential shifts for effective integration of the three apprenticeships of nursing (knowledge, know-how, and formation). The shifts are defined in this Appendix.

Graduate nursing education builds on baccalaureate education and is guided by advanced theory and knowledge from nursing and other sciences. A primary aim of graduate nursing education is to ensure that every student acquires the ability to analyze, synthesize, and utilize knowledge to advance the practice of nursing. Graduate education prepares the nurse to engage in scholarly enquiry using research and quality improvement methods, contemporary technology, and interprofessional collaboration.

At the University of Southern Maine School of Nursing, students, faculty members, practicing nurses, and clients work as partners in learning. Students begin from a place of self-awareness with an expectation that deep learning will challenge long-held beliefs, attitudes, and responses. Learning begins when students acknowledge, respect, and reflect upon past and present experiences. Learning is enhanced by critical engagement in the educational process, by the perception that the task of education is relevant and meaningful, and by an expectation of success. Repetition and meaningful feedback allow students to develop insight, new habits, and practice patterns. Varied strategies and sequential mastery of content enable learners to develop approaches, establish connections, and verify patterns to make generalizations and discriminations. The shared responsibility for identifying learning needs and evaluating learning experiences enhances self-confidence and the ability to become increasingly self-directed. Successful learning takes place in an environment where learners feel both challenged and supported.

The programs of the School of Nursing are subject to change at any time without notice.
For more information about the Nursing programs at USM please visit our website: [http://usm.maine.edu/nursing](http://usm.maine.edu/nursing)

**BS in Nursing**

**Description**

This program prepares individuals to begin their nursing practice in a variety of health care settings and in specialty areas. Graduates possess generalist nursing knowledge, an orientation to leadership, and a foundation to begin graduate studies.

**Program Requirements**

The baccalaureate nursing program requires the completion of a minimum of 120 credits of study and culminates in a baccalaureate degree (B.S.). Graduates of this program are eligible to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Students must fulfill the USM general education requirements by completing any one of the following pathways: the USM Core curriculum, the Russell Scholars Program, or the University Honors Program. Beginning coursework in the baccalaureate curriculum includes English composition, quantitative decision making, natural and behavioral sciences, arts, and humanities.

Nursing content at the upper division is organized to facilitate the integration of nursing knowledge and skills and to draw on a foundation of learning from other disciplines. The nursing curriculum provides opportunities for students to develop skills in partnering with various community stakeholders to identify community strengths, resources, and needs. Courses focus on the promotion, maintenance, and restoration of health. Students have experiences that involve assessment, planning, implementation, and evaluation of care for individuals of all ages: in families, groups of clients, and communities across the health continuum. Inpatient and outpatient settings, community health agencies, public health settings, long-term care facilities, schools, and industries are used for clinical experiences.

Students follow a specific sequence of didactic and clinical courses with a student cohort group.

**Recommended Course Sequence**

**Sample plan of study:**

**Fall Semester Freshman Year**

EYE – Entry Year Experience course
*College Writing
*BIO 111 – Human Anatomy and Physiology I
*BIO 112 – Practical Human Anatomy and Physiology I
MAT 120 – Introduction to Statistics
TOTAL CREDITS: 14.5

**Spring Semester Freshman Year**

*BIO 113 – Human Anatomy and Physiology II
*BIO 114 – Practical Human Anatomy and Physiology II
*CHY 107 – Chemistry for the Health Sciences
*HRD 200/SBS 200 – Multicultural Human Development
*NUR 100 – Introduction to Professional Nursing
*PSY 101 – General Psychology I
Fall Semester Sophomore Year
*BIO 281 – Microbiology for Health Sciences
*BIO 282 – Microbiological Laboratory
*SOC 100 – Introduction to Sociology
Cultural Interpretation course
Thematic Cluster course, Minor course, or Elective course
TOTAL CREDITS: 14

Spring Semester Sophomore Year
*BIO 345 – Pathophysiology
*CON 252 – Human Nutrition
CON 356 – Concepts in Community Health
Thematic Cluster course, Minor course, or Elective course
Creative Expression course
TOTAL CREDITS: 15

Fall Semester Junior Year
*NUR 300/301 – Health Assessment and Lab
*NUR 302 – Pharmacology
*NUR 306 – Nursing Arts and Science
*NUR 307 – Fundamentals in Nursing Lab
NUR 330/331 – Mental Health Nursing and Clinical
TOTAL CREDITS: 16

Spring Semester Junior Year
CON 321 – Health-Related Research
NUR 313 – Adult Health Skills and Simulation
NUR 323/325 – Adult/Older Adult Nursing and Clinical
NUR 332 – Nursing Care of the Older Adult in the Community
NUR 339 – Community Nursing Partnerships I
TOTAL CREDITS: 15

Fall Semester Senior Year
NUR 341 – Community Nursing Partnerships II
NUR 420 – Reproductive and Child Health Skills and Simulation
NUR 421/422 – Reproductive and Sexual Health Nursing and Clinical
NUR 424 – Clinically-Applied Genetics
NUR 427/428 – Child Health Nursing and Clinical
TOTAL CREDITS: 15

Spring Semester Senior Year
NUR 413 – Advanced Nursing Skills Lab
NUR 423/425 – Management of the Critically Ill Adult/Older Adult and Clinical
NUR 470 – Leadership, Management, and Ethics
NUR 480 – Practicum/Care Management
Thematic Cluster course, Minor course, or Elective course
TOTAL CREDITS: 15

120 credits required to graduate

*Must be completed prior to NUR 323/325

The core curriculum requirements in science exploration, ethical inquiry, international, diversity, and socio-cultural analysis are met through the Nursing curriculum.

The plan of study is subject to change.

Admission Information

Because the baccalaureate nursing program includes supervised clinical experiences, the nursing faculty reserves the right to limit enrollments. Admission to the program is highly selective.
In addition to the requirements established for admission to the University, high school students applying to the School of Nursing must complete high school chemistry and biology with labs. SAT or ACT scores for first year applicants, academic record, and a required essay are considered in the application review process. Please see the admission section of the USM undergraduate catalog for further requirements.

First-year applicants internal to USM with 32 or fewer credits, a minimum USM GPA of 3.0, and who have successfully completed specific prerequisite requirements (math readiness, college writing or equivalent, anatomy and physiology I with C or better or chemistry with C or better, and two of the following three social sciences with C or better: introductory sociology, multicultural human development, or general psychology) may apply for a change of major to nursing in consultation with the nursing advisor.

Transfer admission into the nursing major is available according to the number of open seats in a cohort-based system. Internal and external applicants may apply for transfer with a minimum of 30 credits, a minimum GPA of 3.0 in all prior college work, a minimum GPA of 2.67 in the natural science courses that have been completed (anatomy & physiology I & II with labs, chemistry, microbiology with lab, pathophysiology, and human nutrition) and math readiness as determined by the University. Applications for the admission of transfer students will be processed once a year for fall admission. The application deadline is January 15. Applicants will be notified of decisions by mid April.

**BS in Nursing - Accelerated Program**

**Description**

The faculty of the School of Nursing recognizes the desire of people with baccalaureate degrees in disciplines other than nursing to become nurses and has designed an accelerated program that leads to a B.S. in nursing in 15 months of full-time study. Students enrolled in this program build their undergraduate nursing courses upon previous academic and life experiences. Graduates of this program are eligible to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

**Program Requirements**

Students admitted to this program must hold a baccalaureate degree from a regionally accredited university or college and have successfully complete a college/university course in Anatomy & Physiology I & II (all body systems) and a college/university course in statistics by the time the program begins in May.

**Recommended Course Sequence**

**Summer I**
- BIO 345 - Pathophysiology
- CON 252 - Human Nutrition
- NUR 211 - Nursing Role: Accelerated/Option Students
- NUR 300/301 - Health Assessment and Lab
- NUR 302 - Pharmacology
- NUR 305 - Fundamentals in Nursing Lab
- NUR 306 - Nursing Arts and Sciences

Total Credits: 18

**Fall I**
- CON 356 - Concepts in Community Health
- NUR 313 - Intermediate Nursing Skills Lab
- NUR 323/325 - Adult/Older Adult Health Nursing and Clinical
- NUR 330/331 - Mental Health Nursing and Clinical
- NUR 332 - Nursing Care of the Older Adult in the Community

Total Credits: 18

**Spring I**
- NUR 421/422 - Reproductive and Sexual Health Nursing and Clinical
- NUR 424 - Clinically Applied Genetics
- NUR 427/428 - Child Health Nursing and Clinical
- NUR 436 - Community Nursing Partnerships I for Accelerated B.S. Students

Total Credits: 15

**Summer II**
CON 321 - Health-Related Research
NUR 413 - Advanced Nursing Skills Lab
NUR 423/425 - Management of the Critically Ill Adult/Older Adult Nursing and Clinical
NUR 437 - Community Nursing Partnerships II for Accelerated B.S. Students
NUR 470 - Leadership, Management, and Ethics
NUR 480 - Practicum/Care Management
Total Credits: 17

Total program credits: 70

**Admission Information**

This program admits students through a competitive admission process. To be considered for admission, applicants must have achieved a minimum GPA of 3.3 on a 4.0 scale in a prior baccalaureate or higher degree.

**BS in Nursing - RN to Bachelor of Science Degree**

**Description**

The School of Nursing (SON) faculty recognizes the need and desirability for registered nurses to attain baccalaureate and master's degrees within Maine. The nursing faculty has designed two options for RNs - the first leading to a Bachelor of Science degree (B.S.) and the second (described in USM's Graduate Catalog) leading to a Master of Science degree.

**Program Requirements**

RNs returning to school face many challenges; every effort is made to remain attentive and flexible in adjusting the plan of study and accommodating individual needs. Advice regarding prerequisites, course planning, and course sequencing for RNs may be obtained by contacting the School of Nursing.

All RNs must fulfill the University's 30 credit residency requirement (6 credits earned at another UMS campus may be applied toward residency).

The SON recognizes a maximum of 30 nursing credits (RN credit options) transferred from an associate's degree in nursing (ADN) program as basic nursing credits required in the baccalaureate program. 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 will be awarded the basic nursing credits (30) for a fee, upon successful completion of NUR 308, Professional Communication and Technology Utilization in Nursing. Additional information may be obtained through the Office of Prior Learning Assessment.

**Recommended Course Sequence**

The following courses must be successfully completed, or may be available for credit by examination, prior to entry into the upper division nursing courses:

- College Writing
- General Psychology
- Introduction to Sociology
- Multicultural Human Development
- Ethical Inquiry, Social Responsibility, and Citizenship course
- Introduction to Statistics (prior to CON 321)
- Human Anatomy and Physiology I and II**
- Chemistry for the Health Sciences**
- Microbiology for the Health Sciences
- Pathophysiology

**Chemistry and anatomy and physiology requirements are waived with the successful completion (minimum grade of C) of pathophysiology.**

University requirements in general education or the Core curriculum must meet the progression standards of those curricula.
Matriculation in the USM School of Nursing is required prior to enrollment in upper-level nursing courses. The courses that RN students may take prior to matriculation are CON 356 and CON 321. NUR 308, NUR 309, and NUR 310 may be taken prior to matriculation provided the student has passed NCLEX-RN. Clinical courses may not be taken unless RN credit options have been completed and posted.

Upper division nursing courses, in required sequence for RNs, include:

A. NUR 308 Concepts of Professional Nursing
   NUR 309/310 Health Assessment for RNs and Health Assessment Lab for RNs

B. CON 321 Health-Related Research
   CON 356 Concepts in Community Health
   NUR 314 RN Credit Option*
   NUR 370 Theory for Clinical Practice

C. NUR 419 Community Nursing Partnerships for RNs
   NUR 474 Professional Issues: Leadership, Management, and Organization for RNs
   NUR 476 Theory Related to Clinical Specialty for RNs

*RNs graduating from a diploma program will be awarded the basic nursing credits (30) for a fee, upon successful completion of NUR 308, Professional Communication and Technology Utilization in Nursing. Additional information may be obtained through the Office of Prior Learning Assessment.

Unless previously approved, students must take all required CON and NUR courses at USM.

 Admission Information

Admission Requirements for the RN to BS Program

Admission to the RN to BS option is open to graduates of both diploma and associate degree nursing programs. Students may begin their program of study in either fall or spring semester.

The RN applicant must (a) meet the general admission requirements of the University, (b) provide evidence of current licensure as a registered nurse in Maine, and (c) have a GPA of 2.5 or better. Applications of those candidates with a GPA below 2.5 will receive consideration by the Undergraduate Admissions and Advancement Committee.

Deadline: Rolling admissions

For more information about this program, please contact the School of Nursing.

Certificate in Foundations of Holistic Health

Description

The Foundations of Holistic Health certificate program is designed for students interested in exploring the realm of complementary healing. Many courses are available online. Required courses may be taken over a maximum of three years.

Holistic health offers an integrated approach to health and well being. The School of Nursing Foundations of Holistic Health certificate program introduces students to the importance of addressing the intellectual, emotional, physical, and spiritual dimensions of health. The courses will examine foundational principles of holism; the basic philosophies, diagnostic techniques, and healing methods offered by many complementary healing modalities; benefits and challenges of alternative therapies; and the activities, attitudes, and choices that lead to whole and integrated health over a lifetime.

Note: Matriculation in the University of Maine system is not required, although students may choose to matriculate and transfer credits from the certificate program once completed. Course costs are concurrent with the current undergraduate tuition and fee schedule.

Program Requirements

Students must take four 3-credit courses for completion of the Certificate program, including two required courses and two electives from the list
A grade of C or better is required for all courses taken toward completion of the certificate program.

The following courses are required:

- HIH 280 Holistic Health I (formerly CON 280)
- REC/SPM 219 Lifetime Fitness and Wellness (formerly CON 219)

Students choose 2 elective courses from the following:

- HIH 261 Introduction to Naturopathic Medicine (formerly CON 261)
- HIH 270 Holistic Approaches to Reproductive Health (formerly CON 270)
- HIH 281 Holistic Health II (formerly CON 281)
- HIH 283 Healing and Spirituality (formerly CON 283)
- HIH 288 Reiki: Energy Medicine (formerly CON 288)
- HIH 490 Therapeutic Touch (formerly CON 490)
- NUR 203 Mindfulness Based Stress Reduction

**Admission Information**

For more information about this certificate program, please contact the School of Nursing. For information on admissions, please contact the Office of Admissions.

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**Minor in Holistic and Integrative Health**

**Description**

The holistic and integrative health minor is designed to provide the foundations and philosophies of a holistic and integrative approach to health care and to examine the fundamental world view, diagnostic methods, and healing techniques utilized in the practice of various complementary healing modalities. A primary focus of the minor is exploration of the issues that arise in moving toward an integrative approach to the needs of body, mind, and spirit. This minor is open to all USM students and may be of particular interest to students majoring in nursing and health professions, to students preparing for work in a complementary health care field, to students in psychology, social work, and anthropology, or to any student interested in addressing personal health in a holistic manner.

**Program Requirements**

The number of credits required to complete the minor: 18

Students may transfer up to six credits toward the completion of the minor from other universities.

**Foundational Courses (6 credits, required)**

- HIH 280 Holistic Health I (Formerly CON 280)
- HIH 281 Holistic Health II (Formerly CON 281)

**Healing modalities (complete 6 credits from the following)**

- HIH 261 Introduction to Naturopathic Medicine (Formerly CON 261)
- HIH 283 Healing and Spirituality (Formerly CON 283)
- HIH 284 Botanical Therapies (Formerly CON 284)
- HIH 288 Reiki: Energy Medicine (Formerly CON 288)
- HIH 490 Therapeutic Touch (Formerly CON 490)
- REC 285 Perspectives on Animal-Assisted Therapy (Formerly CON 285)
- REC 311 Psychosocial Interventions for Older Adults (Formerly CON 311)

**Wellness Knowledge and Development (complete 6 credits from the following)**

- CON 252 Human Nutrition
- HIH 270 Holistic Approach to Reproductive Health (Formerly CON 270)
- NUR 203 Mindfulness Based Stress Reduction
- REC 110 Foundations of Recreation and Leisure Studies
or

Two 1.5 credit RHF courses may be substituted for 3 credits under this category. Examples include:

- RHF 106 Ballroom Dance
- RHF 109 Beginning Weight Training
- RHF 118 Yoga
- RHF 122 Aerobic Kickboxing
- RHF 123 Introduction to Sea Kayaking
- RHF 124 T'ai Chi Qigong
- RHF 126 Stability and Physio-ball Exercise
- RHF 127 Pilates

*Other RHF courses may be substituted with permission of faculty.

**Admission Information**

To declare the Holistic and Integrative Health minor, please submit a Declaration of Minor form to the School of Nursing. For more information about the minor, please contact the School of Nursing.

**Undergraduate Nursing Policies**

- [Traditional BS in Nursing Policies](#)
- [Accelerated BS in Nursing Policies](#)
- [RN to BS in Nursing Policies](#)
- [Commitment to Civility](#)

**Traditional BS in Nursing Policies (Back to top)**

The University of Southern Maine has established academic policies as outlined in the Undergraduate Catalog. In addition to University policies, the School of Nursing (SON) maintains policies as described below.

**Clinical Requirements**

The University policy exempting immunization requirements for students born prior to 1956 does not apply to nursing students. Prior to entry into NUR 306/307 students must comply with School of Nursing clinical health and criminal background check requirements and any additional requirements of those health care agencies to which they are assigned for clinicals. Affiliates have the right to deny clinical placement based on criminal background. Denial of clinical placements will stop progression in the Undergraduate Nursing Program.

The costs incurred by a USM SON student for health requirements and the background check may qualify the student for additional loan eligibility and can be built into the financial aid costs of attendance and education. Students must request such consideration by the Financial Aid Office and provide documentation of the actual costs incurred.

Nursing courses carry additional fees to cover laboratory and clinical costs. A fee is also assessed each semester to cover the cost of standardized tests. This fee includes the cost of a review course at the end of the program. Nursing students must purchase uniforms and lab coats. Because clinical experiences occur in a variety of settings in the southern and central Maine area, students must provide their own transportation to rural as well as urban areas. Professional liability insurance is highly recommended for students in the nursing major and is required by some of our clinical agencies.

**Progression Policies**
Students must take all required CON and NUR courses at USM.

The lowest acceptable grade in required prerequisite courses and CON courses is a grade of C. The lowest acceptable grade in required NUR courses is a grade of C+.

Students must have a USM GPA of 2.75 in order to enroll in NUR 300/301 and 306/307. There must be no more than one year between completion of NUR 300/301, NUR 302, and NUR 306/307, and starting NUR 323/325 or the course/courses will have to be repeated. There must be no more than one year between taking didactic/clinical course combinations. Three or more semesters without taking didactic/clinical nursing courses require the student to repeat all didactic/clinical courses. Once a student begins NUR 323/325, the student must complete all degree requirements within four years.

In addition to having a 2.75 USM GPA, requisite to beginning junior-level clinical coursework, a student must achieve a natural science GPA of 2.67. The natural sciences consist of the following courses: anatomy and physiology I and II with labs, chemistry, microbiology with lab, human nutrition, and pathophysiology. Students who do not achieve a natural science GPA of 2.67 after completing all prerequisite courses may not begin junior-level clinical courses. Students then have a maximum of one year between completing NUR 300/301, 306/307 and raising their natural science GPA to 2.67 in order to begin 323/325. Science courses may be repeated only once.

Nursing lecture and clinical course combinations must be taken concurrently the first time a student is enrolled in each course. A grade of C or below in a nursing lecture course or an F in a nursing clinical course (see low pass policy below) will stop the student from registering for any other NUR clinical, NUR lecture, or partnership course. In addition, students who receive a failing grade in a required lecture or clinical course that finishes partway through the semester (or students who withdraw from a required lecture or clinical course partway through the semester) will be withdrawn from all other concurrent lecture or clinical courses (required or elective). The student must achieve a grade of C+ or better or a passing clinical grade in the course that is repeated before entering the next nursing lecture/clinical course combination. A course may be repeated only once.

A student may repeat a maximum of two CON or NUR required courses, clinical or didactic, in which the student receives an unacceptable grade (see grade requirements above). An unsatisfactory grade in a third CON or NUR required course will result in dismissal from the nursing program. If a student receives an F in an elective NUR clinical course, they may not register to repeat that clinical elective or enroll in any other NUR elective without permission of the Director of the School of Nursing.

The Undergraduate Admissions and Advancement Committee will review the academic record of any student who receives unsatisfactory grades in a given semester as follows:

1. Multiple unsatisfactory grades in prerequisite, nursing, and/or support courses;

2. A C-, D, F, or L in one or more prerequisite or support courses including required CON courses when repeating the course due to an unsatisfactory grade;

3. A C, D, F, or L in required NUR courses when repeating the course due to an unsatisfactory grade;

4. An F in a nursing clinical or partnership course.

Academic actions may include probation, suspension, or dismissal from nursing and/or the University. Matters of personal concern to the student will be considered. The Committee will recommend to the Director a decision regarding progression or dismissal. Appeals may be made to the Undergraduate Admissions and Advancement Committee. A request for exception to the policy must be initiated by the student.

Low Pass Grades

Low pass (LP) grades are used in clinical and partnership courses to inform students whose performance is near failing. Students are held accountable to address the weaknesses identified in their performance appraisal with subsequent clinical and partnership faculty. A second low pass grade constitutes an F and stops progression in clinical, didactic, and partnership coursework (see above progression policies).

Incomplete Grades

A grade of Incomplete may be assigned by a faculty member when a student, because of extraordinary circumstances, has failed to complete course requirements in a required NUR or CON course. Incomplete grades must be resolved satisfactorily to progress.

Retention Policies

The School of Nursing requires its part time and full time students to maintain standing according to hours completed. The following requirements are exceptions or additions to University policies:

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>For Good Standing</th>
<th>For Probationary Standing</th>
</tr>
</thead>
<tbody>
<tr>
<td>46-120</td>
<td>2.75</td>
<td>2.5-2.74</td>
</tr>
</tbody>
</table>

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By maintaining a 2.75 GPA or above during the upper-division years, the student maintains a standard appropriate to professional practice. The student must accomplish, as a minimum, a GPA for good standing according to the number of credits earned.

A student who is unable to maintain a grade point average of 2.75 but whose average remains above 2.5 is placed on probation within the School of Nursing. If placed on probation, a student has a maximum of two semesters to achieve a satisfactory cumulative GPA or the student will be suspended or dismissed. A student on probation may take support courses to restore their GPA to a level of 2.75 or above, at which point progress in nursing lecture and clinical courses may resume. While on probation, the minimum semester GPA accomplished must be the GPA for good standing according to the number of credits earned (see above) or the student will be suspended. A student is suspended for one semester; the student will be dismissed at the end of the next enrolled semester if the GPA requirement is not met. A student who is unable to maintain a grade point average of 2.5 will not be allowed to maintain matriculation in the School of Nursing and will be required to either change majors, be suspended, or be dismissed from the University according to its policies.

The School of Nursing reserves the right to accept and retain only those students who satisfy the requirements of scholarship and health necessary for nursing. A student who admits to or is found guilty of a violation of 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 criminal history record information relating to convictions denominated in Title 5, Chapter 341, Subsection 5301 of the Maine Revised Statutes Annotated.

**Graduation Requirements**

For graduation, no general education requirements or prerequisites may be taken pass-fail and no more than three credits of non-nursing elective may be taken pass-fail. Only one C- or D grade from the arts or humanities will be accepted. Otherwise, a minimum grade of C or above in these courses must be achieved. Grades of C- or below are not acceptable in any prerequisite course.

Traditional nursing students graduate in December or May. Summer graduation is limited to students in the Accelerated BS program. 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 120 credit hours with a minimum grade point average of 2.75.

**Accelerated BS in Nursing Policies**

The University of Southern Maine has established academic policies as outlined in the Undergraduate Catalog. In addition to University policies, the School of Nursing (SON) maintains policies as described below.

The University policy exempting immunization requirements for students born prior to 1956 does not apply to nursing students. Prior to entry into NUR 323/325, Accelerated BS in Nursing students must comply with School of Nursing clinical health and criminal background check requirements and any additional requirements of those health care agencies to which they are assigned for clinicals. Affiliates have the right to deny clinical placement based on criminal background. Denial of clinical placements will stop progression in the Undergraduate Nursing Program.

The costs incurred by a USM SON student for health requirements and the background check may qualify the student for additional loan eligibility and can be built into the financial aid costs of attendance and education. Students must request such consideration by the Financial Aid Office and provide documentation of the actual costs incurred.

Nursing courses carry additional fees to cover laboratory and clinical costs. A fee is also assessed each semester to cover the cost of standardized tests. This fee includes the cost of a review course at the end of the program. Nursing students must purchase uniforms and lab coats. Because clinical experiences occur in a variety of settings in the southern and central Maine area, students must provide their own transportation to rural as well as urban areas. Professional liability insurance is highly recommended for students in the nursing major and is required by some of our clinical agencies.

**Progression Policies**

SON Students must take all required CON and NUR courses at USM.

The lowest acceptable grade in required prerequisite and required CON courses is a grade of C. The lowest acceptable grade in required NUR courses is a grade of C+.
Nursing lecture and clinical course combinations must be taken concurrently the first time a student is enrolled in each course. A grade of C or below in a nursing lecture course or an F in a nursing clinical course (see low pass policy) will stop the student from registering for any other NUR clinical, NUR lecture, or partnership course. In addition, students who receive a failing grade in a required lecture or clinical course that finishes partway through the semester (or students who withdraw from a required lecture or clinical course partway through the semester) will be withdrawn from all other concurrent lecture or clinical courses (required or elective). The student must achieve a grade of C+ or better or a passing clinical grade in the course that is repeated before entering the next nursing lecture/clinical course combination. A course may be repeated only once.

A student may repeat a maximum of two CON or NUR required courses, clinical or didactic, in which the student receives an unsatisfactory grade (see grade requirements above). An unsatisfactory grade in a third CON or NUR required course will result in dismissal from the nursing program. If a student receives an F in an elective NUR clinical course, they may not register to repeat that clinical elective or enroll in any other NUR clinical elective without permission of the Director of the School of Nursing.

The Undergraduate Admissions and Advancement Committee will review the academic record of any student who receives unsatisfactory grades in a given semester as follows:

1. An unsatisfactory grade in a prerequisite, nursing, and/or support course;
2. A C-, D, F, or L in one or more prerequisite, required CON, or support courses when repeating the course due to an unsatisfactory grade;
3. A C, D, F, or L in required NUR courses when repeating the course due to an unsatisfactory grade;
4. An F in a nursing clinical or partnership course.

Academic actions may include probation, suspension, or dismissal from nursing and/or the University. Matters of personal concern to the student will be considered. The Committee will recommend to the Director a decision regarding progression or dismissal. Appeals may be made to the Undergraduate Admissions and Advancement Committee. A request for exception to the policy must be initiated by the student.

**Low Pass Grades**

Low pass (LP) grades are used in clinical and partnership courses to inform students whose performance is near failing. Students are held accountable to address the weaknesses identified in their performance appraisal with subsequent clinical and partnership faculty. A second low pass grade constitutes an F and stops progression in clinical, didactic, and partnership coursework (see above progression policies).

**Incomplete Grades**

A grade of Incomplete may be assigned by a faculty member when a student, because of extraordinary circumstances, has failed to complete course requirements in a required NUR or CON course. Incomplete grades must be resolved satisfactorily to progress.

**Retention Policies**

All policies applicable to students in the baccalaureate program (refer to Retention and Progression policies for the baccalaureate program above) also apply to students in the Accelerated BS program unless otherwise noted.

Students in the Accelerated BS program are required to maintain GPA of a 2.75. A student who is unable to maintain a grade point average of 2.75 but whose average remains above 2.5 is placed on probation within the School of Nursing. The status of such a student will be reviewed by the Undergraduate Admissions and Advancement Committee. A student who is unable to maintain a GPA of 2.5 will not be allowed to maintain matriculation in the School of Nursing and will be required to either change majors, be suspended, or be dismissed from the University according to its policies.

The School of Nursing reserves the right to accept and retain only those students who satisfy the requirements of scholarship and health necessary for nursing. A student who admits to or is found guilty of a violation of 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 criminal history record information relating to convictions denominated in Title 5, Chapter 341, Subsection 5301 of the Maine Revised Statutes Annotated.

**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 120 credit hours with a minimum grade point average of 2.75.
RN to BS in Nursing Policies

The University of Southern Maine has established academic policies as outlined in the Undergraduate Catalog. In addition to University policies, the School of Nursing (SON) maintains policies as described below.

Unless otherwise stated, all policies applicable to students in the baccalaureate program also apply to students in the RN to BS program.

Once a student is matriculated the student is required to notify the Coordinator of the Undergraduate Nursing Programs of any change in status of their RN license.

Prior to entry into NUR 419, RN to BS students must comply with any requirements of those health care agencies to which they are assigned for clinicals, which may include required criminal background checks. Affiliates have the right to deny clinical placement based on criminal background.

The costs incurred by a USM SON student for health requirements and background check may provide for additional loan eligibility and can be built into the financial aid costs of attendance and education. Students must request such consideration by the Financial Aid Office and provide documentation of the actual costs incurred.

Nursing courses carry additional fees to cover laboratory and clinical costs. Because clinical experiences occur in a variety of settings in the southern and central Maine area, students must provide their own transportation to rural as well as urban areas. Professional liability insurance is highly recommended for students in the nursing major and is required by some of our clinical agencies.

Progression Policies

Unless previously approved, students must take all required CON and NUR courses at USM.

The lowest acceptable grade in required NUR and CON courses and their prerequisite courses is a grade of C. Science courses may be repeated only once.

The Undergraduate Admissions and Advancement Committee will review the academic record of any student who receives unsatisfactory grades in a given semester as follows:

1. Multiple unsatisfactory grades in prerequisite, nursing, and/or support courses;
2. A C-, D, F, or L in one or more prerequisite, nursing and/or support course(s) when repeating the course due to an unsatisfactory grade;
3. An F in a nursing clinical or partnership course.

Academic actions may include probation, suspension, or dismissal from nursing and/or the University. Matters of personal concern to the student will be considered. The Undergraduate Admissions and Advancement Committee (UGAAC) will recommend to the Director a decision regarding progression or dismissal. Appeals may be made to the UGAAC. A request for exception to the policy must be initiated by the student.

The School of Nursing reserves the right to accept and retain only those students who satisfy the requirements of scholarship and health necessary for nursing. A student who admits to or is found guilty of a violation of the American Nurses' Association guidelines for ethical practice (see School of Nursing Student Handbook) is subject to suspension or dismissal from the University.

Low Pass Grades

Low pass (LP) grades are used in clinical and partnership courses to inform students whose performance is near failing. Students are held accountable to address the weaknesses identified in their performance appraisal with subsequent clinical and partnership faculty. A second low pass grade constitutes an F and stops progression in clinical, didactic, and partnership coursework (see above progression policies).

Incomplete Grades

A grade of Incomplete may be assigned by a faculty member when a student, because of extraordinary circumstances, has failed to complete course requirements in a required NUR or CON course. Incomplete grades must be resolved satisfactorily to progress.

Retention Policies

The following are exceptions or additions to University progression policies.

Both part-time and full-time students in the RN to BS program must maintain a 2.5 GPA in order to be in good standing. The academic record of a student in this program who is unable to maintain a GPA of 2.5 may be reviewed by the Undergraduate Admissions and Advancement
Committee which may recommend probation, suspension, or dismissal. If placed on probation, a student has a maximum of two semesters to achieve a satisfactory cumulative GPA or the student may be suspended or dismissed. While on probation, the minimum semester GPA accomplished must be at least 2.5 or the student may be suspended. If a student is suspended for one semester, the student may be dismissed at the end of the next enrolled semester if the GPA requirement is not met.

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 120 credit hours with a minimum grade point average of 2.50.

Commitment to Civility

The concepts of community and social justice are central to the mission and philosophy of the University of Southern Maine School of Nursing. Faculty, students, and staff are committed to promoting a healthy and just environment that supports transformative learning, academic integrity, open communication, and personal and professional growth among the diverse members of our academic community. We believe that these commitments are grounded in intellectual openness, in personal and professional accountability, and in the democratic values of inclusivity and mutual respect that are guided by rational discourse and by a relational ethic of care.

We are grateful for the opportunities to learn and work with peoples of diverse ethnic, racial, religious, cultural, political, social, and economic backgrounds as well as with people who are disabled and people of different gender, sexual orientation, and age. Acknowledging the ethics and values that underlie the health professions, it is our belief that these ethics and values should be recognized, practiced, and cultivated in our learning and work environments. Our goal is to increase the awareness of students, staff, and faculty to the importance of civility, its implications, and the behaviors that are acceptable and not acceptable in our learning community.

Civility is the art of treating others, as well as ourselves, with respect, dignity, and care. Civility is apparent when we are sensitive to the impact that our communications, practices, and behaviors have on others, and when we acknowledge each person's self-worth and unique contributions to the community as a whole.

As members of the School, we are committed to learning and practicing in ways that support a caring and socially just community. The following are examples of how we create and sustain civility.

- Support the autonomy and just treatment of self and others by facilitating an open, respectful, and caring environment.
- Accept responsibility and accountability for one's own behavior when interacting with students, faculty, and staff.
- Respect and protect the rights and property of others.
- Speak or behave in a manner that does not disrupt or interfere with the learning or work of others.
- Practice personal and academic integrity and expect it from others.
- Demonstrate respect for others by actively discouraging discriminatory conduct, bigotry, violence, coercion, or intimidation against any member of the academic community.
- Demonstrate a willingness to listen and be open to hearing the perspectives of others. This includes actively seeking to hear from and making a safe space for voices of dissent.
- Explore controversial issues through open dialogue and respectful deliberation.
- Respect freedom of expression while recognizing that such tolerance does not require agreement with expressed ideas.
- Engage institutional resources and persons to resolve conflict when necessary.

We will not tolerate harassing or discriminatory conduct of any form. Everyone has the responsibility to foster a safe and supportive learning and work environment. This commitment can include any individual asking others to stop disrespectful or abusive speech and/or disruptive behavior. Collectively, faculty, staff, and students in the School of Nursing are responsible for ensuring a safe and supportive learning and work environment.

Course Descriptions

- Undergraduate
- Graduate

Undergraduate

NUR 100 Introduction to Professional Nursing
This course orients students to the expectations of a baccalaureate education in nursing. Academic communication and critical thinking skills within the context of professional nursing are emphasized. Issues of ethical and professional accountability related to the role(s) of the nurse are explored. Historical and contemporary perspectives on the nature and scope of nursing practice are examined. Cr 3.

NUR 200 Introduction to Professional Nursing for Advanced Students
This course has been specifically designed for advanced students who are either transfer students with 60 or more credits or who have a degree in another field. The course introduces career opportunities in health care as well as how prior learning and work experiences might build on and blend into a career in nursing. The historical and contemporary perspectives on the nature and scope of nursing will be investigated through utilization of online resources, advanced library skills, writing, and online discussion. Other topics will include skills of communication, critical thinking, and the relationship between professional nursing and the broad base of theoretical and empirical knowledge derived from the behavioral and physical sciences and the humanities. Cr 3.

NUR 203 Mindfulness Based Stress Reduction
Mindfulness is about paying attention without judgment to what is being presented to us in our lives. The core of this course will be the practices of the Mindfulness-based Stress Reduction Program developed at the Center for Mindfulness at the University of Massachusetts Medical School. Students will study the results of research that show benefits of practicing Mindfulness. After learning these practices, students will explore ways to integrate Mindfulness into work, family, health, and relationships, particularly into teaching, nursing, social work, and counseling health professions. Cr 3.

NUR 211 Nursing Role for Accelerated BS Students
This seminar introduces Accelerated BS nursing students to content in nursing history, theory, and research. Students will consider the major constructs of nurse, health, and caring practice. It is a transitional course that seeks to prepare students for the accelerated programs of study at USM, to provide a framework for understanding professional education, and to explore the transition into nursing. Cr 1.

NUR 300 Health Assessment
This course provides knowledge and skills essential to conduct in-depth bio-psycho-social-cultural health assessment of well individuals throughout the life span. Emphasis is placed on data collection through effective communication and physical skills followed by data analysis and identification of nursing diagnoses. Concurrent with NUR 301. Prerequisites: Anatomy and Physiology I and II, cumulative GPA of 2.75, and NUR major. Cr 2.

NUR 301 Health Assessment Lab
This laboratory course provides knowledge and skills essential to conduct an in-depth bio-psycho-social-cultural, holistic health assessment of well individuals through the life span. Emphasis is placed on data collection through development of communication and physical examination skills. Data will be analyzed and nursing diagnoses developed. Concurrent with NUR 300. Cr 1.

NUR 302 Pharmacology
This course provides an overview of the principles of pharmacokinetics and pharmacodynamics. The major drug categories are reviewed with emphasis placed on the therapeutic use, action, and adverse reactions of selected prototype drugs. Emphasis is placed on the benefits and risks of drug therapy, thereby preparing the health professional for safe, therapeutic pharmacologic interventions. There is no clinical component to this course. For nursing majors, NUR 302 must be taken within one year of enrolling in NUR 323/325. Prerequisites: Anatomy & Physiology II and sophomore standing. Cr 3.

NUR 305 Fundamentals in Nursing Lab for Accelerated BS Students
This course focuses on the cognitive basis, scientific principles, and manipulative component of psychomotor skills used when implementing foundational nursing therapeutics, which promote, maintain, and restore the health of the client. Concurrent with NUR 306. NUR 305, offered in summer semester, is open only to Accelerated BS students. Cr 2.

NUR 306 Nursing Arts and Science
This course introduces the student to concepts and skills basic to the art and science of nursing. The nursing process is introduced as a problem-solving tool and is used along with scientific principles in the teaching of foundational nursing therapeutics used in most practice settings. Concurrent with NUR 305/307. Prerequisites: Anatomy and Physiology I and II, cumulative GPA of 2.75, and NUR major. Cr 3.

NUR 307 Fundamentals in Nursing Lab
This course focuses on the cognitive basis, scientific principles, and manipulative component of psychomotor skills used when implementing foundational nursing therapeutics, which promote, maintain, and restore the health of the client. Concurrent with NUR 306. Cr 2.

NUR 308 Concepts of Professional Nursing Practice
This course will explore the historical foundations, current issues, and future direction of professional baccalaureate nursing practice within the context of the current health care system. An emphasis is placed on the continued development of critical thinking, written, and oral communication skills for the baccalaureate nurse. Prerequisites: RN licensure (or permission of instructor), English Composition. Cr 3.

NUR 309 Health Assessment for RNs
This course provides the RN student with knowledge and skills essential to conduct in-depth bio-psycho-social-cultural health assessments of
well individuals. The course includes examination of the concepts of wellness and health promotion across the life span. Prerequisite: RN licensure. Cr 2.

**NUR 310 Health Assessment for RNs Lab for RNs**
This course provides the opportunities for the RN to apply knowledge and skills necessary to conduct total health assessments. Concurrent with NUR 309. Prerequisite: RN licensure. Cr 1.

**NUR 313 Intermediate Nursing Skills Lab**
This laboratory and simulation course builds on the theory, scientific principles, and psychomotor skills introduced in prerequisite courses. Its focus is to develop basic psychomotor and communication skills through kinetic learning in simulated clinical scenarios built from protocol cases from adult and older health course and clinical work. Demonstrations, role-playing, critical thinking and decision-making will be the framework for skill building. Active and independent laboratory participation will permit the student to demonstrate self-direction as a learner. Concurrent with NUR 323/325. Cr 1.

**NUR 314 RN Credit Option**
RNs graduating from accredited AD nursing programs will have 30 of their nursing credits accepted as equivalent to NUR 314. RNs who graduated from a diploma program will be awarded 30 basic nursing credits (a posting fee will be charged) upon successful completion of NUR 308 Professional Communication and Technology Utilization in Nursing. Prerequisites: RN licensure, NUR 308. Cr maximum 30.

**NUR 318 Evidence-based Practice in Nursing**
This online course introduces the student to evidence-based practice in nursing. Using models of critical appraisal, students learn competencies in the synthesis, integration, and evaluation of current best evidence for decision-making in advancing evidence-based nursing practice. This course is open to transfer students, accelerated students, and MS Option students who have taken a research course in quantitative methodology. The student must submit the prior course syllabus for evaluation. Cr 1.

**NUR 319 Qualitative Inquiry in Nursing**
This online course introduces the student to qualitative health-related research methodology. Students learn the qualitative research process, different approaches to research design, and the distinctive features of each qualitative design. Using models of critical appraisal of qualitative health-related research findings, students learn competencies in the synthesis, integration, and evaluation of qualitative inquiry for decision-making in advancing evidence-based nursing practice. This course is open to transfer students, accelerated students, and MS Option students who have taken a research course in quantitative methodology. The student must submit the prior course syllabus for evaluation. Cr 1.

**NUR 323 Adult/Older Adult Health Nursing**
During this course, students will explore evidence-based nursing therapeutics that support both the adult and the older adult client experiencing health problems. The course considers major health problems in the United States, focusing on nursing knowledge needed for care of adults and older adults experiencing acute and chronic alterations in health in a variety of care settings. This course will encourage students to develop and practice critical thinking skills necessary for delivery of family-centered care in today's complex health care system. The roles of collaboration, advocacy, and teaching are introduced as the student nurse interacts with clients and their support systems across the continuum of care. Prerequisites: NUR 100, 200, or 211; NUR 300/301; NUR 306/307 or 305; BIO 345; NUR 302 (within one year). Cr 3.

**NUR 325 Adult/Older Adult Health Nursing Clinical**
Students will intervene therapeutically with adults and older 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 323. Cr 4.

**NUR 326 Dominican Republic Community Nursing Partnership I Clinical**
Over two or three semesters, students will engage in partnership with an international community. This sequence of courses incorporates the concepts of partnership building, risk identification, and health promotion within a community-based context. Students will collaborate with community partners to develop an understanding of both short and long term needs of the community. Problem posing and problem solving will come from the community. Students will engage in ongoing community assessment, support communities in developing long term interventions/approaches, and engage in evaluation of community level practice. Students will identify individuals and families within their communities who would benefit from individual and family based nursing assessment, planning, intervention, and evaluation. Students will work with health care providers in these communities to assess the need for and to augment the services available. Students will engage in both formative and summative evaluation over the course of their interaction with the community. Students will consider issues of termination and continuation as they work with individuals, families, fellow students, and community partners over a two-year period. Advancing students will mentor entering students in the roles of community partner, advocate, and care provider. Cr 1.

**NUR 327 Dominican Republic Community Nursing Partnership II Clinical**
This international service learning course incorporates the concepts of partnership building, risk reduction, and health promotion in communities. Students will actively explore international health issues specific to Latin American countries and gain a more thorough understanding of environmental, socio-cultural, and political factors that affect health in a developing nation. Students will participate in partnership building with an international community-based organization to assess health risk factors and plan health promoting activities specific to identified health issues. Students will gain understanding of physical assessment, risk assessment, unique health needs, problem posing, and formulation of solutions as part of their coursework. During the course of this semester, students also participate with students from various disciplines in
This course examines the theory and practice of psychiatric/mental health nursing. Assessment of clients and intervention strategies are explored. Interdisciplinary aspects of mental health care delivery and current issues in mental health nursing are discussed. Prerequisite: NUR 302; Prerequisite or concurrent with NUR 300/301 and NUR 306/307. Cr 3.

NUR 331 Mental Health Nursing Clinical
This course offers students an opportunity to focus nursing practice on promotion, maintenance, and restoration of mental health. Clinical experience is provided in a mental health-psychiatric nursing setting. The emphasis is on application of concepts of mental health-psychiatric nursing. Concurrent with NUR 330. Cr 2.

NUR 332 Nursing Care of the Older Adult in the Community
The focus of this course is the family-centered care of older individuals in the community. Emphasis is on nursing assessment, diagnosis, and therapeutic interventions with individuals and families coping with chronic illnesses. Health promotion/risk reduction strategies are applied. The roles of the nurse in interdisciplinary community settings are explored. Ethical issues unique to community settings are analyzed. Prerequisite: NUR 323 or concurrent. Cr 3 (Fall 2017); Cr 2 (effective Spring 2018).

NUR 339 Community Nursing Partnerships I Clinical
This course is the first in a two-course series (NUR 339 and NUR 341). Over two semesters students will engage in a partnership with a specific community. This sequence of courses incorporates the concepts of partnership building, risk identification, and health promotion within a community-based context. Students will collaborate with community partners to develop an understanding of both short- and long-term needs of the community. Problem-posing and problem-solving will come from the community. Students will engage in ongoing community assessment, support communities in developing long term interventions and approaches, and engage in evaluation of community level practice. Students will identify individuals and families within their communities who would benefit from individual and family-based nursing assessment, planning, intervention, and evaluation. Students will work with health care providers in these communities to assess the need for services and augment the services available. Students will engage in both formative and summative evaluation over the course of their interaction with the community. Students will consider issues of continuation and termination as they work with individuals, families, fellow students, and community partners. Prerequisite or concurrent: CON 356 and NUR 323/325. Cr 2.

NUR 341 Community Nursing Partnerships II Clinical
This course is the second in a two-course series. See NUR 339 for description. Prerequisite: NUR 339. Cr 2.

NUR 370 Theory for Clinical Practice
This course focuses on the nursing profession and the process of knowledge development within the profession. The intent is to provide participants with opportunities to explore the processes of inquiry in nursing. Participants will have opportunities to explore various modes of nursing inquiry, including scientific, philosophical, and historical. Praxis, or the development of knowledge through the cycle of acquiring experience, reflecting on experience, and enhancing practice is central to understanding what influences nursing. Relationships between practice, theory, and research are explored. Four foundational concepts: personal meaning, ways of knowing, time/transitions, and context/culture serve to focus critical reflections in this course. In recognizing multiple ways of developing knowledge, participants have the opportunity to explore how practice may differ within varying perspectives. Prerequisite: RN to BS students or permission of instructor. Cr 3.

NUR 386 Geary Clinical Cooperative
This course is a combination of a two-credit elective nursing course offered during the summer and a paid summer experience (10 weeks full time with a Registered Nurse preceptor at Maine Medical Center). Students are socialized into the professional role of the nurse through hands-on experience, mentoring, observational experiences, and seminar discussions focused on evidence-based nursing practice. There are seminar meetings with instructor and assignments to complete throughout the summer. Prerequisite: NUR 323/325, GPA 3.0, and an accepted application for employment at Maine Medical Center. Cr 2.

NUR 419 Community Nursing Partnerships for RNs Clinical
This course incorporates the concepts of partnership building, risk identification, risk reduction, and health promotion within a community based context. Students work with selected communities that are developing long-term solutions to previously identified health problems. Open to RN students only. Prerequisites: Matriculation in USM SON, NUR 309/310, NUR 308, CON 356, RN licensure, and SON health requirements. Cr 2.

NUR 421 Reproductive and Sexual Health Nursing
This course focuses on the theory and research in reproductive and sexual health care. While emphasis is placed on holistic nursing care of
diverse healthy families from preconception through the childbearing process, high risk conditions, including end of life care for neonates, and the interventions necessary for successful adaptation are also discussed. Male and female reproductive health issues and nursing care across the lifespan will be presented. Prerequisite: NUR 323/325 or 523/542. Cr 3.

NUR 422 Reproductive and Sexual Health Nursing Clinical
This course offers students experience in providing holistic nursing care to individuals and families engaged in childbirth experiences. Emphasis is placed on health needs and alterations during the childbearing process, as well as promotion and maintenance of health before, during, and after childbirth. Concurrent with NUR 421. Cr 2.

NUR 423 Management of the Critically Ill Adult/Older Adult
The course will examine evidence-based therapeutic nursing interventions that support adult and older adult clients experiencing complex health problems. This course will encourage students to practice critical thinking skills necessary for delivery of ethical care to individuals and families experiencing high acuity illnesses. The roles of leader, collaborator, and coordinator are discussed as the nurse interacts with clients who are viewed as holistic beings. Prerequisites: NUR 421, NUR 422, NUR 427, and NUR 428. Cr 3.

NUR 424 Clinically-Applied Genetics
This course explores the genetic basis of human health and disease. It examines the specific mechanisms by which genetic differences give rise to altered body function and influence disease risk, and how these differences are inherited. It emphasizes the advances in genetics that impact the prevention, diagnosis, and treatment of illnesses and conditions. In so doing, it both addresses the basic science of genetics and explores related clinically-applied topics such as the ethical implications of genetics, genetic screening, genetic risk assessment, and gene therapy. Prerequisites: NUR 323 or consent of instructor. Cr 3.

NUR 425 Management of the Critically Ill Adult/Older Adult Clinical
Students will intervene therapeutically with adults and older 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 423. Cr 2.

NUR 427 Child Health Nursing
In this course, students examine family-centered nursing care in the health promotion and health care of children. Class discussions focus on theories, research, and literature related to health needs and common health problems of children. Family, heredity, environment, and socioeconomics are among the factors examined in discussions of nursing in child health. Prerequisites: NUR 323/325. Cr 3.

NUR 428 Child Health Nursing Clinical
Child health lab provides an opportunity for the student in various health care settings to apply the theoretical concepts of health promotion, maintenance, and restoration with children and their families who are at risk or may be experiencing alterations in health. Concurrent with NUR 427. Cr 2.

NUR 436 Community Nursing Partnerships I for Accelerated B.S. Students Clinical
In this course, students work within a community partnership to care for individual clients and families and work with residents in developing community-based health programs. This experience provides students with an opportunity to care for culturally diverse individuals, families, and groups. Leadership roles, including ongoing community partnership development, will be emphasized. Prerequisite or concurrent: CON 356 and NUR 323/325. Cr 2.

NUR 437 Community Nursing Partnerships II for Accelerated B.S. Students Clinical
Building on NUR 436, this course continues to focus on the experiences of partnership building with a diverse population in a community setting. The concepts of risk reduction and health promotion are applied to the development of an intervention with a segment of the community. Evaluation of the intervention is considered part of continuous community assessment as well as partnership development. Prerequisite: NUR 436. Cr 2.

NUR 470 Leadership, Management, and Ethics
Students explore professional and ethical issues that affect delivery of health care as well as the complexity of the nurse case management role using theories related to complex systems, leadership, and change. This course also provides an overview of the management and leadership roles in nursing practice with a major focus on organizational analysis, leadership and change theories, and quality improvement. This course must be taken the last semester in the curriculum. Cr 3.

NUR 474 Professional Issues: Leadership, Management, and Organizations for RNs
This course provides the RN student with an overview of the theoretical frameworks of management and leadership roles in nursing practice with a major focus on organizational analysis. Focus is on leadership and change theories, conflict management, and quality improvement for the delivery of health care services. Prerequisite: Matriculation in the USM SON. NUR 308, NUR 309/310. Cr 3.

NUR 476 Theory Related to Clinical Specialty for RNs
This course allows the RN student to develop and enhance clinical theory, knowledge, and practice using self-designed study with a focus on a self-selected clinical specialty. An overview of current theoretical models of care, nursing therapeutics, and evidence-based practice is provided and then used to develop a broader understanding of practice and care issues unique to the clinical specialty. Prerequisites: Matriculation in the
NUR 480 Practicum/Care Management Seminar and Clinical
This practicum provides a culminating intensive clinical experience that provides students with an opportunity to refine their clinical practice. The course emphasizes the integration of the multiple roles of nursing and serves as a vehicle for enhancing critical thinking and communication. The primary purpose of the course is to develop competency in nursing care, including organizational, prioritization, and decision-making skills. End of life issues and professional ethics as applicable to a wide range of settings will be explored. To the degree possible, students select a practicum site consistent with their area of special interest with seminar sharing of the issues of diverse roles, clients, settings, and philosophies of practice. All students will present orally and demonstrate competency utilizing technical presentation applications. Prerequisite: All theory-linked clinical courses must be taken prior to or concurrent with NUR 480. Concurrent clinical courses cannot be in clinical area of practicum placement. NUR 480 is the final clinical course. Cr 3.

College of Nursing (CON) and Holistic and Integrative Health (HIH) Courses

CON 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: Human Anatomy and Physiology II. Cr 3.

CON 321 Health-Related Research
Introduction to health-related research with an emphasis on understanding the research process and becoming a consumer of research. Critique of health-related research findings to health professions and their application to professional practice is a major component of this course. For nursing majors, CON 321 must be completed before taking any 400-level nursing course. Prerequisite: PSY 201, LCC 150, or MAT 120. Cr 3.

CON 356 Concepts in Community Health
This course introduces the concepts and principles basic to the development and maintenance of the community's health. The epidemiological process guides the survey of current major health issues. The course focuses on the health issues of groups in the community at local, state, national, and global levels. Cr 3.

CON 495 Dominican Republic Directed Study
Cr varies.

CON 497 Substance Use and Abuse: Issues and Policies
This course is an interdisciplinary examination and study of issues and policies surrounding alcohol and other drugs. Emphasis is placed on epidemiology; pharmacology; theoretical models; strategies for prevention, treatment, and relapse prevention; needs of special populations; and ethical, legal, and socio-political aspects surrounding addiction. Cr 3.

HIH 261 Introduction to Naturopathic Medicine
This course offers a comparative study of conventional and naturopathic medical models. Naturopathic medicine integrates current medical science with traditional natural therapies to promote health and to prevent disease. Students will gain an understanding of naturopathic principles, philosophy, and treatment modalities including nutrition, homeopathy, herbal medicine, mind-body techniques, and environmental medicine. Cr 3.

HIH 270 Holistic Approaches to Reproductive Health
This course will enable the student to look critically at reproductive health options through the lifespan. Through readings, podcasts, PowerPoint presentations, and online discussions, we will weigh evidence related to alternative, complementary, and natural approaches to managing reproductive health issues. The course will follow a life span, growth, and development approach. Course topics will include natural family planning methods, holistic contraception, infertility and pregnancy issues, holistic birth support skills, and holistic care of the newborn after birth. In addition, adult reproductive issues will be covered including menopause, erectile dysfunction, and sexuality in aging. The student will participate online via the discussion board, online quizzes, short essays, and complete an assignment to create a holistic teaching page related to a reproductive health topic. Offered as an online course. Cr 3.

HIH 280 Holistic Health I
This course explores the realm 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, meditation, therapeutic movement and massage, music, 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.

HIH 281 Holistic Health II
This 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, forgiveness, energy, and thought communication. Spiritual and metaphysical dimensions will be integrated as they relate to the total well-being of the individual. The primary goal is to become conversant with holistic approaches that are widely used in promoting and supporting self-healing and transformation in both self and others. Prerequisite: HIH 280 or permission of instructor. Cr 3.
HIH 283 Healing and Spirituality
This course will explore the links between spiritual understandings and physical and mental health. Focusing on global spiritual and religious traditions, the course will examine the determinants of health and the healing techniques utilized in each faith. We will also examine the ways in which religious values and expectations become internalized and affect the ways in which we interpret our wellness and our discomforts. This course is designed to offer an opportunity to become familiar with the world's faith traditions and to explore spirituality as it relates to healing, both personally and institutionally. Cr 3.

HIH 284 Botanical Therapies
The use of medicinal plant remedies can offer a rich, effective, and safe addition to health care for a variety of common illnesses and conditions. With dramatic increase in use of herbal preparations, however, questions of effectiveness and safety arise for both health care consumers and their providers. This course will give the historical background on the use of medicinal plants in the U.S. and Europe, examine the current legal status of plant remedies and herbal practitioners, review the most commonly used botanical remedies available, and discuss the benefits and risks that attend the use of these and other medicinal plant preparations. Cr 3.

HIH 288 Reiki: Energy Medicine
This class will provide the student with Reiki Level I and II certification. Reiki is an ancient form of healing from Tibet. Rei means universal life, Ki means energy. Reiki means life for energy and is based on the idea that we are energy. Reiki is a hands-on, light touch, healing energy. Many healthcare organizations are interested in alternative or complementary approaches to care and are offering services such as Reiki to help decrease pain, anxiety, depression, and aid in the comfort and well-being of their clients. To provide these services there are additional training and certifications required. The class will combine both lecture and hands-on experiences. In addition, the class will engage in service learning by providing Reiki treatments to the community. Cr 3.

HIH 490 Therapeutic Touch
This course will introduce the theory and practice of the Krieger-Kunz method of Therapeutic Touch. Concentration will be on the practice of Therapeutic Touch as an intentionally directed process of energy exchange, using the hands to facilitate the movement of energy and restoring balance to the energy system of the human body. The course will focus on the understanding of the basic principles of the human energy field, intuition, intentionality, benefits, theory, principles, process, and experiential learning of the Therapeutic Touch technique. Through readings, lecture, demonstrations, and practice, students will integrate the TT process with considerations of creating a healing environment, the ethics of practice, and integrating holistic health and self-care. Cr 3.

Graduate (back to top)

NUR 519 Introduction to Forensic Nursing
This introductory course provides the student with knowledge and nursing strategy to better meet the needs of those affected by forensic-related health care situations and ultimately improve patient outcomes. The history and development of forensic nursing as a scientific subspecialty of nursing is explored. The forensic nursing process; application of the forensic nursing role (i.e., sexual assault management, death investigation, child death review, abuse/neglect, emergency department); violence and victimology; injury identification and interpretation; evidence recognition, collection, preservation, and documentation; and forensic nursing and the medical/legal interface are also explored. Cr 3.

NUR 524 Clinically-Applied Genetics
This course explores the genetic basis of human health and disease. It examines the specific mechanisms by which genetic differences give rise to altered body function and influence disease risk, and how these differences are inherited. It emphasizes the advances in genetics that impact the prevention, diagnosis, and treatment of illnesses and conditions. In so doing, it both addresses the basic science of genetics and also explores related clinically-applied topics such as the ethical implications of genetics, genetic screening, genetic risk assessment, and gene therapy. NUR 524 will include an additional 1-hour per week seminar. Prerequisite: NUR 541 or consent of instructor. Cr 3.

NUR 595 Dominican Republic: Directed Study
Cr varies.

NUR 601 Advanced Pharmacotherapeutics
This course builds upon undergraduate understanding of pharmacological principles and agents by preparing students to evaluate and prescribe medications for common preventative, acute, and chronic health problems across the lifespan. The regulatory aspects of drug administration and prescription from the perspective of advanced nursing practice are examined. The development of clinical decision-making skills essential to safe, effective, and ethical pharmacological interventions are the focal point of the course. Current concepts in pharmacogenomics and pharmacological therapies as part of the treatment of commonly encountered health problems are stressed. Cr 3.

NUR 602 Advanced Health Assessment
This course builds upon and extends undergraduate knowledge of anatomy, physiology, pathophysiology, and health assessment of individuals across the lifespan. Physical assessment and diagnostic reasoning skills needed for advanced practice nurses are emphasized. Abnormal assessment findings are related to underlying pathophysiology. Cr 4.

NUR 603 Nursing Theory and Knowledge Development
Contemporary issues in theory development and the social production of knowledge for nursing are explored in this course. The social and
historical context of knowledge development in nursing are examined with an emphasis on the relationship between theory, research, and practice in nursing. Cr 3.

NUR 604 Nursing Research
This course prepares nurses in advanced practice to appraise and use research and other evidence to provide high quality health care, initiate change, improve nursing practice, and evaluate their own practice systematically. Emphasis is on developing relevant clinical questions, searching for studies and other evidence, systematic appraisal of evidence, and determining whether and how to apply the findings. Commonly used research designs are explained. Strategies for organizing evidence and implementing evidenced-based practice changes are explored. This course is a prerequisite for NUR 658. Cr 3.

NUR 606 Leadership, Health Policy, and Role
The complexity of the American Health Care System and current efforts to restructure the system are examined in this course. Past, current, and potential roles of advanced practice nurses related to access, and the goals of Healthy People 2020 are examined. Socio-political, economic, and ethical issues embedded in public policy decisions are explored. Attention is given to the role of advanced practice nurses in influencing, creating, and implementing policy in diverse populations across the lifespan. Cr 3.

NUR 608 Applied Theories of Advanced Interpersonal Skills
Theories of communication, group, family/developmental, stress, consultation, and crisis are examined as they relate to interpersonal relations. The emphasis is on the acquisition of advanced communication skills and strategies for analyzing effective and ineffective communication. Self-reflection is an underlying thread when applying a range of theories to practice. Cr 3.

NUR 624 An Interprofessional Approach to Population-Based Health
An interprofessional approach to caring for populations across the lifespan is the focus of this course. Major components include concepts of health, levels of prevention, epidemiology of wellness, global health issues, and control of health problems. Community assessment, planning, intervention, and evaluation of complex and chronic health related issues are stressed. Cr 3.

NUR 625 Principles of Health Care Finance
An introduction to health care financial management principles, practices, tools, and models is the focus of this course. The relationships between financial management and quality outcomes will be explored. Information systems and technology will be used to plan, monitor, and evaluate fiscal resources for practice and program initiatives. Cr 3.

NUR 628 Health Systems, Policy, and Economics
A critical analysis of socioeconomic, political, legal, ethical, and global factors that affect health care delivery is emphasized. The relationships among policy, economics, and outcomes are explored. The focus is on the role of the nurse to influence health care policy, quality improvement, and financial decision making of health care delivery, equity in access, and patient safety. Cr 3.

NUR 636 Foundations of Nursing Education
This is the first of three sequential courses designed to prepare the professional nurse for teaching roles. Historical and philosophical underpinnings of education are explored. Emphasis is given to reflection on personal experience, exploration of current issues in nursing education, nursing education theory, and critical analysis of theories of learning and teaching. Cr 3.

NUR 637 Methods of Education in Nursing
This is the second of three sequential courses designed to prepare the professional nurse for teaching roles. Components of course and curriculum development including assessment of learners' needs, course objectives and outcome measures, content selection and development, and teaching strategies are examined. Emphasis is on developing expertise as an educator by increasing sensitivity, knowledge, and skill in creating effective teaching programs that reflect an understanding of the learner, context, and content. Cr 3.

NUR 638 Education Practicum and Seminar
This is the third of three sequential courses designed to prepare the professional nurse for teaching roles. In this course the concept of "praxis" is fully realized. With guidance from the faculty, students will select an educational experience to develop, implement, and evaluate. Experiences may include, however are not limited to, in-service programs, classroom and clinical teaching, and community education programs. Cr 3.

NUR 650 Primary Care of the Adolescent
The emphasis in this course is on evidence-based assessments and interventions for adolescents. Anticipatory guidance and education for the parents of these adolescents and strategies for prioritizing adolescent and family health care and health education needs are emphasized. Cr 1.

NUR 651 Women's Health in Primary Care
This course is designed to prepare advanced practice nurses to provide women's health care from adolescence to geriatrics in the primary care setting. The emphases are on prevention, promotion, maintenance, and restoration of health. Evidence-based approaches to assessment, intervention, and evaluation of women's health issues are addressed. Cr 1.

NUR 652 Primary Care Management of the Well Child
The emphasis in this course is on evidenced-based assessments and interventions for well infants and children. Anticipatory guidance and
education for the parents of these children and strategies for prioritizing child and family healthcare and health education needs are emphasized. Cr 1.

**NUR 653 Primary Care of the Child with Episodic Illness**
The emphases are on assessment and interventions for children with acute illnesses and education for the parents and children. Development of physical and psychosocial assessment and intervention skills specific to the pediatric population in the primary care setting are addressed. Decision making related to prioritizing child and family health care and health education needs is emphasized. Cr 2.

**NUR 654 Prenatal Care in Primary Care**
This course is designed to prepare advanced practice nurses to provide primary care to the well prenatal woman. Focus is on health promotion, assessing and minimizing risk, and preventing complications. Emphasis is on collaboration and ensuring continuity of care. Cr 1.

**NUR 658 Graduate Clinical Project**
This course is designed to promote the effective application of research and other evidence to clinical practice. Examples may include evaluating and/or modifying current practice standards, disseminating research results, increasing clinical application of evidence-based interventions, or adapting and designing a research-based intervention. Prerequisite: NUR 604. Cr 3.

**NUR 660 Continuing Advanced Psychiatric-Mental Health Nursing Supervision**

**NUR 664 Primary Health Care of the Adult I**
This is the first of three sequential theory courses in the family nurse practitioner concentration. Emphasis is on the provision and primary care to individuals and families in the context of community. Assessment, diagnosis, intervention, and management strategies related to acute episodic care and health maintenance of adolescent, adult, and older adult populations are stressed. Particular focus is on the development of physical, psychosocial, and cultural assessment and intervention skills specific to these populations in primary care settings. Prerequisites: BIO 545, NUR 601, and NUR 602. Cr 3.

**NUR 665 Primary Health Care of the Adult II**
This is the second of three sequential theory courses in the family nurse practitioner concentration. Emphasis is on the provision of health promotion and primary care to adolescents through older adult in the context of community. Within the context of chronicity, the emphases are on assessment, diagnostic, intervention, and management strategies related to long-term health problems and the accompanying social and cultural issues in adolescent, adult, and older adult populations. Particular focus is on the interdisciplinary and collaborative aspects of the advanced practice, direct care for selected groups, and principles of evidenced-based practice. Prerequisites: NUR 664 and NUR 667. Cr 3.

**NUR 666 Primary Health Care of the Adult III**
This is the final of three sequential theory courses in the family nurse practitioner concentration. Emphasis is on the provision of health promotion and primary care to older adults. The focus is on gerontological concerns and complex health issues. Emphasis is on evidence-based approaches to assessment and management of older adults within the context of family and community across settings. Prerequisites: NUR 665 and NUR 668. Cr 3.

**NUR 667 Clinical Practicum and Seminar I**
This is the first of three sequential practicums/seminars in the family nurse practitioner concentration. Emphasis is on providing health promotion and primary care to individuals and families in the context of community. The application of assessment, diagnostic, intervention, and management strategies to selected populations who need acute care and health maintenance is stressed. Particular focus is on using physical, psychosocial, and cultural assessment and intervention skill, and reflection on process issues related to clinical practice. Must be taken concurrently with NUR 664. Cr 3.

**NUR 668 Clinical Practicum and Seminar II**
This is the second of three sequential practicums/seminars in the family nurse practitioner concentration. Emphasis is on providing health promotion and primary care to individuals and families in the context of the community. The application of assessment, diagnostic, intervention, and management strategies to selected populations related to long-term health problems and the accompanying social and cultural issues is stressed. Particular focus is on the integration and application of didactic information into clinical practice, development and refinement of the clinical decision-making process, critical evaluation of evidenced-based decisions, and reflection on process issues related to clinical practice. Must be taken concurrently with NUR 665. Cr 3.

**NUR 669 Clinical Practicum and Seminar III**
This is the final of three sequential practicums/seminars in the family nurse practitioner concentration. Emphasis is on providing health promotion and primary care to individuals and families in the context of community. The application of assessment, diagnostic, intervention, and management strategies in selected populations across the lifespan with emphasis on the older adult is stressed. Emphasis is also on the refinement of skills reflective of beginning-level competency as an advanced practice nurse. Must be taken concurrently with NUR 666. Cr 3.

**NUR 671 Foundations of Advanced Practice Mental Health Nursing**
The focus of this course is the advanced practice role of psychiatric-mental health nurses. Specific emphasis is on advanced mental health assessment across the lifespan and the initial clinical interview from a theoretical and research perspective. The health care environment is
discussed and implications for psychiatric mental health nursing practice and research are examined. Cr 3.

NUR 672 Biological and Behavioral Components of Mental Health and Illness
Mental health and illness across the lifespan are examined in this course. Various theories and their application to mental health are addressed. Foundations of mental health and typical clinical presentations of acute and chronic psychiatric illnesses are explored. Major psychiatric disorders and medical mimics are discussed with an emphasis on use of the DSM criteria and the formulation of differential diagnoses. Cr 3.

NUR 673 Clinical Practicum and Seminar I
This is the first of three sequential practicums/seminars in the psychiatric-mental health nurse practitioner concentration. The application of theory in working with adults and older adults is the focus of this clinical course with emphasis on individual psychotherapy. Pharmacological interventions and effective medication management are integrated. Must be taken concurrently with NUR 674. Cr 3.

NUR 674 Advanced Psychiatric-Mental Health Care of Adults and Older Adults
This is the first of three sequential theory courses in the psychiatric-mental health nurse practitioner concentration. The focus of this course is to examine the theoretical and evidenced-based practice foundations of advanced psychiatric nursing with adults and older adults. Specific emphasis is on interventions with individuals who have Axis I and Axis II diagnoses based on the DSM criteria. Prerequisites: BIO 545, NUR 671, NUR 672, NUR 680. Prerequisite or concurrent enrollment in NUR 601 and NUR 602. Cr 3.

NUR 680 Advanced Psychopharmacology
Clinical application of pharmacotherapeutic principles to psychiatric disorders across the lifespan are examined. Theory and principles of neurobiology are analyzed and applied. Drug pharmacodynamics, pharmacokinetics, pharmacogenomics, indications, contraindications, interactions, and side-effects are evaluated. Methods for evaluating efficacy of treatment and adjustment of pharmacotherapeutic regimens are emphasized. Cr 3.

NUR 682 Orthopedic Evaluation and Treatment for the Primary Health Care Professional
Current clinical literature on the prevention, recognition, assessment, and treatment of sports-related orthopedic conditions that occur in the physically active is reviewed in this course. A lab component is included that provides practice in common orthopedic screening techniques as part of pre-participation screening as well as practice in evaluation of sports-related injuries and initial interventions. Cr 3.

NUR 683 Advanced Psychiatric-Mental Health Care of Children, Adolescents, and Families
This is the second of three sequential theory courses in the psychiatric-mental health nurse practitioner concentration. The mental needs of children and adolescents in the context of families are explored. Developmental frameworks are utilized to examine common psychiatric diagnoses including symptom clusters and comorbidities. Emphases are on the approaches to assessment, diagnosis, and management of children and adolescents with a range of mental needs reflective of evidenced-based research. Cr 3.

NUR 684 Clinical Practicum and Seminar II
This is the second of three sequential practicums/seminars in the psychiatric-mental health nurse practitioner concentration. The application of theory and evidenced-based practice in assessment, diagnosis, and management of children and adolescents in the context of families is the focus of this course. Pharmacological interventions and effective medication management are integrated. Must be taken concurrently with NUR 685. Cr 3.

NUR 685 Advanced Psychiatric-Mental Health Care of Groups and Vulnerable Populations
This is the final of three sequential theory courses in the psychiatric-mental health nurse practitioner concentration. The focus of this course is to examine the theoretical foundations of complex systems, groups, and vulnerable populations across the lifespan. Cr 3.

NUR 686 Clinical Practicum and Seminar III
This is the final of three sequential practicums/seminars in the psychiatric-mental health nurse practitioner concentration. The application of theory in working with groups and vulnerable populations across the lifespan is the focus of this clinical. Emphasis is on integrating knowledge, attaining advanced practice competencies, and working collaboratively with members of the health care team in providing holistic care to clients. Pharmacological interventions and effective medication management are integrated. Must be taken concurrently with NUR 687. Cr 3.

NUR 690 Role Seminar
The major focus of the seminar is to prepare students to make a successful transition from graduate student to advanced practice nurse. Issues such as becoming credentialled, negotiating a contract, developing a portfolio, networking, resume writing, and utilization of resources will be addressed. Emphasis is placed on developing strategies for negotiating systems and creating work environments supportive of novice advanced practice nurses. Cr 1.

NUR 695 Directed Study
A student will select a faculty member to guide readings to a chosen topic. A research paper may be required. Credit allocation up to 3 credits is negotiated with faculty. Cr 1-3.

GRS 701 Doctoral Continuation Credits
This is a one-credit course that permits doctoral degree candidates registered for less than 6 credits to retain eligibility for financial aid, university-
funded fellowships, scholarships, graduate assistantships, student health insurance, loan deferment, visa compliance, and access to University services, including USM computers, library, and recreational facilities. Requirements include receiving certification of adequate academic progress from the program coordinator and dissertation/capstone chair, and obtaining approval from the Office of Graduate Studies. Cr 1.

NUR 700 Genetics and Immunology: Scientific Foundations for Practice
This course provides an integrated discussion of the vital basic science concepts in the areas of genetics and immunology that underlie advanced nursing practice. Emphasis is placed on those aspects of basic science that are most directly applicable to the understanding of disease processes and advanced nursing practice. In the area of genetics this includes the analysis of genetic information for decision making around disease management and the communication of genetic information to others. In the area of immunology it includes understanding how the immune system contributes to disease and how it can be manipulated as part of disease therapy. Cr 4.

NUR 701 Ethical Approaches to Practice Dilemmas
Examination of selected ethical frameworks and their application to practice are the focus of this course. Exemplars are used to illustrate how the principles of ethics can guide decision making when a clinical, organizational, interprofessional, or research dilemma occurs. Emphasis is on development of the leadership qualities necessary for the implementation of the DNP role. Cr 3.

NUR 702 Informatics Technology
The contributions of health care information to quality assurance and improvement in patient care is the focus of this course. Factors that contribute to the adoption of health care information technologies and the challenges regarding their successful utilization are examined. Health care information technologies used in the assessment of patient outcomes, provider productivity, and health care programs are analyzed. Cr 3.

NUR 703 Professional Communication
Effective communication is a hallmark of a good leader. Examination of advanced communication skills within various clinical settings, organizations, and communities are the focus of this course. In addition, leadership styles and setting a climate that enhances communication will be analyzed. Cr 3.

NUR 704 Models of Care: Transforming the Practice Environment
The goal of this course is to provide the DNP student with the knowledge and skills necessary to assume a leadership role in transforming healthcare and educational environments. Concepts associated with evidenced-based nursing practice models are introduced and examined. Strategies for creating a culture of evidenced-based practice for individuals, aggregates, and systems are identified. The concepts of information management and translation science are examined and tools to apply evidence to practice are emphasized. Cr 3.

NUR 705 Clinical Residency and DNP Project I
This is the first of two seminar/clinical practicums in the DNP concentration designed to expand the student’s breadth and depth of clinical knowledge and skills in an area of practice. Emphasis is on developing and demonstrating leadership expectations within the framework of the DNP role. This is accomplished by application of clinical knowledge to deliver or create, implement or evaluate practice interventions, health delivery systems, and clinical teaching. Each residency includes a capstone project. The focus of this project in the first residency is on assessment and either an implementation or intervention project at a group or organizational level. Cr 6.

NUR 706 Clinical Residency and DNP Project II
This is the second of two seminar/clinical practicums in the DNP concentration designed to expand the student’s breadth and depth of clinical knowledge and skills in an area of practice. Emphasis is on developing and demonstrating leadership expectations within the framework of the DNP role. This is accomplished by application of clinical knowledge to deliver or create, implement or evaluate practice interventions, health delivery systems, and clinical teaching. This residency includes a continuation of the capstone project. The focus of this project in the second residency is on evaluation of the project implemented or intervention delivered in the previous semester and disseminating the knowledge learned. Cr 6.

NUR 710 Seminar I
This is the first in a series of seminars that provides the DNP student with mentored opportunities to develop an independent, analytic, scholarly DNP project proposal focusing on problems of practice within specific populations. Using Quality Improvement methods, students will begin to identify their DNP Project population, problem, and questions and choose a faculty mentor and project team that will work with them through the conclusion of their DNP Project. Emphasis will be placed on the student developing a focused leadership skill set appropriate for leading a QI effort and facilitating the DNP Project team's work, as well as the development of scholarly writing skills. Cr 1.

NUR 711 Seminar II
This is the second in a series of seminars that guide the DNP student through the formulation of a DNP Project. The DNP student will work with a faculty mentor and DNP Project team to refine the design of the DNP project. Students will provide an oral presentation of the intended DNP project and complete a CITI course. Each student will be required to submit individual objectives at the end of the semester for the coming semester’s plan of work. Emphasis will be placed on the continued development of effective oral and written presentation skills. Cr 1.

NUR 712 Seminar III
This is the third in a series of seminars that guide the DNP student through the development, implementation, and completion of their DNP Project. At the end of this seminar, the student will have successfully presented their DNP Project proposal, selected a practice site and preceptor, and outlined their objectives for the next semester. Cr 1.
NUR 713 Seminar IV
This is the fourth in a series of seminars that guide the DNP student through the development, implementation, and completion of their DNP Project. During this semester, the student must successfully submit their DNP Project to the IRB committee for approval and begin their project. Cr 1.

NUR 714 Seminar V
This is the fifth in a series of seminars that guide the DNP student through the development, implementation, and completion of their DNP Project. During this semester, the student will have completed their project and data gathering. Cr 1.

NUR 715 Seminar VI This is the final seminar in the series. During this semester the student will polish their DNP Project and present the final product to their peers, faculty, and other professionals in the community. Cr 1.

MS Option Program Courses

CON 521 Health-Related Research for MS Option Students
Introduction to health-related research with an emphasis on understanding the research process and becoming a consumer of research. Critique of health-related research findings to health professions and their application to professional practice is a major component of this course. MS Option students must complete CON 521 before enrolling in NUR 541. Prerequisite: PSY 201 or MAT 120. Cr 3.

CON 556 Concepts in Community Health for MS Option Students
This course introduces the concepts and principles basic to the development and maintenance of the community's health. The epidemiological process guides the survey of current major health issues. The course focuses on the health issues of groups in the community at local, state, national, and global levels. Cr 3.

NUR 502 Pharmacology for MS Option Students
This course provides an overview of the principles of pharmacokinetics and pharmacodynamics. The major drug categories are reviewed with emphasis placed on the therapeutic use, action, and adverse reactions of selected prototype drugs. Emphasis is placed on the benefits and risks of drug therapy, thereby preparing the nursing student for safe, therapeutic pharmacologic interventions. First semester of curriculum. For nursing majors, NUR 502 must be taken within one year of enrolling in NUR 541/542. Cr 3.

NUR 508 Health Assessment Lab for MS Option Students
The course provides knowledge and skills essential to conduct an in-depth bio-psycho-social-cultural, holistic health assessment of well individuals through the lifespan. Emphasis is placed on data collection through development of communication and physical examination skills. Data will then be analyzed and nursing diagnoses developed. Concurrent with NUR 509. NUR 508 is offered in the summer and is open only to MS Option students. Cr 1.

NUR 509 Health Assessment for MS Option Students
This course provides knowledge and skills essential to conduct in-depth bio-psycho-social-cultural health assessment of well individuals throughout the lifespan. Emphasis is placed on data collection through effective communication and physical skills followed by data analysis and identification of nursing diagnostics. NUR 509 is offered in the summer and is open only to MS Option students. Cr 2.

NUR 511 Nursing Role for MS Option Students
This seminar introduces MS Option nursing students to content in nursing history, theory, and research. Students will consider the major constructs of nurse, health, and caring practice. It is a transitional course that seeks to prepare students for the accelerated programs of study at USM, provide a framework for understanding professional education, and for exploring the transition into nursing. Cr 1.

NUR 512 Nursing Arts and Science for MS Option Students
This course introduces the student to concepts and skills basic to the art and science of nursing. The nursing process is introduced as the problem-solving tool and is used along with scientific principles in the teaching of foundational nursing therapeutics used in most practice settings. First semester of curriculum. NUR 512 is offered in the summer semester and is open only to MS Option students. Cr 3.

NUR 513 Advanced Nursing Skills Lab for MS Option Students
This course builds on the theory, scientific principles, and psychomotor skills introduced in NUR 512/514 to promote role development in the core competencies of nursing practice. Prerequisites: NUR 512 and 514, concurrent with NUR 523, and 526. NUR 513 is offered in the spring semester and is open only to MS Option students. Cr 1.

NUR 514 Fundamentals in Nursing Lab for MS Option Students
Provides an historical and contemporary perspective on the nature and scope of nursing and focuses on theory, scientific principles, and psychomotor skills used to implement the foundational nursing therapeutics that promote, maintain, and restore the health of the client. Concurrent with NUR 512. NUR 514 is offered in the summer semester and is open only to MS Option students. Cr 3.

NUR 516 Child Health Nursing Clinical for MS Option Students

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Child health lab provides an opportunity for the student in various health care settings to apply the theoretical concepts of health promotion, maintenance, and restoration with children and their families who are at risk or may be experiencing alterations in health. Concurrent with NUR 545. NUR 516 is offered in the spring semester and is open only to MS Option students. Cr 2.

**NUR 523 Management of the Critically Ill Adult/Older Adult for MS Option Students**
Students examine evidence-based therapeutic nursing interventions that support adult and older adult clients experiencing complex health problems. Viewing clients as holistic beings, students study and analyze the skills necessary for delivery of care to high acuity adult and older adult clients. Concurrent with NUR 526. NUR 523 is offered in the spring semester and is open only to MS Option students. Cr 3.

**NUR 526 Management of the Critically Ill Adult/Older Adult Clinical for MS Option Students**
MS Option students will intervene therapeutically with adults and older 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 523. NUR 526 is offered in the spring semester and is open only to MS Option students. Cr 4.

**NUR 530 Mental Health Nursing for MS Option Students**
This course examines the theory and practice of psychiatric/mental health nursing. Assessment of clients and intervention strategies are explored. Interdisciplinary aspects of mental health care delivery and current issues in mental health nursing are discussed. Concurrent with NUR 531. NUR 530 is offered in the fall semester and is open only to MS Option students. Cr 3.

**NUR 531 Mental Health Nursing Clinical for MS Option Students**
This course offers students an opportunity to focus nursing practice on promotion, maintenance, and restoration of mental health. Clinical experience is provided in a mental health/psychiatric nursing setting. The emphasis is on application of concepts of mental health/psychiatric nursing. Concurrent with NUR 530. NUR 531 is offered in the fall semester and is open only to MS Option students. Cr 3.

**NUR 532 Nursing Care of the Older Adult in the Community for MS Option Students**
The focus of this course is the family-centered care of older individuals in the community. Emphasis is on nursing assessment, diagnosis, and therapeutic interventions with individuals and families coping with chronic illnesses. Health promotion/risk reduction strategies are applied. The roles of the nurse in interdisciplinary community settings are explored. Ethical issues unique to community settings are analyzed. Prerequisite: NUR 541 or concurrent. NUR 532 is offered in the fall semester and is open only to MS Option students. Cr 3.

**NUR 538 Community Nursing Partnership Clinical for MS Option Students**
In this course students work within a community partnership to care for individual clients/families and work with residents in developing community-based health programs. This experience provides students with an opportunity to care for culturally diverse individuals, families, and groups. Leadership roles, including ongoing community partnership development, will be emphasized. Prerequisite: CON 356. Cr 2.

**NUR 541 Adult/Older Adult Health Nursing for MS Option Students**
During this course, students will explore evidence-based nursing therapies that support both the adult and the older adult client experiencing health problems. The course considers major health problems in the United States, focusing on nursing knowledge needed for care of adults and older adults experiencing acute and chronic alterations in health in a variety of care settings. This course will encourage students to develop and practice critical thinking skills necessary for delivery of family-centered care in today's complex health care system. The roles of collaboration, advocacy, and teaching are introduced as the student nurse interacts with clients and their support systems across the continuum of care. Prerequisites: NUR 508/509; NUR 512/514; BIO 345; NUR 502 (within one year). NUR 541 is offered in the fall semester and is open only to MS Option students. Cr 3.

**NUR 542 Adult/Older Adult Health Nursing Clinical for MS Option Students**
Students will intervene therapeutically with adults and older 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 541. NUR 542 is offered in the fall semester and is open only to MS Option students. Cr 4.

**NUR 543 Reproductive and Sexual Health Nursing for MS Option Students**
This course focuses on the theory and research in reproductive and sexual health care. While emphasis is placed on holistic nursing care of diverse healthy families from preconception through the childbearing process, high risk conditions, including end of life care for neonates, and the interventions necessary for successful adaptation are also discussed. Male and female reproductive health issues and nursing care across the lifespan will be presented. Prerequisite: NUR 541/542. NUR 543 is offered in the spring semester and is open only to MS Option students. Cr 3.

**NUR 544 Reproductive and Sexual Health Nursing Clinical for MS Option Students**
This course offers students experience in providing holistic nursing care to individuals and families engaged in childbirth experiences. Emphasis is placed on health needs and alterations during the childbearing process, as well as promotion and maintenance of health before, during, and after childbirth. Concurrent with NUR 543. NUR 544 is offered in the spring semester and is open only to MS Option students. Cr 2.

**NUR 545 Child Health Nursing for MS Option Students**
In this course, students examine family-centered nursing care in the health promotion and health care of children. Class discussions focus on theories, research, and literature related to health needs and common health problems of children. Family, heredity, environment, and
socioeconomics are among the factors examined in discussions of nursing in child health. Prerequisites: NUR 541/542 and NUR 530/531. Concurrent with NUR 516. NUR 545 is offered in the spring semester and is open only to MS Option students. Cr 3.
Physics

Physics Overview

Chair of the Department: Paul Nakroshis
Professor: LaSala; Associate Professors: Nakroshis, Ziffer

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 it is intended to prepare graduates for careers in physics and related technical areas or for graduate school. Outstanding students have opportunities to serve as teaching assistants in their junior and senior years.

BA in Physics

Description

Students who major in physics are usually interested in the fundamental laws that describe how nature works. These laws are inherently mathematical in nature, so physics majors also are typically interested in and skilled at mathematics. Studying physics will educate students in the core areas of physics, from Newtonian Mechanics to Electromagnetism, Optics, and Quantum Mechanics. In addition, students will have advanced courses available from Optics, Electronics, Computational Physics, and Astrophysics. In their junior year, all physics majors take Intermediate Physics laboratory, where they work together in groups to perform more advanced laboratory experiments, learn more serious data and error analysis techniques, learn how to present data in a 10 minute talk, and learn how to typeset reports in a format suitable for professional journal publication. Physics majors will graduate with a good skill set for further scientific research or graduate school. Today, with computers playing such a vital role as tools to gather and analyze data, and to perform simulations, the department encourages students to take PHY 261 to satisfy their computing requirement.

All majors are strongly encouraged to get involved with research with a member of the faculty, as there is no better way to learn physics than being actively involved with research. Students who do well in their courses and are engaged in research within the department typically have a very good acceptance rate to graduate school Ph.D. programs in physics. Past graduates have attended graduate programs at State University of New York at Stony Brook, University of Rhode Island, Brandeis University, UCLA, Pennsylvania State University, all with full scholarships.

The physics program is small, but it has a dedicated faculty that teach all lectures and discussion sections, something that students will not find at larger institutions.

Program Requirements

The minimum number of credits in physics and related areas (exclusive of the University’s Core curriculum) required for the physics major: 61. A student majoring in physics must take 37 credit hours of physics courses including requirements and electives as outlined below. In addition, the major requires 16 credits of mathematics courses, 8 credits of chemistry courses, and a demonstration of competency in computer programming.

1. Required courses
   - PHY 114, 116 Introductory Physics Laboratory I and II
   - PHY 121, 123 General Physics I and II (PHY 111 may replace PHY 121 with Departmental permission)
   - PHY 211, 213 Nonclassical Physics I and II
   - PHY 221, 223, 225 Classical Physics I, II, and III
   - PHY 240 Intermediate Laboratory I
   - CHY 373 Chemical Thermodynamics

2. Electives
   In addition to the required courses, students must take a minimum of 6 credits of physics courses numbered 200 or higher, 3 credits from each of groups A and B below.
Group A
PHY 251 Principles of Electronics
PHY 261 Computational Physics
PHY 281 Astrophysics
PHY 375 Optics

Group B
PHY 242 Intermediate Laboratory II
PHY 311 Quantum Mechanics

The physics major also must complete the following courses:
MAT 152 Calculus A
MAT 153 Calculus B
MAT 252 Calculus C
MAT 350 Differential Equations
CHY 113 and 114 Principles of Chemistry I with Lab
CHY 115 and 116 Principles of Chemistry II with Lab

Suggestions for demonstrating competency in computer programming include:
PHY 261 Computational Physics (recommended)
COS 160 and 170 Structured Problem Solving: Java

To graduate as a physics major, a student must maintain a minimum GPA of 2.0 in all courses that satisfy the major requirement, and a minimum overall GPA of 2.0.

BA in Physics - Secondary Teacher Education

Description
This track is for students who want to become certified to teach grades 7-12 physical sciences in Maine. Interested students should see the secondary education physics coordinator upon acceptance at USM, matriculation, upon choosing a physics major, or as early in their academic studies at USM as possible. The curriculum for this track is designed to provide prospective 7-12 teachers a strong academic foundation in physical sciences along with a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences. The degree has four components: USM Core curriculum, a physics major, professional education courses, and electives totaling 120 credit hours.

Program Requirements

USM Core Curriculum (including pre-internship education courses):
- EYE 108 - Culture, Identity, and Education (recommended) (3 cr.)
- EDU 100 - Exploring Teaching (recommended) (3 cr.)
- College Writing - ENG 100 (3 cr.)
- Cultural Interpretation (3 cr.)
- Quantitative Reasoning - MAT 152 Calculus A (4 cr.)
- Creative Expression - EDU 230 Teaching through the Arts (recommended) (3 cr.)
- Socio-Cultural Analysis - HRD 200 Multicultural Human Development (3 cr.)
- Science Exploration - PHY 121/PHY 114 General Physics I & Lab (5 cr.)
- Ethics - EDU 310 Purpose of Schooling in a Democracy (3 cr.)
- Cluster - EDU 305 Foundations of Cultural and Linguistic Diversity, SED 335 Students with Exceptionalities in General Education, and SED 420 Multi-Tiered Systems of Educational Support (9 cr.)
- Diversity and International met with EDU 305 and EDU 310 respectively

Major Requirements:
Students complete the major requirements for a BA in Physics.

Secondary Teacher Education (7-12) Requirements

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Minor in Physics

Description

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. Another option for students with an interest in physics, but majoring in other areas, is the physics minor.

Program Requirements

The minimum number of credits required for the minor: 19

Required courses are:

PHY 111, 112 Elements of Physics I, II or PHY 121, 123 General Physics I and II
PHY 114, 116 Introductory Physics Laboratory I, II
PHY 211 Nonclassical Physics I
PHY 240 Intermediate Laboratory I

At least 3 credits of physics courses numbered 200 or higher

Course Descriptions

AST 100 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 103 Activities and Experiments
A one-credit course meeting weekly for two hours. May be taken concurrently with AST 100 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: Prior or concurrent registration in AST 100. Cr 1.

PHY 101 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 102. 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 102 Introduction to Physics Laboratory
Laboratory experiments and additional material designed to supplement the topics considered in PHY 101. Prerequisite: concurrent registration in PHY 101 or permission of the instructor. Cr 1.

PHY 111 Elements of Physics I
The first of a two-semester non-calculus sequence in introductory physics, intended particularly for life-science majors. Topics to be covered include mechanics, waves, sound, and thermal physics. Lectures, demonstrations, and problem solving will help the student develop an understanding of physical phenomena. Mathematical treatment is at the level of algebra and trigonometry. This course is not recommended for
students planning to major in the physical sciences or engineering. It should be taken concurrently with PHY 114, Introductory Physics Laboratory I. Prerequisite: successful completion of the University's readiness requirement in mathematics. Three hours of lecture and one hour of recitation per week. Cr 4.

PHY 112 Elements of Physics II
A continuation of PHY 111, intended particularly for life-science majors. Topics to be covered include electricity, magnetism, optics, and modern physics. Lectures, demonstrations, and problem solving will help the student develop an understanding of physical phenomena. Mathematical treatment is at the level of algebra and trigonometry. This course is not recommended for students planning to major in the physical sciences or engineering. It should be taken concurrently with PHY 116, Introductory Physics Laboratory II. Prerequisite: PHY 111 or equivalent. Three hours of lecture and one hour of recitation per week. Cr 4.

PHY 114 Introductory Physics Laboratory I
Experiments designed to illustrate the concepts studied in PHY 111 and PHY 121. Corequisite: registration in PHY 111 or 121. Two hours per week. Cr 1.

PHY 116 Introductory Physics Laboratory II
Experiments designed to illustrate the concepts studied in PHY 112 and PHY 123. Corequisite: registration in PHY 112 or PHY 123. Two hours per week. Cr 1.

PHY 121 General Physics I
The first of a two-semester sequence introducing the fundamental concepts of physics, using calculus. Topics to be covered include mechanics, waves, sound, and thermal physics. This course is recommended for students who plan further study in physical sciences, mathematics, or engineering. It should be taken with PHY 114, Introductory Physics Laboratory I. Prerequisite: prior completion of MAT 152 (recommended) or concurrent registration in MAT 152, or equivalent experience. Three hours of lecture and one and one-half hours of recitation per week. Cr 4.

PHY 123 General Physics II
A continuation of PHY 121, introducing the fundamental concepts of physics, using calculus. Topics to be covered include electricity, magnetism, and light. This course is recommended for students who plan further study in physical sciences, mathematics, or engineering. It should be taken concurrently with PHY 116, Introductory Physics Laboratory II. Prerequisites: PHY 121 or equivalent and one semester of calculus. Three hours of lecture and one and one-half hours of recitation per week. Cr 4.

PHY 211 Nonclassical Physics I
The first of a two-semester sequence covering the principal topics which show the departure of physics from its classical roots. Topics will include relativity and atomic structure. Prerequisite: PHY 123 or PHY 112, and MAT 152. Cr 3.

PHY 213 Nonclassical Physics II
A continuation of PHY 211, covering the principal topics which show the departure of physics from its classical roots. Topics will include quantum physics, nuclear physics, and particle physics. Prerequisite: PHY 211. Cr 3.

PHY 221 Classical Physics I
The first of a three-semester sequence offering an intermediate-level treatment of the principal topics of classical physics. The focus for this course is mechanics, including particle motion, oscillations, and noninertial reference systems. Prerequisite: PHY 121 and prior or concurrent registration in MAT 252. Cr 3.

PHY 223 Classical Physics II
A continuation of PHY 221, offering an intermediate-level treatment of the principal topics of classical physics. This course will continue a study in mechanics and start a study in electrostatics. Prerequisite: PHY 123, PHY 221, and MAT 252. Cr 3.

PHY 225 Classical Physics III
A continuation of PHY 223, offering an intermediate-level treatment of the principal topics of classical physics. Topics will continue through magnetism and electrodynamics, leading to Maxwell's equations. Prerequisite: PHY 223. Cr 3.

PHY 240 Intermediate Laboratory I
A selection of experiments designed to illustrate the more important principles of classical and modern physics. Prerequisites: PHY 121, PHY 123, PHY 211, with PHY 261 strongly recommended. Six hours per week. Cr 3.

PHY 242 Intermediate Laboratory II
A selection of experiments illustrating the important principles of classical and modern physics. Prerequisites: PHY 121, PHY 123, PHY 211, with PHY 261 strongly recommended. 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
PHY 261 Computational Physics
This project-oriented course uses the Python programming language and introduces methods of computer simulation and their diverse applications in the physical world. Examples of projects include projectile motion, planetary systems, chaotic systems, and thermal systems. Methods include numerical solutions to differential equations and Monte Carlo techniques. The course emphasizes structured programming, although no background in computer programming is required. Prerequisite: PHY 121 and prior or concurrent registration in MAT 153, or permission of instructor. Cr 3.

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: PHY 221. Cr 3.

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, PHY 221, MAT 252, or permission from instructor. 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 Laboratory Study in Physics
An independent study involving primarily laboratory work. Prerequisite: permission of instructor. Cr 1-3.

PHY 410 Independent Study in Physics
Reading and discussion of advanced subjects or instruction in special topics or research. Prerequisite: permission of instructor. Cr 1-3.

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, and at least one 300-level physics course. Cr 3.
Psychology

Psychology Overview

Chair of the Department: Elizabeth Vella

Professors: Stevenson, Thompson, Thornton; Associate Professor: Vella; Lecturer: Miller

Psychology is the scientific study of the mind and behavior, a broad field that encompasses a variety of sub-disciplines: neurophysiology (brain sciences), cognition (information processing), perceptual processes, learning, social psychology, developmental psychology, health psychology, clinical psychology, as well as key cultural aspects of psychology. Psychology majors also master foundations of research methods and statistical analysis.

The Department of Psychology offers a BA degree that can be accomplished in 4 years with full-time study. A minor in psychology is offered for students in other majors. The Department's focus is on educating students on the fundamentals of scientific theories and research methods within the field, and preparing them for graduate level studies and professions where they can utilize the wide array of skills and knowledge the degree confers: the ability to systematically analyze problems, use critical thinking to evaluate information, and understand human social dynamics and the ways we learn and process information.

BA in Psychology

Description

The Department of Psychology offers a four-year degree as well as courses for students majoring in allied fields, or who would like 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.

Program Requirements

The minimum number of credits (exclusive of the University's Core curriculum) required for the major: 46

Students must achieve a 2.0 grade point average and grades of C- or better in all courses that count toward fulfillment of the major requirements.

PSY 101 and PSY 102 should be successfully completed no later than the end of the sophomore year by students who plan to major in psychology. All majors should also complete PSY 205 and PSY 206 no later than the end of their junior year.

Transfer psychology majors who have taken an introductory psychology course that was completed in one semester have the option of taking PSY 102 or having it waived. If a transfer psychology major waives PSY 102, he or she must take an additional three credits of 300 level psychology electives. Students who are not psychology majors cannot waive PSY 102. MAT 120 can be used in place of PSY 201.

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.

Required Courses:

- PSY 101 and PSY 102 General Psychology I and II, to be taken as a two-semester sequence
- PSY 201 Statistics in Psychology
- PSY 205 Experimental Methodology
- PSY 206 Methodology Lab
- PSY 220 Psychology of the Lifespan
- PSY 230 Social Psychology
- PSY 233 Psychopathology
- PSY 338 Theories of Personality
- PSY 350 Psychology of Learning
In addition, successful completion of the following non-psychology course is required for psychology majors. This course should be completed by the end of the sophomore year:

**BIO 111 Human Anatomy and Physiology I (Prerequisite for PSY 365)**

Other courses offered by the Department numbered 300 or above can be taken as electives to complete the 46-hour minimum. In addition, **BIO 321 Neurobiology and BIO 405 Animal Behavior** can be used to complete this requirement.

Successful completion of **PSY 101** is the prerequisite for the following upper division psychology courses:

- PSY 205 Experimental Methodology
- PSY 206 Methodology Lab
- PSY 230 Social Psychology
- PSY 310 Popular Psychology
- PSY 315 Psychology of Human Sexuality
- PSY 316 Psychology of Gender
- PSY 323 Psychology of Infancy and Childhood
- PSY 324 Psychology of Adolescence
- PSY 325 Psychology of Adulthood and Aging
- PSY 326 Psychology of Social and Linguistic Development
- PSY 338 Theories of Personality
- PSY 340 Behavior Modification
- PSY 360 Cognitive Processes
- PSY 361 Sensation and Perception
- PSY 366 Drugs, Mind, and Behavior

Successful completion of both **PSY 101** and **PSY 102** is the prerequisite for the following upper division psychology courses:

- PSY 220 Psychology of the Lifespan
- PSY 233 Psychopathology
- PSY 350 Psychology of Learning
- PSY 365 Physiological Psychology
- PSY 371 History and Systems of Psychology
- PSY 375 Psychology in the Public Interest

Additional prerequisites for **PSY 205, PSY 206, PSY 323, PSY 324, PSY 325, PSY 326, PSY 365, and PSY 366** are listed in the course descriptions.

**Independent Study**

With the permission of a faculty sponsor, junior and senior psychology majors may elect to participate in **PSY 400 Independent Study**. No more than 12 credits may be earned.

**Directed Study**

With the permission of a faculty sponsor, students may elect to participate in directed study in one or more of the following courses: **PSY 401 Research Apprenticeship, PSY 405 Teaching Apprenticeship**, and **PSY 410 Internship/Field Experience**.

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, computer science, health sciences, and social work.

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.

**Minor in Psychology**
Description

Students majoring in other fields are eligible to earn a minor in Psychology, which will demonstrate that they have taken a rigorous and comprehensive set of courses within the discipline. Such students are looking to broaden their educational experience with a designated program of study. This background can complement professional preparation of students in a diverse number of fields ranging from social and behavioral sciences, social services and human resources, applied health science, and business.

Program Requirements

The minimum number of credits required for the minor in psychology: 21

A grade of C- or better is required in all courses accepted for the minor. A minimum of 15 psychology credits must be taken at USM. Transfer credits cannot be used to meet the psychology elective requirement.

Transfer psychology minors who have taken an introductory psychology course that was completed in one semester have the option of taking PSY 102 or having it waived. If a transfer psychology minor waives PSY 102, an additional three credits of 300 level psychology electives must be taken.

PSY 101 is a prerequisite for all other psychology courses, and PSY 102 is a prerequisite for PSY 220, PSY 233, PSY 350, and several psychology elective courses.

Required Courses:

PSY 101 and PSY 102 General Psychology I and II (6 cr.)

Two courses from List A and two courses from List B (12 cr.)

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<tr>
<th>List A</th>
<th>List B</th>
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<tbody>
<tr>
<td>PSY 220 Psychology of the Lifespan</td>
<td>PSY 350 Psychology of Learning</td>
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<tr>
<td>PSY 338 Theories of Personality</td>
<td>PSY 365 Physiological Psychology</td>
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Plus, one 300-level or above PSY elective (3 cr)

Course Descriptions

PSY 101 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 101. It deals with complex psychological processes such as ability testing, personality, conflict, behavior disorders and therapy, and social and industrial behavior. Prerequisite: PSY 101 with a grade of C- or better. Cr 3.

PSY 201 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. Prerequisite: successful completion of the University's mathematics college readiness requirement. 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: Successful completion of PSY 101 and PSY 201 with grades of C- or better; 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: Successful completion of PSY 101 and 201 with grades of C- or better; 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: Successful completion of PSY 101 and 102 with grades of C- or better. Cr 3.

PSY 230 Social Psychology
This course considers major theories, research, and applications related to the social behavior of the individual. Topics include person perception and social cognition, attitudes and persuasion, aggression and helping behavior, interpersonal attraction, conformity and compliance, and group processes. Prerequisites: Successful completion of PSY 101 with a grade of C- or better. Cr 3.

PSY 233 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. Credit may not be earned for both SBS 303 and PSY 233. Prerequisites: Successful completion of PSY 101 and 102 with grades of C- or better. Cr 3.

PSY 310 Popular Psychology
This course develops students' skills of critical analysis and interpretation through an examination of popular versions of psychology. Students also explore social and cultural influences on popular forms of psychology in different historical periods. Prerequisites: Successful completion of PSY 101 with a grade of C- or better. Cr 3.

PSY 315 Psychology of Human Sexuality
This course provides an introduction to the psychological study of human sexuality. It will engage students in real world issues and provide opportunities to develop the expertise and practice the skills required to make informed choices about sexuality for themselves and their families. Prerequisite: Successful completion of PSY 101 with a grade of C- or better. Cr 3.

PSY 316 Psychology of Gender
This course provides in depth exposure to the psychology of gender and the psychological literature relevant to men, women, and people who use other labels to describe their gender. Prerequisite: Successful completion of PSY 101 with a grade of C- or better. Cr 3.

PSY 323 Psychology of Infancy and Childhood
This is an advanced course where students with a solid background in developmental psychology will explore in detail the psychological issues and events that occur during the course of infancy and childhood. Current research focusing on the interplay of psychological and environmental factors in physical, cognitive, social, and personality development of individuals from conception to puberty will be explored. Prerequisites: Successful completion of PSY 101, and either PSY 220 or HRD/SBS 200 with grades of C- or better. 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: Successful completion of PSY 101, and either PSY 220 or HRD/SBS 200 with grades of C- or better. 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: Successful completion of PSY 101, and either PSY 220 or HRD/SBS 200 with grades of C- or better. Cr 3.

PSY 326 Psychology of Social and Linguistic Development
This seminar explores research addressing infant and child social and linguistic development. The main focus is on brain development, temperament, attachment, linguistic growth, and early social cognition as the basis for children's emergent social and communicative competence. Students are expected to contribute to discussion and debates each week. Prerequisites: Successful completion of PSY 101, and either PSY 220 or HRD/SBS 200 with grades of C- or better. Cr 3.

PSY 338 Theories of Personality
This course is a survey of major classical and contemporary approaches to the study of personality and individual differences. Different theories are examined in detail, their influence on current thinking is considered, and their research contributions are evaluated. Prerequisites: Successful completion of PSY 101 with a grade of C- or better. 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: Successful completion of PSY 101 with a grade of C- or better. 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: Successful completion of PSY 101 and 102 with grades of C- or better. 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: Successful completion of PSY 101 with a grade of C- or better. 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: Successful completion of PSY 101 with a grade of C- or better. 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: Successful completion of PSY 101, 102, and BIO 111 with grades of C- or better. 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: Successful completion of PSY 101 and one semester of biology with grades of C- or better. Cr 3.

PSY 368 Health Psychology
This course is designed to introduce the student to the discipline of health psychology from a bio-psychosocial perspective. An integrative approach will be provided via discussion of the biological and psycho-physiological foundations of health and disease, including the topics of stress and coping, prevention, diet, substance abuse, and chronic illness. Prerequisites: Successful completion of PSY 101 with grade of C- or better. 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: Successful completion of PSY 101 and 102 with grades of C- or better. Cr 3.

PSY 375 Psychology in the Public Interest
The major objective of public interest advocacy is to solve fundamental problems of human justice concerning the equitable and fair treatment of all segments of society. This course is designed for motivated students who are eager to apply their knowledge of psychological science to confront some of society's most difficult social problems. This course will help students develop the skills and expertise necessary to advocate successfully on public interest issues. Students will be expected to produce a variety of writing samples and written documents and an advocacy video that illuminate their developing understanding of the issue they choose as well as the related experiences and skills necessary to facilitate change. Prerequisites: 1) Successful completion of PSY 101 and 102 with grades of C- or better, and 2) advanced standing. Recommended: Successful completion of the Ethical Inquiry, Social Responsibility, and Citizenship general education requirement. Cr 3.

PSY 400 Independent Study
This course provides junior and senior psychology majors the opportunity to pursue guided reading/research on a topic of their choosing. Each independent study project will be conducted with advice and guidance from the sponsoring faculty member. Prerequisites: junior or senior standing, successful completion (with grades of C- or better) of PSY 205 and PSY 206, completion of independent study application describing the proposed reading/research project, permission of faculty sponsor. Cr 1-3.

PSY 401 Research Apprenticeship
This course provides students the opportunity to develop further insight into the research process through direct involvement with ongoing faculty research. Prerequisites: completion of application, permission of faculty sponsor. Cr 1-3.

PSY 405 Teaching Apprenticeship
This course provides students the opportunity to assist teaching faculty and to develop deeper understanding of course materials and college teaching. Teaching apprentices are selected by faculty. Prerequisites: completion of application, permission of faculty sponsor. Cr 1-3.

PSY 410 Internship/Field Experience
This course provides junior and senior psychology majors the opportunity to apply their psychology training in organizations and community service projects. Currently students may participate in the USM-Hall School Mentor project. Prerequisites: completion of application describing the tasks or activities they will be performing, permission of faculty sponsor and department chair. Cr 1-12.
Recreation and Leisure Studies Overview

Chair of the Department: Holly Bean
Lecturers: Bean, Jain

The Department of Recreation and Leisure Studies offers a baccalaureate degree in recreation and leisure studies. In addition, there are minors in recreation leadership, in nature tourism, and in disability studies, and a variety of health fitness instructional activity courses.

The minor in Recreation Leadership consists of 20 credits. The minor is designed to provide students who are not majoring in recreation and leisure studies with the basic knowledge and skills needed to lead recreation programs in settings such as YMCAs, community recreation centers, and camps.

The minor in Nature Tourism consists of 19 credits. This minor combines coursework in environmental science and outdoor recreation to provide students with an introductory knowledge of ecotourism, outdoor recreation leadership, and nature interpretation.

The minor in Disabilities Studies consists of 21 credits. The minor is offered with collaboration from Special Education, Social and Behavioral Sciences, Linguistics, and Psychology. This minor will prepare a student to work with special populations in a myriad of settings including recreation, community, education, and therapeutic.

In addition to the baccalaureate degree and minors, a wide variety of recreation and leisure studies courses, as well as health fitness activity courses, is available. Students are encouraged to pursue recreation, leisure, and instructional health fitness course offerings as appropriate to their academic program or their personal development needs.

Additional Information

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. A student who admits to or is found guilty of a violation of academic integrity (see USM Student Academic Integrity Policy) or the American Therapeutic Recreation Society's Code of Ethics, can be suspended or dismissed from the program or the University. (The ethics statement is posted in the program's reception area, is discussed in REC 494, and is available through the Program Coordinator.)

A grade of D or F in a REC core course will stop progression within the respective degree course sequence. Students who receive a grade of D or F in any REC core course must repeat the course and earn a grade of C- or better. Students who receive a grade of D or F in REC 495 will be allowed to repeat the course once, provided 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 an internship must enroll in the appropriate pre-internship course in the semester immediately preceding the internship. Students who receive a D or F in a program theory or clinical course must obtain a grade of C- or better when the course is repeated. Students who fail to enroll in therapeutic recreation courses for a one-year period without permission of their academic advisor can be removed from their declared major.

Internship Policies

Policies regarding internship are specified in the program's Student Internship Manual. Internship eligibility requirements are as follows:

To be eligible for REC 495 Internship placement, baccalaureate degree students must be recreation and leisure studies majors, and they must have completed at least 24 credits from the Core curriculum and 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 with grades of C- or better: REC 110, REC 121, REC 224, REC 241, REC 311, REC 332, REC 353, REC 382, REC 383, REC 494, and one 3-credit recreation 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 and beyond. Students must apply to agencies and be accepted by an agency for internship. Internships are earned, not assigned. The program cannot guarantee that students will be able to obtain internships in the southern Maine area.

Transfer into the B.S. Degree in Recreation and Leisure Studies from other USM Academic Programs
Students enrolled in other USM programs of study must meet with the Department Chair to discuss transfer requirements and reasons for transfer. Such students should have completed REC 110, ENG 100, PSY 101, and BIO 111 or equivalent with grades of C- or better or have completed at least one semester at USM and be in good academic standing. Acceptance into the program is also dependent on reasons for transfer and space availability.

**BS in Recreation and Leisure Studies - Therapeutic Recreation Concentration**

**Description**

The purpose of therapeutic recreation is to promote development of functional independence and to facilitate development, maintenance, and expression of an appropriate leisure lifestyle for persons with mental, physical, emotional, or social limitations. Accordingly, this purpose is accomplished through provision of educational and participatory services in both treatment and non-treatment settings. These services assist clientele in eliminating barriers to leisure, developing leisure skills and attitudes that meet their needs, and optimizing their leisure involvement. Therapeutic recreation professionals use leisure and recreation to enhance each client's health status and leisure lifestyle, both of which are imperative to the development of human potential. Minimum number of credits needed for the degree: 121.

Upon completion of the degree requirements, the student may seek employment as a recreation therapist, recreation staff in a variety of municipal or nonprofit environments, activity coordinator, 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.

**Program Requirements**

In addition to the University Core Curriculum requirements, the four-year program in recreation and leisure studies consists of the following courses leading to the B.S. degree. The curriculum is subject to change as a result of faculty evaluation.

<table>
<thead>
<tr>
<th>Required Recreation Core Courses (51 cr)</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>REC 110 Foundations of Recreation and Leisure Studies</td>
<td>3</td>
</tr>
<tr>
<td>REC 121 Introduction to Therapeutic Recreation Services</td>
<td>3</td>
</tr>
<tr>
<td>REC 216 Emergency Response</td>
<td>3</td>
</tr>
<tr>
<td>REC 219 Lifetime Physical Fitness and Wellness</td>
<td>3</td>
</tr>
<tr>
<td>REC 224 Inclusive and Special Recreation</td>
<td>3</td>
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<tr>
<td>REC 241 Recreation Leadership</td>
<td>3</td>
</tr>
<tr>
<td>REC 311 Psychosocial Interventions for Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>REC 332 Methods in Therapeutic Recreation Program Design</td>
<td>3</td>
</tr>
<tr>
<td>REC 353 Implications of Disabling Conditions for Therapeutic Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 382 Assessment and Documentation in Therapeutic Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 383 Facilitation Techniques in Therapeutic Recreation</td>
<td>3</td>
</tr>
<tr>
<td>REC 494 Professional Foundations of Therapeutic Recreation Practice</td>
<td>3</td>
</tr>
<tr>
<td>REC 495 Internship</td>
<td>12</td>
</tr>
<tr>
<td>REC 498 Management and Professional Development in Therapeutic Recreation</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (6 cr)**

| HIH 288 Reiki | 3 |
| REC 223 Introduction to Nature Tourism | 3 |
| REC 231 Expressive Arts Programming | 3 |
| REC 285 Perspectives on Animal Assisted Therapy | 3 |
| REC 314 Wellness Education and Counseling | 3 |
| RHF XXX Two 1.5-credit health fitness courses | 3 |

**Required foundation courses (24 cr)**

| BIO 111 Human Anatomy and Physiology I | 3 |
| BIO 112 Practical Human Anatomy and Physiology I | 1.5 |
| BIO 113 Human Anatomy and Physiology II | 3 |
| BIO 114 Practical Human Anatomy and Physiology II | 1.5 |
Minor in Disabilities Studies

Description

The minor in Disabilities Studies consists of 21 credits. The minor is offered with collaboration from Special Education, Social and Behavioral Sciences, Linguistics, and Psychology. This minor is open to any USM major and will prepare a student to work with special populations in a myriad of settings including recreation, community, education, and therapeutic. The minor in Disabilities Studies allows students to create their course of study from a wide variety of options. Students must earn a grade of C- or better in all courses required for the minor.

Program Requirements

Required courses (15 cr):

- ADS 300 Ethics and Youth with Exceptionalities
- ADS 400 Seminar in Disabilities Studies
- SBS 315 Social Psychology of Disability
- SBS 343 Substance Abuse or SWO 388 Alcohol and Other Drug Abuse Issues
- REC 224 Inclusive and Special Recreation
  or
- REC 353 Implications of Disabling Conditions for Therapeutic Recreation
- SBS 303 Abnormal Psychology
  or
- PSY 233 Psychopathology

Choose two electives from the following (6 cr):

- ADS 400 Seminar in Disabilities Studies (may be taken twice)
- ASL 101, 102 Beginning American Sign Language I and II
- LIN 105 Contrastive Analysis: ASL and English
- LIN 203 Introduction to the Deaf World
- PSY 366 Drugs, Mind, and Behavior
- SBS 335 Legal Issues in Health and Human Services
- SBS 343 Substance Abuse
- SBS/ECE/LAE 393 Exceptionality in Early Childhood Education
- SED 335 Students with Exceptionalities in General Education
- SED 420 Multi-tiered Systems of Support
- SWO 388 Alcohol and Other Drug Abuse Issues

Some courses may have prerequisites.

With permission, 9 transfer credits will be allowed. If transfer credits are allowed, 12 credits are required to be taken at USM.

Minor in Nature Tourism
Description

The minor in nature tourism is jointly offered by the Department of Recreation and Leisure Studies and the Department of Environmental Science and Policy. The minor combines coursework to provide students with an introductory knowledge of ecotourism, outdoor recreation leadership, and nature interpretation. Safe and responsible use of outdoor environments is a prime focus of the minor. Enrollment in the nature tourism minor can increase student understanding and enjoyment of nature while enhancing future employment opportunities in ecotourism and adventure recreation businesses, wilderness equipment outfitters, or organizations that focus on environmental education.

Program Requirements

The minimum number of credits required for the minor in nature tourism: 19

Students seeking the minor in nature tourism must complete the following courses:

<table>
<thead>
<tr>
<th>Required Courses (16 credits)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP 101/102 Fundamentals of Environmental Science with Laboratory</td>
<td>4</td>
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<tr>
<td>ESP 203 Environmental Communication</td>
<td>3</td>
</tr>
<tr>
<td>REC 218 Emergency Medical Response with Focus on Wilderness Application*</td>
<td>3</td>
</tr>
<tr>
<td>REC 223 Introduction to Nature-based Tourism</td>
<td>3</td>
</tr>
<tr>
<td>REC 233 Outdoor Recreation</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Courses (3 credits)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP 150 Environmental Science Field Immersion Session</td>
<td>3</td>
</tr>
<tr>
<td>REC 367 Adventure Based Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Not all classes are offered every semester. Some courses may have prerequisites.

*Recreation and leisure studies majors can only substitute REC 218 Emergency Medical Response with Focus on Wilderness Application for REC 216 Emergency Response if they are enrolled in the nature tourism minor and have completed either ESP 223 or ESP 101/102.

Minor in Recreation Leadership

Description

The minor in recreation leadership is designed to provide students with the basic knowledge and skills necessary to lead recreation programs in setting such as YMCAs, Boys and Girls Clubs, community recreation centers, and camps. The minor is especially appropriate for those students majoring in fields such as education, psychology, nursing, criminology, business, and social work who intend to use recreation activities as part of their practices.

Program Requirements

The minimum number of credits required for the minor: 18

Students seeking the minor in recreation leadership must meet the following requirements.

Required courses (6 cr):
- REC 110 Foundations of Recreation and Leisure Studies
- REC 241 Recreation Leadership

Complete three of the following courses (9 cr):
- REC 233 Outdoor Recreation
- REC 311 Psychosocial Interventions for Older Adults
- REC 314 Wellness Education and Counseling
Complete two 1.5-credit RHF courses from the following:
- RHF 106 Ballroom Dance
- RHF 109 Beginning Weight Training
- RHF 118 Yoga
- RHF 121 Self Defense
- RHF 122 Aerobic Kickboxing
- RHF 123 Introduction to Sea Kayaking
- RHF 124 T’ai Chi Qigong
- RHF 126 Stability and Physio-Ball Exercise
- RHF 127 Pilates

Not all courses are offered every semester. Some courses have prerequisites. Other RHF courses can be substituted with permission.

Course Descriptions

Course Fees

A course fee is assessed in REC 216 Emergency Response, REC 218 Emergency Medical Response with Focus on Wilderness Application, REC 367 Adventure Based Counseling, REC 382 Assessment and Documentation in Therapeutic Recreation, REC 494 Professional Foundations of Therapeutic Recreation Practice, and select RHF courses.

REC 110 Foundations of Recreation and Leisure Studies
This course addresses the concepts of leisure, play, and recreation, emphasizing the role that leisure should play in modern society. Lectures and discussions on societal attitudes toward work and leisure stress the need to keep these activities in proper perspective. Students will concentrate on psychological aspects of optimal experience and quality of life. Community leisure services will be addressed. Assignments will encourage students to explore leisure lifestyle attitudes. Recreation and Leisure Studies majors will begin their academic career portfolios. Cr 3. Offered online Fall, Spring, and Summer.

REC 121 Introduction to Therapeutic Recreation Services
An overview of therapeutic recreation, including historical and philosophical foundations, service models, professional functions, and service settings. The psychology of disability will be included as well as an introduction to disabling conditions. Prerequisite: therapeutic recreation major or instructor permission. Cr 3. Offered Spring semester.

REC 216 Emergency Response
This course will cover 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 course requirements will lead to Emergency Response certification, including adult, child, and infant CPR, from the American Red Cross. Equivalent to CON 216 and SPM 216. Cr 3. Offered Fall, Spring, and Summer semesters.

REC 218 Emergency Medical Response with Focus on Wilderness Application
This course prepares students to stabilize and care for victims of medical emergencies in remote and wilderness area settings when advanced medical professionals are not readily available. The course is a requirement for students enrolled in the nature tourism minor. Students who successfully complete the course will qualify for certification by the American Red Cross in Wilderness Emergency Response and CPR for the Professional Rescuer. Cr 3. Offered Fall, Spring, and Summer semesters.

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 readings, discussions, self-assessment activities, and development of personalized nutrition and physical activity plans. Equivalent to CON 219 and SPM 219. Cr 3. Offered Fall and Spring semesters.

REC 223 Introduction to Nature Tourism
This course covers the basics of nature tourism, a broad category that covers ecotourism, adventure tourism, and a variety of activities and programs involving the outdoors. An emphasis is placed on Maine and northern New England nature tourism. REC 223 is a required course for the nature tourism minor offered jointly between the Department of Recreation and Leisure Studies and the Department of Environmental Science. Cr 3. Offered Fall semester.

REC 224 Inclusive and Special Recreation
This course will explore how to include persons with disabilities into non-treatment focused recreation programs and services. Disability awareness and history plus physical and program access will be explored with a focus on requirements specified by federal ADA legislation. Recreation and sport organizations for persons with disabilities as well as assistive devices that enable access will also be examined. Prerequisite: REC 110 or instructor permission. Cr 3. Offered Fall semester.

**REC 226 Lifetime Leisure Activities**
Through participation in a variety of recreational pursuits, students will explore the rules, techniques, strategies, and adaptations for successful participation by those individuals with disabilities. Youth sport development, leadership techniques for teaching physical recreation activities, and basic motor learning concepts will also be addressed. Cr 3. Offered Fall and Spring semesters.

**REC 229 Adapted Aquatics Laboratory**
This course introduces students to the therapeutic medium of water as it is used to promote the physical, psychological, and social well-being for persons with disabilities. The lab will require students to participate in a community-based adapted aquatics program under the supervision of a therapeutic recreation, adapted aquatics specialist. Students will be given a general introduction to the disabilities presented by program participants and will be required to learn and apply adapted aquatics assessments, skills, and program management knowledge. Each student will negotiate, with the instructor, the aquatics program that will be attended. The lab will require approximately two hours on site per week. Prerequisites: Instructor permission, passage of basic swimming skills and lifting tests, and Water Safety Instructor Certificate (American Red Cross). Cr 1.5. Offered Fall semester.

**REC 231 Expressive Arts Programming**
Students will learn about the therapeutic benefits of art and craft activities and how to plan, adapt, organize, and lead crafts programs and activities. The course will require students to participate in a variety of craft activities such as leatherwork, weaving, quilting, sand painting, and other appropriate projects. Prerequisite: instructor permission. Cr 3. Offered Spring semester.

**REC 233 Outdoor Recreation**
This course focuses on safe, sustainable, nature-based recreation with an emphasis on "leave no trace" principles. The role of park systems and wilderness environments relative to recreation in modern society will be examined. A variety of outdoor recreation activities will be introduced. Several class trips will be required; thus students must be prepared to pay charges (a total of no more than $20) for access to outdoor activity environments and equipment. Cr 3. Offered Fall semester.

**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 that are aimed at helping them to develop and analyze leadership skills in a variety of recreation program areas such as special events, expressive arts, passive recreation, outdoor recreation, and sports. Cr 3. Offered Fall semester.

**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 and rehabilitation of persons with a variety of physical and psychological disabilities. Lectures, discussions, guest speakers, and a variety of audiovisual materials will be utilized to meet course objectives. Cr 3. Offered Fall and Spring semesters.

**REC 311 Psychosocial Interventions for Older Adults**
This course will explore the normal aging process in addition to a variety of chronic conditions experienced by older adults. The focus of the course will be on non-pharmacological intervention strategies for older adults residing in community and clinical agencies. Intervention examples include stress management, animal-assisted therapy, storytelling, autobiographical writing, bibliotherapy, adventure-based activities, air mat therapy, and "simple pleasures" activities. Other topics of study will include attitudes, stereotypes, and social issues that affect older adults today. Off-campus service learning experiences will be expected along with in-class discussions. Cr 3. Offered Spring semester.

**REC 314 Wellness Education and Counseling**
This course is designed to facilitate an understanding of how to plan, implement, and evaluate wellness education programs. Teaching and learning styles will be addressed. Counseling skills will be practiced. Teaching techniques and tips will be highlighted. The course follows a learning-by-doing and reflection-in-action approach to education. Students will participate in experiential group and individual processes and be expected to apply personal insight when working with others. Cr 3. Offered Fall semester.

**REC 332 Methods in Therapeutic Recreation Program Design**
Using a systems approach to therapeutic recreation program development, students will learn how to develop group oriented treatment and educational programs. 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 program development projects. Prerequisites: REC 121. Cr 3. Offered Fall and Spring semesters.

**REC 353 Implications of Disabling Conditions for Therapeutic Recreation**
This course provides an overview of physical and developmental disabilities with emphasis on etiology, clinical descriptors, rehabilitation, and educational concerns. Examination of the impact of disability on leisure and therapeutic recreation programming will be addressed, as will
barriers that affect communication and interactions between persons with and without disabilities. Cr 3. Offered Fall semester.

**REC 367 Adventure Based Counseling**
The course focuses on how to facilitate and then process outdoor/adventure/recreation activities as a means to improve self-concepts, develop group cohesion and uncover feelings, among others. Course objectives will be met through experiential as well as theoretical methods, thus allowing the student to acquire the skills necessary to lead groups through similar activities. Class format will be lectures, discussions, group activities, and presentations by class members. The course will address how to plan, implement, lead, debrief, and evaluate adventure experiences. Cr 3. Offered Spring semester.

**REC 382 Assessment and Documentation in Therapeutic Recreation**
This course examines therapeutic recreation services in a variety of settings. Emphasis will be on assessment and documentation within healthcare settings. Students will learn assessment, individual treatment planning, intervention strategies, and the development of treatment protocols. Students will be required to work in groups and participate in class leadership. A 24-hour practicum experience in a therapeutic recreation program is required. Prerequisites: Recreation and Leisure Studies major or Recreation Leadership minor, REC 332, HRD/SBS 200. Cr 3. Offered Fall semester.

**REC 383 Facilitation Techniques in Therapeutic Recreation**
Exploration of the processes and techniques used in Therapeutic Recreation practice. A focus on evidence-based practice and practice-based evidence will facilitate the learning of various recreation and leisure activities, modalities, and interventions. Therapeutic Recreation processes, approaches, leadership roles and tasks, communication skills, and therapeutic relationships will be addressed. A 24-hour clinical practicum is required. Prerequisite: REC 332. Cr 3. Offered Spring semester.

**REC 386 Recreation Facility Design and Maintenance**
This course presents a comprehensive introduction to the field of design management and maintenance for future recreation and leisure service professionals. It offers a detailed look at the foundations of the profession, including defining characteristics of recreation facility management and descriptions of the duties of a recreation facility manager and areas within the facilities. The course also covers common indoor and outdoor elements of facilities, including sites, spaces, lighting, surfaces, utilities, landscaping, walkways, and parking areas. Cr 3. Offered Fall semester.

**REC 390 Topics in Recreation and Leisure Studies**
This course includes topic areas in recreation and leisure studies not already covered by regular course offerings. May be repeated for credit when topics vary. Cr 3. Offered variable semesters.

**REC 398 Independent Study**
This course is open only to students majoring or minoring within the program who have identified a topic, relevant to their course of study, that they want to study in depth and for which there is no existing appropriate course. Students must obtain a faculty supervisor and negotiate a written independent study contract with this person. Independent study forms can be obtained from the program. Cr 1-3. Offered variable semesters.

**REC 494 Professional Foundations of Therapeutic Recreation Practice**
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: REC core courses and instructor's permission. Cr 3. Offered Spring semester.

**REC 495 Internship**
Students are required to work a minimum of 560 hours in an agency that provides therapeutic recreation services. During this period the students will apply the knowledge, methods, and leadership techniques that they have learned in academic courses. Students will be directly supervised by qualified agency personnel and indirectly supervised by faculty. This course is usually taken the senior year. Prerequisites: REC 494 and instructor's permission. Health insurance is required of students enrolled in this course. Cr 12.

**REC 498 Management and Professional Development in Therapeutic Recreation**
An overview of management roles in therapeutic recreation settings with major focus 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.

**RHF 106 Ballroom Dance**
This class is designed to teach the basic steps in many popular ballroom dances. Students will begin with slow, smooth dances and progress into Rhythm dances. In addition to dance steps, students will cover a variety of dance related topics, including dance floor etiquette, lead and follow technique, and exercises designed to help students dance in a partnership. Because skill or fitness development are objectives in all RHF courses, students must attend and participate in class activities to pass the course. The program reserves the right to request written medical clearance for participation in courses that require high intensity exercise. Cr 1.5. Offered Fall and Spring semesters.
RHF 109 Beginning Weight Training
The course is a study of the basic principles of weight training and the physiological responses and adaptations to weight training exercises. Specifically, the subject matter will focus on the safe and proper execution of different weight training exercises. In addition, students will study basic aspects of weight training programs, i.e., sets, repetitions, intensity, frequency, duration, progression, specificity, and overload. This course will assist students in developing awareness and appreciation of the role of exercise for a healthy lifestyle and injury prevention. Because skill or fitness development are objectives in all RHF courses, students must attend and participate in class activities to pass the course. The program reserves the right to request written medical clearance for participation in courses that require high intensity exercise. Cr 1.5. Offered Fall and Spring semesters.

RHF 118 Yoga
In this course, students will explore various postures and styles of yoga, breathing techniques, and meditation. Students also will discuss ancient yogic philosophy and examine how it applies to their individual lives and yoga practice. Because skill or fitness development are objectives in all RHF courses, students must attend and participate in class activities to pass the course. The program reserves the right to request written medical clearance for participation in courses that require high intensity exercise. Cr 1.5. Offered Fall and Spring semesters.

RHF 121 Self Defense
Emphasizing the importance of personal mastery and good decision making over technique, this course focuses on risk scenarios and developing strategies for those scenarios through discussion and analysis, emphasizing the importance of customizing strategies to the individual. The course examines shortcomings of traditional “techniques based” approaches and instead focuses on specific risks we face such as road rage, the role of alcohol and drugs in social settings and society, as well as simple high impact techniques easily adaptable by most students for those rare instances when they must take a physical stand. Each class incorporates a “Self Defense Current Events” review to look at real life events in Portland, Maine and around the country to serve as examples to discuss and analyze. Because skill or fitness development are objectives in all RHF courses, students must attend and participate in class activities to pass the course. The program reserves the right to request written medical clearance for participation in courses that require high intensity exercise. Cr 1.5. Offered Fall and Spring semesters.

RHF 122 Aerobic Kickboxing
Blending boxing, kicking techniques, aerobics, pilates, yoga, and a dash of middle school gym class, this course integrates these elements into a fast paced cross training program. Fundamentals are first introduced via a “techniques” format set to music. Later in the semester, students transition to impact striking, using target pads to develop power, speed, and accuracy. The course embraces several mantras, including “know the thing, do the thing” and importance of focusing on each activity and technique to maximize the benefit of the work out. Proper warm up, stretching and cooling down techniques are also incorporated. Because skill and fitness development is an objective of the course, students must attend and participate in class activities in order to pass. The Department reserves the right to request written medical clearance for participation. Cr 1.5. Offered Fall and Spring semesters.

RHF 123 Introduction to Sea Kayaking
This course is designed to provide education and skill development in sea kayaking. Because skill and fitness development is an objective of the course, students must attend and participate in class activities in order to pass. The Department reserves the right to request written medical clearance for participation. Students are required to pay vendor charges for equipment and parking. Cr 1.5. Offered Fall semester.

RHF 124 T'ai Chi Qigong
In this course, students will become acquainted with essential biomechanics, applied mental intention, and internal energy development methods required to build gong and establish foundations for Taiji forms; learn basic history of Taijiquan and about yin/yang theory; learn efficient and integrated use of body and the roles of breath, heart/mind, and intentionality on physicality and personal harmony; explore relationships among mental, emotional, physical, and spiritual experiences; explore differences among physical, mental, and mind/body learning; and learn to appreciate relationships between healing arts and martial arts aspects of Taiji. Because skill or fitness development are objectives in all RHF courses, students must attend and participate in class activities to pass the course. The program reserves the right to request written medical clearance for participation in courses that require high intensity exercise. Cr 1.5. Offered Fall and Spring semesters.

RHF 126 Stability and Physio-Ball Exercise
This class will use the physio ball to design a total fitness program to build a long, lean, and agile body. Students will concentrate on strengthening and lengthening muscles of the torso. The program will include elements of core strength, balance, flexibility, endurance, and cardiovascular fitness. Because skill or fitness development are objectives in all RHF courses, students must attend and participate in class activities to pass the course. The program reserves the right to request written medical clearance for participation in courses that require high intensity exercise. Cr 1.5. Offered Fall and Spring semesters.

RHF 127 Pilates
In this course, students will participate in an exercise program focused on building strength, tone, and increased flexibility. They will develop awareness of the mind-body connection and its relationship to health. Because skill or fitness development are objectives in all RHF courses, students must attend and participate in class activities to pass the course. The program reserves the right to request written medical clearance for participation in courses that require high intensity exercise. Cr 1.5. Offered Fall and Spring semesters.
**BA in Self-Designed Major - Elementary Teacher Education**

**Description**

The undergraduate Self-Designed Contract Major is designed to prepare those seeking elementary and middle school (K–8) certification in Maine with a strong foundation in mathematics and science and essential knowledge in integrating the disciplines through modeling, engineering, research, and technology. The overarching goal of the program is to prepare pre-service teachers with a deep understanding of the Common Core Mathematics and Next Generation Science Standards. Coursework models best teaching practices, emphasizes using reading and writing across the STEM curriculum, and focuses on hands-on, problem-based learning. Interested students should see the STEM education coordinator upon acceptance at USM, matriculation, upon choosing this major, or as early in their time at USM as possible. The Concentration in Elementary Education offers a continuous focus on both the theory and practice of teaching through a sequence of pre-internship education courses and field experiences.

Students completing the degree will have satisfied the USM Core Curriculum, the STEM Education Major, and Elementary Education Concentration, as well as liberal arts courses required for initial K-8 teacher certification. Graduates who complete the degree are eligible for recommendation for K-8 teacher certification in Maine. A minimum of 66.5 credits are required for the STEM Education major (note: additional credits are required for the Elementary Education Concentration and liberal arts courses required for initial K-8 teacher certification in Maine) and USM requires 120 credits total for graduation.

**Program Requirements**

**USM Core Courses** (including pre-internship education courses that are required for the Concentration in Elementary Education; 24 additional credits above those required by the major)

- Entry Year Experience – EYE 112 Built Environment: Energy (This course is recommended for this track of the Elementary Education Concentration; 3 cr.)
- College Writing (ENG 100 College Writing is recommended; 3 cr.)
- Quantitative Reasoning – MAT 120 Introduction to Statistics (This course is a requirement for the major; 4 cr.)
- Socio-Cultural Analysis – HRD 200: Multicultural Human Development (This course is a requirement for the Elementary Education Concentration; 3 cr.)
- Science Exploration – This requirement is fulfilled by several courses that are required for the major.
- Cultural Interpretation – (ENG 140 or ENG 145 are recommended; 3 cr.)
- Creative Expression – EDU 230 Teaching through the Arts (This course is recommended for this track of the Elementary Education Concentration; 3 cr.)
- Ethical Inquiry, Social Responsibility, and Citizenship: EDU 310 What is the Purpose of Education in a Democracy? (Requirement for the Elementary Education Concentration and the International core requirement; 3 cr.)
- Diversity: EDU 305 Foundations of Cultural and Linguistic Diversity (This course also serves as the first course in the cluster; 3 cr.)
- Education in a Democratic Society Cluster – Additional required courses are SED 335 - Students with Exceptionalities in General Education and SED 420 Multi-Tiered Systems of Educational Support

**Major Coursework** (Total credits required for the major is 66.5-69)

Mathematics Content (24 credits)

- MAT 108 College Algebra (4 cr.)
- MAT 120 Introduction to Statistics (4 cr.)
- MAT 131 Number Systems for Elementary Teachers (3 cr.)
- MAT 231 Algebra for Elementary Teachers (3 cr.)
- MAT 232 Geometry for Elementary Teachers (3 cr.)
- MAT 152 Calculus A (4 cr.)
- MAT 242 Applied Problem Solving (3 cr.)

Science Content (27.5-30 credits)

- ESP 101 and ESP 102 Fundamentals of Environmental Science and Lab (4 cr.)
- STH 112 Physical and Earth/Space Science for K-8 Teachers (4 cr.)
- CHY 113 and CHY 114 Principles of Chemistry I and Lab (4.5 cr.)
- PHY 111 and PHY 114 Elements of Physics I and Lab (5 cr.)
- BIO 105 and 106 Biological Principles I: Cellular Biology and Lab (4.5 cr.) or ESP 125 and ESP 126 Introduction to Environmental Ecology and Lab (4 cr.)
- Two of the following upper-level science courses: ESP 207 Atmosphere: Science, Climate, and Change; ESP 260 Soil and Water
Elementary Teacher Education (K-8) Requirements

All requirements for the Elementary Teacher Education program, including academic requirements, education courses, content requirements, the professional internship year, and declaration and candidacy can be found here.

Electives:

Students must complete elective credit to complete the 120 credit hour degree. For those seeking elementary certification, the Core Curriculum allows students to meet the minimum requirements for distributed credits across the liberal arts (i.e., all students must have at least 6 credits in English, math, science, and social studies). The following courses are also recommended:

Social Studies (6 cr.) HTY 101 or HTY 102 and HTY 122 or HTY 123
Technology Overview

Chair of the Department: Carl Blue

Professors: Anderson; Associate Professors: Blue, Lynn; Lecturer: Monnin

Programs in the Department of Technology develop management and technical professionals for employment in a wide variety of technical environments. The curriculum consists of general education, a technical specialty, and management courses that produce graduates with the specialty/general education combination widely sought after by today's organizations. In these programs, technical and related concepts are presented in an applied approach encompassing classroom interaction, laboratory activities, field experiences, engagement with local business and industry, and opportunities for internships / cooperative education.

The Department offers four degree programs leading to a bachelor of science (B.S.) in Technology Management with concentrations in industrial management, precision manufacturing, information and communications technology, and electro-mechanical systems, a bachelor of science (B.S) in Information Technology, and a bachelor of science (B.S.) in Cyber Security.

Admission Requirements

Students must meet all University of Southern Maine admission requirements.

The Department of Technology has approved transfer pathways from several of Maine's community colleges and regionally accredited community or technical colleges. The purpose of these pathways is to allow individuals with specific associate's degrees to complete a Bachelor of Science degree with a focus in areas such as: industrial management, electro-mechanical systems, precision manufacturing, information and communications technology, and information technology.

Students seeking admission to the B.S. in Applied Technical Leadership will be screened for either an associate degree or a combination of occupational experience and training equivalent to an associate degree. Students without an associate degree are required to prepare a portfolio documenting their competence.

Internship

The Department of Technology, recognizing the value of integrating theory and practice through application in actual work environments, encourages internships for qualified students. An internship provides a wide range of opportunities for applying knowledge and skills obtained in a classroom or laboratory to actual work situations. Permission of the advisor and the internship coordinator is needed to register for an internship.

Laboratory fees

Laboratory fees to cover the cost of materials, supplies, and computer resources are added to ITT courses and selected ITC and ITS courses.

BS in Applied Technical Leadership

Description

This degree program is designed for non-traditional or transfer students to provide career advancement opportunities for experienced personnel employed in a variety of technically oriented career fields such as fire science, law enforcement, medical technology, business operations, service industries, and others.

Students seeking admission to the Applied Technical Leadership degree program will be screened for either an associate degree or a combination of non-credit training and experience equivalent to an associate degree. Students without an associate degree are required to prepare a portfolio documenting their competence.
Program Requirements

The minimum number of credits required for the degree: 121

University Core
College Writing
Quantitative Reasoning - MAT 140 Precalculus (or above)
Creative Expression
Cultural Interpretation
Socio-cultural Analysis - Economics (ECO)
Science Exploration with Lab
Ethical Inquiry, Social Responsibility, and Citizenship
Diversity
International
Thematic cluster - Professional Practices Recommended
Cluster course 1
Cluster course 2
Cluster course 3
Capstone - ITT 460

Departmental Requirements
ITP 210 Technical Writing
BUS 195 Spreadsheet and Problem Solving
or MAT 148 Applied Calculus
Statistics
Computer
Natural Science

General Elective - 6 Credits

Professional - Required Courses
ITP 230 Project Management
ITP 250 Management Information Systems
ITP 280 Managing Organizations in a Technological Environment
ITP 310 Facility Planning
ITP 340 Quality Management
ITP 350 Leadership, Teambuilding and Facilitation
ITP 381 Human Resource Development
ITP 410 Technical Operations and Strategies
ITP 490 Cost Analysis and Control
ITS 320 Workplace Safety and Health Management Systems
ACC 110 Financial Accounting Information for Decision Making

Technical/Occupational Specialization - 36 Credits
Occupational Assessment/Elective Courses
ITT 400 Occupational Competency

(Portfolio Assessment)
ITT 440 Related Occupational Experiences/Internships

BS in Cyber Security

Description

As the Internet becomes an ever increasing tool in both the corporate and government arenas, the need for cyber security increases as well, and with it, the need for skilled cyber security professionals. One of the fastest growing job markets, demand for cybersecurity professionals over the past five years grew 3.5 times faster than demand for other IT jobs and about 12 times faster than all other jobs. According to the Department of Labor, demand for computer security specialists will grow as businesses and government invest more heavily in cyber security, in order to protect
vital computer networks and electronic infrastructures from attack.

The Bachelor of Science degree in Cyber Security (BSCS) is relevant to the rapidly changing landscape of information security. The techniques, policies, operational procedures, and technologies that secure and defend information systems in local and more broadly based domains will be covered. Hands-on learning is an integral part of the BSCS and in the Maine Cyber Security Cluster (MCSC) Virtual Lab, students experience combating simulated cyber security attacks and develop experience that can be applied immediately in the workplace.

**Program Requirements**

The minimum number of credits required for the degree: 121

*University Core*
College Writing
EYE 112 Built Environment
Quantitative Reasoning - MAT 120 Introduction to Statistics
Creative Expression
  Cultural Interpretation
Socio-cultural Analysis - Economics (ECO)
Science Exploration - Physics or Chemistry with Lab
Ethical Inquiry - PHI 235 Philosophy, Social Media, and Security
Diversity
International
Thematic cluster - Professional Practices Recommended
Cluster Course 1
Cluster Course 2
Cluster Course 3
Capstone - ITT 460

*Departmental Requirements*
ITP 210 Technical Writing
ITP 230 Project Management
ITP 250 Management Information Systems
ITP 350 Leadership, Teambuilding and Facilitation
MAT 108 College Algebra
MAT 145 Discrete Math

*General Electives - 6 credits*

*Technical - Required*
ITT 181 Computer Applications and Concepts
  ITP 184 Python Programming
  ITP 200 Introduction to Cyber Security
ITT 270 Introduction to Computer Hardware
ITT 272 Introduction to Computer Networking
ITT 311 Infrastructure Communication Systems
  ITP 362 Operating Systems Security
ITT 373 Intermediate Computer Networking
ITT 376 Network Security and Ethics
ITT 383 Databases
ITT 385 Integrative Programming
ITT 413 Cyber Security II
COS 160/170 Structured Programming: Java
COS 161 Algorithms in Programming
COS 285 Data Structures
STH 440 Internship

*Technical Electives - Recommended - 9 credits*
BS in Information Technology

Description

The Bachelor of Science degree in Information Technology is designed to prepare individuals to develop, manage, and maintain computer and network systems in organizations. Areas of study include: organizational issues and information systems, application technologies, software methods and technologies, systems infrastructure, and computer hardware and architecture.

The degree is specifically designed to accommodate students with associate degrees in information technology, however, a four year curriculum is available for traditional students with no transfer credit.

Program Requirements

Bachelor of Science in Information Technology - (for traditional students)

The minimum number of credits required for the degree: 121

University Core

College Writing
EYE 112 Built Environment
Quantitative Reasoning - MAT 120 Introduction to Statistics
Creative Expression
Cultural Interpretation
Socio-cultural Analysis - Economics (ECO)
Science Exploration - Physics or Chemistry with Lab
Ethical Inquiry
Diversity
International
Thematic cluster - Professional Practices Recommended
Cluster Course 1
Cluster Course 2
Cluster Course 3
Capstone - ITT 460

Departmental Requirements

ITT 210 Technical Writing
ITT 230 Project Management
ITT 250 Management Information Systems
ITT 350 Leadership, Teambuilding and Facilitation
MAT 108 College Algebra
MAT 145 Discrete Math

General Electives - 6 credits

Technical - Required

ITT 181 Computer Applications and Concepts
ITT 241 Information and Communication Technologies
ITT 270 Introduction to Computer Hardware
ITT 272 Introduction to Computer Networking
ITT 281 Internet Web Site Development
ITT 311 Infrastructure Communication Systems
ITT 373 Intermediate Computer Networking
ITT 376 Network Security and Ethics
ITT 382 Advanced Web Site Development
ITT 385 Integrative Programming
ITT 486 User Experience
ITT 487 Operations Senior Seminar
COS 160/170 Structured Programming: Java
COS 161 Algorithms in Programming
Bachelor of Science in Information Technology - (for transfer students)

The minimum number of credits required for the degree: 120

University Core
- College Writing
- Quantitative Reasoning - MAT 120 Introduction to Statistics
- Creative Expression
- Cultural Interpretation
- Socio-cultural Analysis - Economics (ECO)
- Science Exploration - Physics or Chemistry with Lab
- Ethical Inquiry
- Diversity
- International
- Thematic cluster - Professional Practices Recommended
- Cluster Course 1
- Cluster Course 2
- Cluster Course 3
- Capstone - ITT 460

Departmental Requirements
- ITP 210 Technical Writing
- ITP 230 Project Management
- ITP 250 Management Information Systems
- ITP 350 Leadership, Teambuilding and Facilitation
- MAT 108 College Algebra
- MAT 1XX Finite Math

General Electives - Variable credits

Technical Courses
Technical courses within the major differ depending on the community college curriculum but are fulfilled by courses taken as part of an associate degree in information technology plus selected courses at USM. Competency standards identified by the Association for Computing Machinery and articulation agreements between the schools are used to determine course equivalencies.

BS in Technology Management

Description
The Technology Management degree program prepares individuals to become technically oriented management professionals who plan, direct, organize, and control operations in a wide variety of industrial, business, and service organizations. Students concentrate in one of the following areas.

Industrial Management Concentration
This concentration is designed to prepare graduates for leadership and management positions in a wide variety of technical environments. Students in this concentration take courses to understand the many organizational elements and functions composing industrial operations and will develop a broad-based, cross-sectional/functional understanding as a "generalist" management professional. This concentration is only available to transfer students with an associate degree in a technical discipline and nontraditional students with related technical experience and
training equivalent to an associate degree.

**Precision Manufacturing Concentration**

This concentration is designed to prepare graduates for professional careers in leadership and management that emphasize theory and application of computer-intensive/automated manufacturing environments. Students in this concentration take management oriented courses to enhance their skills and training in areas such as project management, teaming, industrial organization, facility planning, supply chain management, quality, cost analysis and control, safety, accounting, and information systems. This concentration is only available to transfer students with an associate degree in a machine tool or precision machining discipline and nontraditional students with related technical experience and training equivalent to an associate degree.

**Information and Communications Technology Concentration**

This concentration is designed to prepare graduates for leadership and management positions in a computer applications-oriented environment integral to most organizations. Students in this concentration take courses that emphasize theory and application relating to the management and operation of computer and technical systems used for communications, information management, control technology, and publishing. Students completing this program will develop a focused understanding of computer applications-based and data/information-intensive operations. Students may also elect to complete minors in computer science, business administration, economics, or studio art. This concentration is available to four year students and transfer students with an associate degree in an information related discipline and nontraditional students with related technical experience and training equivalent to an associate degree in an information related discipline.

**Electro-Mechanical Systems Concentration**

This concentration is designed to prepare graduates for professional careers in leadership and management that emphasize theory and application of computer-controlled/automated equipment-intensive environments. Students in this concentration utilize their skills and training relating to the design, control, and integration of electrical, mechanical, hydraulic, and pneumatic components and assemblies. Students completing this program will develop an understanding of managing projects and leading teams focused on power and control systems utilized in industrial, environmental protection, construction, medical, transportation, alternative energy, and military sectors. This concentration is only available to transfer students with an associate degree in an electricity/electronic or mechanical systems discipline and nontraditional students with related technical experience and training to satisfy the technical competency requirements of the concentration.

**Program Requirements**

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 following tables. A minimum of 15 credit hours or 5 courses must be taken in the Department.

**NOTE:** Students in the technology management degree program will be required to complete a senior assessment as part of the graduation requirement.

- Concentration in Industrial Management (for nontraditional/transfer students)
- Concentration in Information and Communications Technology (for traditional students)
- Concentration in Information and Communications Technology (for nontraditional/transfer students)
- Concentration in Precision Manufacturing (for nontraditional/transfer students)
- Concentration in Electro-Mechanical Systems (for nontraditional/transfer students)

**Concentration in Industrial Management (for nontraditional/transfer students)**

The minimum number of credits required for the degree: 121

**University Core**
- College Writing
- Quantitative Reasoning - MAT 140 Precalculus (or above)
- Creative Expression
- Cultural Interpretation
- Socio-cultural Analysis - Economics (ECO)
- Science Exploration - Physics with Lab
- Ethical Inquiry
- Diversity
- International
- Thematic cluster - Professional Practices Recommended
- Cluster course 1
- Cluster course 2
Cluster course 3
Capstone - ITT 460

Departmental Requirements
ITP 210 Technical Writing
MAT 148 Applied Calculus
Statistics
ITT 181 Computer Applications and Concepts
Physical Science

General Elective - 6 Credits

Professional - Required
ITP 230 Project Management
ITP 280 Managing Organizations in a Technological Environment
ITP 310 Facility Planning
ITP 330 Supply Chain Management
ITP 340 Quality Management
ITP 350 Leadership, Teambuilding and Facilitation
ITP 381 Human Resource Development
ITP 410 Technical Operations and Strategies
or ITP 250 Management Information Systems
ITP 490 Cost Analysis and Control
ITS 320 Workplace Safety and Health Management Systems
ACC 110 Financial Accounting Information for Decision Making

Technical/Occupational Specialization (36 Credits)
ITT 400 Occupational Competency (Portfolio Assessment)
or an associate degree from an accredited institution with Department approval.

Concentration in Information and Communications Technology (for traditional students)

The minimum number of credits required for the degree: 121

University Core
College Writing
EYE 112 Built Environment
Quantitative Reasoning - MAT 140 Precalculus (or above)
Creative Expression
Cultural Interpretation
Socio-cultural Analysis - Economics (ECO)
Science Exploration - Physics or Chemistry with Lab
Ethical Inquiry
Diversity
International
Thematic cluster - Professional Practices Recommended
Cluster course 1
Cluster course 2
Cluster course 3
Capstone - ITT 460

Departmental Requirements
ITP 210 Technical Writing
MAT 148 Applied Calculus
Statistics
Computer Programming
ITP 250 Management Information Systems
Physical Science

General Elective - 3 Credits

Professional - Required
ITP 230 Project Management
ITP 280 Managing Organizations in a Technological Environment
Professional Electives - 12 credits
From approved ITP courses or students completing an approved minor may use courses in their minor as professional electives if they are not required courses in the INT program or otherwise used to fulfill INT degree requirements. Courses may not be used to fulfill more than one requirement on the degree worksheet. When the minor is used to fulfill the thematic cluster, the remaining minor courses may be used as professional electives up to the 1/3 restriction of the core. The remaining professional elective requirements will be filled using department professional courses. Approved minors are:
- Computer Science
- Economics
- Business Administration
- Studio Art

Technical - Required
- ITT 181 Computer Applications and Concepts
- ITT 241 Information and Communications Technologies
- ITT 272 Intro to Computer Networking
- ITT 281 Internet Web Site Development
- ITT 282 Computer Aided Design
- ITT 311 Infrastructure Communication Systems
- ITT 343 Graphic Communications Technologies
- ITT 373 Intermediate Computer Networking
- ITT 382 Advanced Web Site Development

Technical Electives - 12 Credits
- ITT Designated Courses

Concentration in Information and Communications Technology (for nontraditional/transfer students)

The minimum number of credits required for the degree: 121

University Core
- College Writing
- Quantitative Reasoning - MAT 140 Precalculus (or above)
- Creative Expression
- Cultural Interpretation
- Socio-cultural Analysis - Economics (ECO)
- Science Exploration - Physics or Chemistry with Lab
- Ethical Inquiry
- Diversity
- International
- Thematic cluster - Professional Practices Recommended
  - Cluster course 1
  - Cluster course 2
  - Cluster course 3
  - Capstone - ITT 460

Departmental Requirements
- ITP 210 Technical Writing
- MAT 148 Applied Calculus
- Statistics
- Computer Programming
- ITP 250 Management Information Systems
- Physical Science

General Elective - 9 Credits

Professional - Required
- ITP 230 Project Management
- ITP 280 Managing Organizations in a Technological Environment
- ITP 350 Leadership, Teambuilding and Facilitation
- ITP 381 Human Resource Development
**Professional Electives - 12 credits**

From approved ITP courses or students completing an approved minor may use courses in their minor as professional electives if they are not required courses in the INT program or otherwise used to fulfill INT degree requirements. Courses may not be used to fulfill more than one requirement on the degree worksheet. When the minor is used to fulfill the thematic cluster, the remaining minor courses may be used as professional electives up to the 1/3 restriction of the core. The remaining professional elective requirements will be filled using department professional courses. Approved minors are:

- Computer Science
- Economics
- Business Administration
- Studio Art

**Information/Communications Specialization (36 credits)**

An associate degree from an accredited institution with Department approval.

**Concentration in Precision Manufacturing (for non-traditional/transfer students)**

The minimum number of credits required for the degree: 121

**University Core**

- College Writing
- Quantitative Reasoning - MAT 140 Precalculus (or above)
- Creative Expression
- Cultural Interpretation
- Socio-cultural Analysis - Economics (ECO)
- Science Exploration - Physics with Lab
- Ethical Inquiry
- Diversity
- International
- Thematic cluster - Professional Practices Recommended
- Cluster course 1
- Cluster course 2
- Cluster course 3
- Capstone - I TT 460

**Departmental Requirements**

- ITP 210 Technical Writing
- MAT 148 Applied Calculus
- Statistics
- I TT 181 Computer Applications and Concepts
- ACC 110 Financial Accounting Information for Decision Making
- Physical Science

**Professional - Required**

- ITP 230 Project Management
- ITP 250 Management Information Systems
- ITP 280 Managing Organizations in a Technical Environment
- ITP 310 Facility Planning
- ITP 330 Supply Chain Management
- ITP 340 Quality Management
- ITP 350 Leadership, Teambuilding and Facilitation
- ITP 410 Technical Operations and Strategies
- ITP 490 Cost Analysis and Control
- ITS 320 Workplace Safety and Health Management Systems

**Professional ITP or Technical I TT Elective - 3 Credits**

- STH 440 Internship or Elective in major

**Technical/Occupational Specialization (36 Credits)**

- I TT 400 Occupational Competency (Portfolio Assessment)

  or an associate degree from an accredited institution with Department approval.

**Concentration in Electro-Mechanical Systems (for nontraditional/transfer students)**
The minimum number of credits required for the degree: 121

**University Core**
- College Writing
- Quantitative Reasoning - MAT 140 Precalculus (or above)
- Creative Expression
- Cultural Interpretation
- Socio-cultural Analysis - Economics (ECO)
- Science Exploration - Physics with Lab
- Ethical Inquiry
- Diversity
- International
- Thematic cluster - Professional Practices Recommended
  - Cluster course 1
  - Cluster course 2
  - Cluster course 3
- Capstone - ITT 460

**Departmental Requirements**
- ITP 210 Technical Writing
- MAT 148 Applied Calculus
- Statistics
- ITT 181 Computer Applications and Concepts
- ACC 110 Financial Accounting Information for Decision Making
- Physical Science

**Professional - Required**
- ITP 230 Project Management
- ITP 250 Management Information Systems
- ITP 280 Managing Organizations in a Technological Environment
- ITP 310 Facility Planning
- ITP 330 Supply Chain Management
- ITP 340 Quality Management
- ITP 350 Leadership, Teambuilding and Facilitation
- ITP 381 Human Resource Development
- ITP 410 Technical Operations and Strategies
- ITP 490 Cost Analysis and Control
- ITP 320 Workplace Safety and Health Management Systems

**Professional ITP or Technical ITT Elective - 3 Credits**
- STH 440 Internship or Elective in major

**Technical/Occupational Specialization (36 Credits)**
NOTE: Completion of the electro-mechanical (EM) concentration requires a minimum of 121 credits satisfying the University, department, professional, and technical requirements. Academic course equivalency or transfer from regionally accredited related associate's degree programs can only be applied to the University, department, and/or technical requirements via portfolio assessment or transfer. Students interested in the EM concentration must meet with an academic advisor regarding the suitability of credit for portfolio assessment or articulation as applied to the 121 credit requirement for graduation.

**Minor in Cyber Security**

**Description**

This minor is designed to provide students with a broad range of courses in cyber security and cyber security related areas. Almost every aspect of modern communications is subject to cyber security attacks. Cyber security techniques and associated hardware and software are growing at an accelerating pace. Along with these fast-paced technologies, the attacks are becoming more sophisticated and frequent. As a result, new and exciting jobs in cyber security are emerging on a daily basis.
To obtain a minor in the Department of Technology, students must take at least nine credits in the minor beyond those used in their major, technical or professional courses in another degree in the Department of Technology, or another minor.

Students can obtain only one minor in a degree or concentration in the Department of Technology and that minor cannot be in another concentration in their degree.

Only six transfer credits can be used toward a minor in a degree or concentration in the Department of Technology and they must be equivalent to courses in the minor. Transfer courses are subject to review by the minor advisor and subject matter expert.

Any exceptions to this policy must be approved by a vote of the Department faculty.

**Program Requirements**

A minimum of 18 credit hours from the following courses monitored by a faculty advisor in the Department. Students must declare the minor. Admission to the minor will require the completion of at least 24 credits in the student's major with a grade point average of 2.0. Successful completion of the minor will require a grade point average of 2.0 in the courses making up the minor.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT 200 or COS 200 Intro to Cyber Security</td>
<td>3</td>
</tr>
<tr>
<td>ITT 272 Introduction to Computer Networking</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose three courses from Group A**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT 362 Operating Systems Security</td>
<td>3</td>
</tr>
<tr>
<td>ITT 376 Network Security and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ITT 413 Cyber Security II</td>
<td>3</td>
</tr>
<tr>
<td>ITT 482 Computer Forensics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose one course from Group B**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC 110 Financial Accounting Information for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>BUS 280 Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>COS 398 Professional Ethics and Social Impact of Computing</td>
<td>3</td>
</tr>
<tr>
<td>PHI 235 Philosophy, Social Media, and Security</td>
<td>3</td>
</tr>
<tr>
<td>RMI 320 Introduction to Risk Management and Insurance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Minor in Digital Media and Design**

**Description**

This interdisciplinary minor is for students in any major interested in the use of modern digital technology. Students will learn a balance of practical knowledge and advanced technology skills, as well as theoretical foundations to thrive in the digital world. Through selected courses, students design, develop and evaluate digital content using multimedia technology and relevant learning theories. A diverse selection of Art, Media Studies, and Technology courses relevant to Digital Media and Design are available each semester.

**Program Requirements**

A minimum of 15 credit hours from the following courses monitored by a faculty advisor in the Department. Students must declare the minor. Admission to the minor will require the completion of at least 24 credits in the student's major with a grade point average of 2.0. Successful completion of the minor will require a grade point average of 2.0 in the courses making up the minor.

Students should complete the two required courses from outside of their major first, as they may be prerequisites to the elective courses. Two of the three elective courses must be from outside a student's major.
Required: Complete two courses from outside your major

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 222 Digital Art and Design</td>
<td>3</td>
</tr>
<tr>
<td>CMS 203/204 Introduction to Video Production and Lab</td>
<td>4</td>
</tr>
<tr>
<td>ITT 231 Technical Visualization</td>
<td>3</td>
</tr>
<tr>
<td>or ITT 241 Information and Communication Technologies</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives: Complete three courses, two from outside your major

Digital Art

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 321 Exploring Time-Based Art and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 372 Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 420 Advanced Studio in Digital Art I</td>
<td>3</td>
</tr>
</tbody>
</table>

Communication and Media Studies

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMS 220 Topics in Media Production I</td>
<td>3</td>
</tr>
<tr>
<td>CMS 222 Digital Radio and Audio Production</td>
<td>3</td>
</tr>
<tr>
<td>CMS 320 Topics in Media Production II</td>
<td>3</td>
</tr>
<tr>
<td>CMS 322 Digital Audio Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>CMS 340/341 Field Video Production and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CMS 440/441 Advanced Field Video Production and Lab</td>
<td>4</td>
</tr>
<tr>
<td>CMS 460 Topics in Media Production III</td>
<td>3</td>
</tr>
</tbody>
</table>

Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT 281 Internet Web Site Development</td>
<td>3</td>
</tr>
<tr>
<td>ITT 282 Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>ITT 343 Graphic Communication Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ITT 344 Digital Video and Animation Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ITT 444 Digital Imaging Technologies</td>
<td>3</td>
</tr>
</tbody>
</table>

Minor in Industrial Management

Description

This minor is designed to provide students with a variety of management courses valuable in technical environments. Students take courses to understand the many organizational elements and functions composing industrial operations. Students completing this minor will develop a broad-based, cross-sectional/functional understanding as a "generalist" management professional.

To obtain a minor in the Department of Technology, students must take at least nine credits in the minor beyond those used in their major, technical or professional courses in another degree in the Department of Technology, or another minor.

Students can obtain only one minor in a degree or concentration in the Department of Technology, and that minor cannot be in another concentration in their degree.

Only six transfer credits can be used toward a minor in a degree or concentration in the Department of Technology and they must be equivalent to courses in the minor. Transfer courses are subject to review by the minor advisor and subject matter expert.

Any exceptions to this policy must be approved by a vote of the Department faculty.

Program Requirements

A minimum of 18 credit hours from the following courses monitored by a faculty advisor in the Department. Students must declare the minor. Admission to the minor will require the completion of at least 24 credits in the student's major with a grade point average of 2.0. Successful completion of the minor will require a grade point average of 2.0 in the courses making up the minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITP 210 Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ITP 280 Managing Organizations in a Technological Environment</td>
<td>3</td>
</tr>
<tr>
<td>ITP 310 Facility Planning</td>
<td>3</td>
</tr>
<tr>
<td>ITP 330 Supply Chain Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in Information and Communications Technology

Description

This minor is designed to provide students with a variety of courses in information and communications technologies. Most if not all organizations use digital information and communications systems, and to an increasing degree employees are expected to have skills in those areas.

To obtain a minor in the Department of Technology, students must take at least nine credits in the minor beyond those used in their major, technical or professional courses in another degree in the Department of Technology, or another minor.

Students can obtain only one minor in a degree or concentration in the Department of Technology, and that minor cannot be in another concentration in their degree.

Only six transfer credits can be used toward a minor in a degree or concentration in the Department of Technology and they must be equivalent to courses in the minor. Transfer courses are subject to review by the minor advisor and subject matter expert.

Any exceptions to this policy must be approved by a vote of the Department faculty.

Program Requirements

A minimum of 18 credit hours taken from the following list of courses monitored by a faculty advisor in the Department. Students must declare the minor. Admission to the minor will require the completion of at least 24 credits in the student's major with a grade point average of 2.0. Successful completion of the minor will require a grade point average of 2.0 in the courses making up the minor.

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITT 231 Technical Visualization</td>
<td>3</td>
</tr>
<tr>
<td>ITT 241 Information and Communications Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ITT 270 Introduction to Computer Hardware</td>
<td>3</td>
</tr>
<tr>
<td>ITT 272 Introduction to Computer Networking</td>
<td>3</td>
</tr>
<tr>
<td>ITT 281 Internet Web Site Development</td>
<td>3</td>
</tr>
<tr>
<td>ITT 282 Computer-Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>ITT 311 Infrastructure Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>ITT 343 Graphic Communication Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ITT 344 Digital Video and Media Streaming Technologies</td>
<td>3</td>
</tr>
<tr>
<td>ITT 373 Intermediate Computer Networking</td>
<td>3</td>
</tr>
<tr>
<td>ITT 376 Network Security and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ITT 382 Advanced Web Site Development</td>
<td>3</td>
</tr>
<tr>
<td>ITT 384 Advanced Computer-Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>ITT 444 Animation and Motion Imaging Technologies</td>
<td>3</td>
</tr>
<tr>
<td>COS 160/170 - Structured Problem Solving:Java w/lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Minor in Project Management

Description
This minor is designed to provide students with an understanding of the various components associated with planning, executing, monitoring, and controlling projects in a variety of settings. It provides knowledge of predictive and adaptive approaches to project management and a foundation in the associated principles, techniques, and tools. Students are exposed to a broad range of content and applications consistent with contemporary approaches to managing projects and working in multidisciplinary environments.

To obtain a minor in the Department of Technology, students must take at least nine credits in the minor beyond those used in their major, technical or professional courses in another degree in the Department of Technology, or another minor.

Students can obtain only one minor in a degree or concentration in the Department of Technology, and that minor cannot be in another concentration in their degree.

Only six transfer credits can be used toward a minor in a degree or concentration in the Department of Technology and they must be equivalent to courses in the minor. Transfer courses are subject to review by the minor advisor and subject matter expert.

Any exceptions to this policy must be approved by a vote of the Department faculty.

Program Requirements

A minimum of 15 credit hours from the following courses monitored by a faculty advisor in the Department. Students must declare the minor. Admission to the minor will require the completion of at least 24 credits in the student’s major with a grade point average of 2.0. Successful completion of the minor will require a grade point average of 2.0 in the courses making up the minor.

Required Courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITP 230 Project Management</td>
<td>3</td>
</tr>
<tr>
<td>ITP 331 Agile/Adaptive Project Management</td>
<td>3</td>
</tr>
<tr>
<td>ITP 490 Cost Analysis and Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two from the following (6 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITP 280 Managing Organizations in a Technological Environment</td>
<td>3</td>
</tr>
<tr>
<td>ITP 340 Quality Management</td>
<td>3</td>
</tr>
<tr>
<td>ITP 350 Leadership, Teambuilding and Facilitation</td>
<td>3</td>
</tr>
<tr>
<td>ITP 381 Human Resource Development</td>
<td>3</td>
</tr>
<tr>
<td>ITP 410 Technical Operations and Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Course Descriptions

ITC 100 Introduction to Construction Management
This is the first course in the construction management program and will introduce students to construction management. Topics include: the scope of the construction industry, the scope of management activities, the bidding process, contracts, project stages, cost estimating, administration, operations and site management, project planning and scheduling, project monitoring, construction safety and health, and personal and company equipment. Offered fall semester only. Cr 3.

ITC 341 Construction Documents and Specifications
This course will consist of a comprehensive overview of the value and importance of how construction documents define the rights of, responsibilities of, and relationships among all the parties that are necessary for the successful completion of any construction project. Students will gain an understanding of the roles and relationships of all participants, the architect/engineer (A/E), the contractor(s) and all other project participants who must work within guidelines for a successful project, from conception through design and construction to facility management. Investigation into various documents, agreements, conditions of contracts and specifications will be addressed. The importance of standardized document format will be emphasized. Prerequisite: ITC 100 or instructor permission. Offered fall semester only. Cr 3.

ITC 351 Construction Cost Estimating
This course will train students to estimate the costs of various construction activities. Emphasis will be placed on the theory and application of the primary concepts used in the analysis and control of costs pertaining to planning, development, and managing construction operations. The major themes of the budget estimating process; the bid contract estimating process; the negotiated contract estimating process; and advanced estimating techniques will be covered. Spreadsheets and commercial estimating applications will be used. Prerequisite: ITC 100 or instructor permission. Offered fall semester only. Cr 3.
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ITP 432 Construction Project Management
This course focuses on construction project scheduling and control using contemporary computer applications. Topics covered include: activity and resource scheduling, schedule updating and control, project resource management, contract management, cost management, contractor integration, and change management. Prerequisites: ITC 100 and ITP 230 or instructor permission. Offered spring semester only. Cr 3.

ITP 442 Construction Jobsite Management
This course will consist of an examination of the responsibilities and challenges of a construction job site superintendent and project manager including construction contract administration. Standards by professional associations including the American Institute of Architects (AIA), Engineers Joint Contract Documents Committee (EJCDC), Design-Build Institute of America (DBIA) and ConsensusDocs will be examined. The major portion of this course will consist of an examination and review of project and site planning, administration, submittals, coordination, materials, methods, codes, QA & QC, safety, project documentation, laws, regulations, interpretations, modifications, claims, disputes, measurements, payments, and closeout. Actual construction examples will be used. Prerequisites: ITC 100 and ITC 341 or instructor permission. Offered spring semester only. Cr 3.

ITP 210 Technical Writing
A basic technical writing course that strengthens critical thinking, collaboration, and communication skills. Study includes document purpose, situation analysis, style, format and production of reports, proposals, instructions, procedures, technical descriptions, forms, letters, memos, and visual aids, as well as digital and virtual communication. Prerequisite: ENG 100 or equivalent. Offered fall and spring semesters and summer session. Cr 3.

ITP 230 Project Management
This course will present a structured analysis of planning, organizing, directing, controlling, and monitoring resources related to project management by completing a set of well-defined tasks. Within this course, significant effort will be devoted to understanding the international, social, political, economic, environmental and cultural issues in context of the interrelationships, responsibilities, and demands of project management between technologies, resources, project scope, and budget that impact project success in a global, international environment. Case studies will be used throughout the course to broaden the perspective and understanding of the participant's knowledge and application of project management's best practices, and their ability to create and evaluate projects and project performance in an international, global economy. The introduction of computer-based tools in the management of projects will also be covered. Fulfills the International core requirement. Offered fall and spring semesters and summer session. Cr 3.

ITP 250 Management Information Systems
This course will serve as an introduction to management information systems in areas such as: decision support systems, resource and human resource management, enterprise resource planning, supply chain management, customer relationship management, project management, and records management. Topics covered will include but are not limited to: systems analysis, system modeling and design, data acquisition, security, and maintenance. Prerequisite: IIT 181 or instructor permission. Offered fall semesters. Cr 3.

ITP 280 Managing Organizations in a Technological Environment
An introduction to the application of management principles to systems, people and organizations in technology-intensive industries. Students will learn managerial approaches to the business, corporate, and project levels of organizations; and discover contrasting demands of entrepreneurial and established technology firms. Emphasis will be placed on recognizing the intricate, multidisciplinary nature of the management of technology, including an understanding of commitment, team-based performance norms and decision making, conflict management, power sharing, self-directed team work and organizational alliances. Topics include the impact of technology on corporate strategy, operations, and decision-making and how emerging strategies/solutions/capabilities can be developed to create business efficiencies and manage organizational resources. The course combines conceptual and experiential approaches involving exercises, case studies, lectures, videos, and group work. Offered spring semester only. Cr 3.

ITP 310 Facility Planning
This course provides participants with the analytical tools and knowledge to effectively and efficiently plan the physical facility for a wide variety of enterprises. Case studies used in this course may include: hospitals, airports, manufacturing plant floors, distribution centers, fire departments, grocery and retail stores, college campuses, construction sites, and shopping malls. Offered spring semester only. Cr 3.

ITP 330 Supply Chain Management
This course explores selected analytical tools and information associated with supply chain management including activities that are used to centrally control the production, shipment, and distribution of products. Classes consist of lectures and problem solving activities that combine aspects of production control such as forecasting, capacity planning, material requirement planning, order quantities, order points and line balancing with the development and management of supply chains from sourcing and procurement through conversion and logistics. Prerequisite: MAT 120 or instructor permission. Offered fall semester only. Cr 3.

ITP 331 Agile/Adaptive Project Management
In an increasingly complex world, the pace of change, the degree of connectivity, and the scale of operations are leading to rapidly escalating complexity in many domains. This course focuses on agile and adaptive project management methods that provide a very different approach to traditional linear project management and apply to the needs of projects that reach a high degree of complexity. Such needs make it more important for organizations to become agile and to engrain process improvement leadership in the way of working within the organization. The
course looks at alternative approaches designed to deal with today’s work environment. It provides greater depth in the review and application of contemporary processes such as risk, quality, and leadership; and methodologies and frameworks such as Agile, Lean, Kanban, Scrum, and Lean Startup. Prerequisite: ITP 230 or instructor permission. Cr 3.

**ITP 340 Quality Management**
An overview addressing fundamental concepts and principles of quality control applied to organizations. Major topics include theory and application of qualitative and quantitative tools and techniques as well as quality awards and standards. Specific topics include foundations of quality, planning tools, traditional tools, variability, process set-up verification, pre-control, SPC process capability analysis, acceptance sampling, and quality awards. Prerequisite: MAT 120 or instructor permission. Offered fall semester only. Cr 3.

**ITP 350 Leadership, Teambuilding and Facilitation**
An exploration of topics related to leadership, team building, group dynamics, and an introduction to the practices and goals of successful facilitation of face-to-face groups and virtual meetings. Teambuilding topics include member and group participant types and functions; stages to teambuilding; creating and building teams; dysfunctions and conflicts within teams and groups; and teams in the roles of content controllers. Leadership emphasis is placed on foundational principles, capabilities and practices that help leaders self-manage, engage and influence diverse team members, and generate shared commitment for team and project success. The course explores various contexts, motivations and paths that evoke leadership in technology through a series of case studies and exercises in critical knowledge areas and skills required of technology leaders. Facilitation topics include developing techniques and skills in the role of a meeting facilitator and process leader, identifying and defining individual participant behaviors and how those interrelationships affect team dynamics, developing and designing facilitation agendas, preparing and performing facilitations, facilitating conflict, creating participation, and meeting management and ethical responsibilities. Offered spring semester only. Cr 3.

**ITP 381 Human Resource Development**
Students are introduced to the various functions of human resources in industrial settings. Topics covered include human resource planning, job analysis, employee selection, performance management, compensation, benefits management, safety, training, and employee relations. Offered fall semester only. Cr 3.

**ITP 410 Technical Operations and Strategies**
This course will focus on the theory and application of concepts utilized to maintain global manufacturing competitiveness. Major topics may include Six Sigma, lean manufacturing, kanban, automation, visual signaling, poka-yoke, takt time, and kaizen techniques. Waste elimination, set-up time reduction, and continuous improvement theory and practices will be highlighted. Offered spring semester only. Cr 3.

**ITP 490 Cost Analysis and Control**
This course will cover the theory and application of concepts used in analysis and control of costs pertaining to planning, developing, and managing industrial operations. Concepts include financial/cost accounting, time value of money, methods of evaluating competing alternatives, economic value-added analysis, and capital equipment cost justification. Prerequisite: ACC 110 or instructor permission. Offered spring semester only. Cr 3.

**ITS 320 Workplace Safety and Health Management Systems**
This course covers the importance of safety and health in the workplace. Emphasis will be placed on the worker in the work environment with an emphasis on OSHA and other regulatory agencies, measures for identifying and controlling workplace hazards, record keeping and reporting, ergonomics, workplace violence and security, fire prevention, electrical safety, hazardous materials, job safety analysis, risk assessment, machine safeguarding, hazardous waste, and selected environmental problems. This course includes OSHA's 30 hour certification. Offered fall and spring semesters. Cr 3.

**ITT 181 Computer Applications and Concepts**
An introduction to current and emerging computer applications. The course includes an overview of basic computer hardware and operating systems, file management, and general application software. Emphasis is on computer terms, concepts, and the integration of activities, including operating system functions, word processing, spreadsheets, databases, graphics, and communication. Offered fall and spring semesters. Lecture and lab. Cr 3.

**ITT 184 Python Programming**
A first introduction to computer programming for solving practical problems, taught in Python, a modern object-oriented dynamic computer language. The course teaches how to represent aggregates of data, process data selectively and repetitively, structure programs with functions and use predefined libraries with an eye towards acquiring, managing, visualizing and performing basic analysis of sets of data. Lots of hands-on programming, both at home and in the lab. Prerequisite: MAT 108 or instructor permission. Cr 4.

**ITT 200 Introduction to Cyber Security**
An introduction to the fundamentals of cyber security and information assurance. Students will develop a knowledge base for defining and recognizing both online threats and potential targets, and develop intellectual tools for evaluating relative risks within cyberspace. Students will
apply theories and best practices for addressing potential costs of countermeasures for cyber attacks. Prerequisite: COS 160/170 or ITT 181 or instructor permission. Offered spring semester only. Lecture and lab. Cr 3.

**ITT 221 Power and Energy Processing**
A technical investigation into energy converters and transactional power systems. Course emphasis is on mechanical and electrical power converters and transmission systems as well as their applications to modern technology and equipment. Lecture and lab. Offered fall semester only. Cr 3.

**ITT 231 Technical Visualization**
This is an essential foundational course of conventional Technical Visualization, with an emphasis on technical foundations in sketching and drawing 2D and 3D illustration graphics, and exploring technical visualization skills development for problem solving. Content includes basic skills development using contemporary standards for technical sketching for creating orthographic projections, detail and assembly working drawings, and pictorial projections, instructional storyboarding, and developing visual thinking skills for creating technical visualizations and presentations. This course is an essential foundation to skills developed in ITT 282 Computer Aided Design. Offered spring semester only. Cr 3.

**ITT 241 Information and Communication Technologies**
In the pursuit of digital literacy, students enrolled in this course will participate in designing and creating a broad diversity of introductory hands-on digital projects, apply communications strategies, perform collaborative tasks, implement digital workflows, and formulate proposals and presentations as related to course assignments, readings, lecture topics, discussions, demonstrations, and technological analysis for both established and emerging Information and Communication Technologies. This course provides students with a balance of practical knowledge and advanced technology skills, as well as theoretical foundations to thrive in the digital world. Lecture and lab. Offered fall semester only. Cr 3.

**ITT 270 Introduction to Computer Hardware**
The goal of this course is to introduce the hardware components, and their respective functions, of microcomputer systems. Activities address the specification, assembly, upgrading, and maintenance of microcomputers. Assignments may include readings of articles and Web-based documents, discussions, tours, and hands-on activities dealing with microcomputer hardware. It is assumed that students will be proficient with personal computer. Offered on a two-year fall semester rotation. Cr 3.

**ITT 272 Introduction to Computer Networking**
The goal of this course is to develop an understanding of computer networks and provide the basic background necessary for their construction and maintenance. The course consists of readings, discussions, tours, and hands-on activities dealing with the structure, hardware, software, and protocols that make up computer networks. Prerequisite: ITT 181 or instructor permission. Offered fall semester only. Cr 3.

**ITT 281 Internet Web Site Development**
This course develops a basic understanding of and skill in the planning, development, and maintenance of Web sites. Topics include Web site planning methods, HTML, cascading style sheets, HTML editors, FTP, site maintenance, intellectual property issues, and legal issues. Students will develop sample Web pages and associated planning documents, and maintain a Web site on a server. It is assumed that students will be proficient with personal computers. Offered fall semester only. Cr 3.

**ITT 282 Computer-Aided Design**
An introduction to computer-aided design systems and their relationship to design, drafting, production, and documentation processes. Emphasis is on understanding and utilizing computer-aided design (CAD) hardware and software. The course focuses on basic 2D and 3D functions as they generally apply to computer-aided design applications. Lecture and lab. Offered on a two-year fall semester rotation. Cr 3.

**ITT 311 Infrastructure Communication Systems**
An introduction to contemporary telecommunications hardware and applications. Emphasis includes state-of-the-art transmission media such as copper, fiber-optic, and wireless technologies including microwave, radio frequency, and infrared. Additional topics may include: classification of data networks; communications systems parameters such as bandwidth, serial parallel, analog and digital; modulation and multiplexing schemes; and the convergence of data, video, and voice networks. Prerequisite: ITT 272. Offered fall semester only. Cr 3.

**ITT 323 Fluid Power**
An investigation into the theory and application of hydraulic and pneumatic systems in modern day technology and equipment. Course emphasis includes the design, purpose, construction, and maintenance of fluid power devices and systems. Lecture and lab. Offered spring semester only. Cr 3.

**ITT 342 Digital Publishing Technologies**
This course explores methods and technologies for the design of digital documents and assemblage of content information and for reproduction and repurposing to a diversity of media. Emphasis is on a practicum utilizing state of the art computer-based desktop publishing hardware and software. Activities and topics include design, layout, and management of color digital document preparation for production and cross-media specifications; digital imaging and color management; digital vector graphics for illustration, large format, and packaging products; and variable data management for output systems. An emphasis on terminology, applications, processes, materials and substrates used in conventional and digital workflows for creating artifacts. Lecture and lab. Cr 3.
IT 376 Network Security and Ethics
This course examines the issues of network security from both the liabilities and the guarantees that face network administrators and network security officers. Interrelated with the issues of network security are the ethical responsibilities of those who manage computer networks. Topics addressed in this course will include practical approaches to securing networks using risk analysis, cost effective countermeasures, layered defenses, and policy development and implementation procedures. This course addresses current topics in "cyber security" and information security "infosec" issues as they pertain to a broad array of networked devices. Prerequisite: ITT 272 or instructor permission. Offered spring semester only. Cr 3.

IT 377 Networking for Video and Multimedia
This course provides a technical introduction to video and multimedia systems as they are developed, delivered, and managed over high-speed networks. Students will explore and work with video and multimedia file formats, and storage systems with a focus on high-speed networks. Video and multimedia standards and protocols will be examined including compression and security aspects of delivering audio, video, animation, games, simulations, and new forms of media. Bandwidth, interactivity, quality of service, platform support, and standards are key components of this course. Prerequisite: ITT 272 or instructor permission. Offered on a two-year spring semester rotation. Cr 3.

IT 382 Advanced Web Site Development
This course develops an understanding of techniques that go beyond basic HTML to develop dynamic Web sites. Topics include a brief review of HTML and cascading style sheets, server-side programming, writing to and reading from files and databases, application planning, and coding standards. Students are expected to be proficient with HTML, CSS, image manipulation, FTP, and basic Web site maintenance. Prerequisites: ITT 281 and COS 160/170 or equivalent or instructor permission. Offered spring semester only. Cr 3.

IT 383 Databases
This course explores database fundamentals, design, implementation, and administration using industry standard technologies and methodologies. The relational database model and the newer semantic object models of database design will be examined and provide students the opportunity to model, design, and implement databases using both methods. Emphasis will be placed on modern multi-user, multi-processing, Web-enabled databases and structured query language (SQL). There will be significant hands-on components in the course. Prerequisites: IT 181 or instructor permission. Cr 3.

IT 384 Advanced Computer-Aided Design
An advanced computer-aided design course focusing on three-dimensional modeling, image rendering, and animation. Emphasis is on understanding and utilizing current and emerging computer-aided design hardware and software to present designs, products, and processes effectively. The course emphasizes basic concepts of three-dimensional model creation and use. Prerequisite: ITT 282 or instructor permission. Offered on a two-year spring semester rotation. Cr 3.

IT 385 Integrative Programming
Organizations use many disparate technologies that need to communicate and work with each other. Integrative Programming focuses on the
"glue" that holds systems together. It surveys several programming languages, including scripting languages, as each has different applications to integration. System architectures such as service-oriented architectures, programming interfaces such as Web services and REST, and programming practices such as mediation support the management, evolution and security of the information systems that support the organization. Prerequisite: COS 160/170 and ITT 272 or instructor permission. Offered spring semester only. 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 Department's portfolio assessment procedures. See advisor for further information. Cr 1-36.

ITT 413 Cyber Security II
Students enrolled in this course will be analyzing and evaluating cyber security and information assurance concerns in contemporary settings. Students will apply knowledge of cyber security approaches for identifying and developing solutions for both online threats and potential targets. Students will apply intellectual tools for evaluating potential risks within cyberspace and apply theory-based best practices for addressing potential risks of countermeasures for cyber attacks. Prerequisite: ITT/COS 200 or instructor permission. Cr 3.

ITT 425 Applied Process Control Engineering
A study of concepts, devices, and applications of electronic controllers and input/output components used to automate cutting edge equipment. Hands-on laboratory sessions focus on instrumentation, writing programmable logic controller programs based on an equipment operating specification, downloading, and interfacing discrete real world input/output devices to Allen Bradley programmable logic controllers. Prerequisites: ITT 181, ITT 221, and ITT 323 or instructor permission. Offered fall semester only. Cr 3.

ITT 427 Applied Automation Engineering
In addition to the theory, participants gain "hands-on" experiences with robots and actually design, fabricate, wire, program, and debug a closed loop automated piece of equipment. Emphasis includes system components, communications integration, programming, and feedback devices. Prerequisites: ITT 221, ITT 323, and ITT 425 or instructor permission. Offered spring semester only. Cr 3.

ITT 444 Animation and Motion Imaging Technologies
In the pursuit of digital literacy, students enrolled in this course will create, capture, and manipulate images to produce animated projects, making the illusion of motion by means of a rapid display of a sequence of static images that minimally differ from each other. Animation can be either seen as analogue media, flip books, video capture, digital media, and presented and archived in multiple formats including animated GIF, Flash animation, digital video capture, and streaming media. Students will explore both the foundations of animation, and advanced digital computer applications for creation of animated environments and products. This course provides students with a balance of practical knowledge and advanced technology skills, as well as theoretical foundations to thrive in the digital world. Students should have appropriate computer skills to enroll in an advanced technology course. Offered on a two-year fall semester rotation. Cr 3.

ITT 460 Capstone
This is a senior level course that integrates curriculum content from previous courses to create a capstone experience with a focus on project management and professional communications. Students will use project management and professional communication techniques to select, complete, and report on an individual or team project that demonstrates achievement at the application and syntheses level. Students are expected to contact the professor and have a project approved before the beginning of the course. Prerequisites: ITP 210, ITP 230, graduating senior status, and advisor or instructor permission. Offered fall and spring semesters. Cr 3.

ITT 486 User Experience
This course analyzes and evaluates properties and characteristics of human user experiences as they relate to interactions with information and computer technologies. Students will learn and analyze a broadly defined understanding of human-computer interaction (HCI), explore the fundamentals and theoretical knowledge of HCI, and how to apply it in a cognitive work environment, home/personal use, and social spaces. Students will identify tools and methodologies for evaluating users experiences using observation, numbers, and statistics. Prerequisites: ITT 241, ITT 272, and ITT 281, or instructor permission. Offered fall semester only. Cr 3.

ITT 487 Operations Senior Seminar
The focus of this course is on operational excellence in practice. Topics will include the impact of virtualization on operations, mobile computing operations and management, business continuity, best operational practices, service quality measures, incident preparedness and recovery and major impacts such as mergers and acquisitions. Guest speakers and field trips will be a component of the course. Prerequisite: graduating senior status, and instructor permission. Cr 3.

ITT 490 Directed Study
Provides upper-level students an opportunity to independently pursue 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: instructor permission. Offered fall and spring semesters. Cr var.

STH 440 Related Occupational Experiences/Internships
This experience is designed to advance technical and supervisory skills during employment with a business or industry. Interested students must meet with the internship coordinator prior to the job search process. The hosting firm and the job description must be approved by the coordinator.
Course Descriptions

GRN 300 Partnering with Family Caregivers
Connecting with family caregivers is crucial for the delivery of a successful care plan. This course explores how providers can address the psychosocial challenges of caring for an aging family member. Family caregivers are responsible for providing the majority of long term care for people who are living with chronic illness and progressive dementia. We will examine the challenges that impact caregiving including physical, emotional and spiritual strain, and how health care providers and social service professionals can provide information, resources and support that will lead to sustainable outcomes for both the caregiver and the care recipient. Prerequisites: junior/senior status, College Writing and any PSY or SOC course. Cr 3.

GRN 313 Health and Later Years
This project-based course is designed for students from diverse fields who are interested in health and aging. The population of older people in the United States is growing at a rate that is unprecedented in American history and no matter what your career path this growth will impact you. Knowledge about illness, medications, physical activity, nutrition, sexuality, cognition and health care delivery will be some of the topics presented. Students will obtain essential information needed to provide effective care for aging clients, patients, loved ones, and themselves. Some community experiences will be expected. Cr 3.

GRN 315 Rehabilitation Services for Older Adult
This course will discuss rehabilitation services for older adults within the present health care system including types of services, cost and reimbursement for services and responsibilities of different rehabilitation professionals. The course will look at the role of the rehabilitation professional in the delivery of services in a variety of medical and community settings typical for older adults. The course will review common conditions for older adults including cardiac, pulmonary, neuromuscular, and orthopedic conditions and provide evidence-based examples of interventions commonly utilized in the rehabilitation profession. Finally, the role of rehabilitation in health promotion, prevention, and well-being will be explored. Prerequisites: College Writing and any PSY or SOC course. Cr 3.

GRN 318 Adult Development and Aging
This advanced course surveys human development from post-adolescence through old age, including death and dying research. The study of adult development and aging addresses physical, cognitive and social-emotional growth as a set of dynamically interacting features of adult development, shaped by genes and environment. These topics will be addressed by exploring contemporary research in psychology, medicine and gerontology. Students will also explore current issues and debates in applied adult development research. There is an emphasis on being able to critically evaluate trends in methodology and application of development research. Cr 3.

GRN 390 Evaluation and Assessment of Older Adults
This course is designed for students who are interested in developing and refining skills in the evaluation and health assessment of older adults. The populations of the world and the United States will almost double by 2030. With the unprecedented increase in the number of older adults there is a growing need to understand their unique social and health care needs. Students will gain insight into the evaluation and health assessment process needed to promote health and well-being in older adults. Prerequisites: College Writing and any PSY or SOC course. Cr 3.

GRN 435 Death and Dying: Contemporary Issues
This course focuses on dying, death, and bereavement in contemporary Western society within the context of theory, research, and practice. Issues around sudden death and dying from a chronic and/or terminal illness will be explored. Selected topics include cardiopulmonary resuscitation, palliative and hospice care, pain and symptom management, physician assisted suicide, family caregiving at the end of life, advance care planning, pregnancy loss, and the death of a child. Normal grief will be differentiated from pathological or traumatic grief. Finally, the continuum of services (e.g., support groups, psycho-educational groups, Internet chat groups) that are available for bereaved persons will be explored. Cr 3.

STH 111 Life Science and Ecology for K-8 Teachers
Provides prospective elementary teachers a deep understanding of the life science and ecology concepts they would be expected to teach up through the eighth grade level according to the Next Generation Science Standards. The course also covers the process and design skills needed to be scientifically literate. The associated laboratory activities are included as part of the course, and students experience science that is directly connected to everyday experiences. Cr 4.

STH 112 Physical and Earth/Space Science for K-8 Teachers
Provides prospective elementary teachers a deep understanding of the physical science and earth/space concepts they would be expected to teach up through the eighth grade level according to the Next Generation Science Standards. The course also covers the process and design skills needed to be scientifically literate. The associated laboratory activities are included as part of the course, and students experience science that is
directly connected to everyday experiences. Cr 4.

**STH 440 College of Science, Technology, and Health Internship**
An in-depth experience in hands-on learning and professional development acquired in the field. Students will focus their efforts in an engaged learning opportunity related to their major and area of professional interest, usually located in a business, institutional, industrial setting, research laboratory, or similar off-campus site. Prerequisites: matriculated student, minimum 60 completed credits, minimum 2.5 GPA, a precise definition of the internship experience and consent of the instructor. Pass/fail only. Generally restricted to CSTH majors. May be repeated. Credit variable Cr 1-6.
University of Maine School of Law

Dean: Danielle Conway

Juris Doctor


The University of Maine School of Law offers high-quality 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 students who become capable and motivated attorneys and leaders in a range of other fields.

The academic program is rigorous and demanding. Thanks to the school’s size, its students have the benefit of small classes, frequent and informal contact with the faculty, and a supportive atmosphere. This sense of collaboration is embraced by students, faculty, staff and alumni.

Maine Law averages less than 300 students, making it one of the smallest law schools in the country. The student body is remarkably varied in age, professional and academic experience, and background.

The Law School's twenty full-time faculty members, along with part-time instructors drawn from practicing attorneys and the judiciary, represent a diversity of backgrounds, expertise, and interests. Maine Law is fully accredited by the American Bar Association and is a member of the Association of American Law Schools. Established in Portland in 1962, it is the law school of the University of Maine System, and it shares a campus with the University of Southern Maine in Portland.

Cumberland Legal Aid Clinic

The Cumberland Legal Aid Clinic is one of the oldest clinical programs of its kind in the nation. Established in 1970, the Clinic provides free legal aid to more than 600 low-income individuals and families every year. It is a defining program of Maine Law, providing practical skills training for students, and helping to fulfill the school’s commitment to social justice. All legal services are provided by law students who are enrolled in one of four clinical courses: General Practice, Prisoner Assistance, Juvenile Justice, and Refugee and Human Rights. Students represent real clients in real cases. From intake meetings to filing court documents to standing up before a judge, student attorneys handle all aspects of client relations and case management, under the close supervision of faculty who are leaders in their fields.

Externship Program

In the Externship Program, students work for a semester in a government agency, business, or nonprofit organization for academic credit. This program gives students an opportunity to develop essential professional skills while making valuable contacts throughout Maine and, in some cases, around the country. Students can be placed in externship positions that are offered regularly, such as with the U.S. Attorney’s Office, Pine Tree Legal Assistance, Conservation Law Foundation and many others. Or they can “make their own” externships at any number of agencies or institutions. Students have worked alongside seasoned lawyers in cities and towns throughout Maine, as well as distant locales such as Washington, D.C., and Alaska.

Center for Oceans and Coastal Law

The Center for Oceans and Coastal Law is devoted to research and education in ocean law and policy. It supports the marine law curriculum and the Ocean and Coastal Law Journal. The Center's current research areas include law of the sea, maritime security, comparative marine law, international maritime boundary delimitation, maritime ports, ocean and coastal resources and their management, and the marine environment of...
the Gulf of Maine. The Center for Oceans and Coastal Law has active ties and research collaborations with leading universities and maritime institutes around the world.
Research Service Center

Pre-Award Services

The Research Service Center (RSC) is responsible for encouraging externally funded initiatives in support of program-related activities of academic, research and development, and administrative units, and it serves as the major resource to faculty and staff who wish to pursue such projects. The Service Center maintains information on and promotes awareness of funding opportunities, assists in refining project ideas and matching them with a potential sponsor's priorities and requirements, assists in the preparation of grant applications, and serves as the final approving authority for such applications.

In addition to having access to many online funding sources, the RSC maintains a subscription to an online funding opportunities database via InfoEd Global's SPIN database. This is accessible to all faculty and staff and can be invaluable to individuals seeking to do their own searches.

Post-Award Services

The RSC provides financial management assistance and administrative support to principal investigators and project directors after an award is received. Services include: review and approval of all award documents, preparation and submission of financial reports, requests for reimbursement, budget revisions, amendments, etc. These services are a collaborative effort on the part of RSC staff and project staff. Services continue through the termination date, ending with the submission of the final program and final financial reports.

Increasingly, governmental agencies are turning to RSC to provide management and approval for post-award modifications. In many cases, such requests can be approved and processed by RSC with proper notification to the sponsor.

Additional information is available online:  http://usm.maine.edu/rsc
Annual Security Report & Annual Fire Safety Report

The Annual Security Report and Annual Fire Safety Report are intended to provide you with essential information regarding USM's police-related programs, services, policies, and statistics about the occurrence of crime on campus. It is provided to meet the requirements of the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act of 1998 and its amendments included in the 2013 reauthorization of the Violence Against Women Act. This report has been prepared by the Dean of Students with assistance and information provided by USM Public Safety and the Police Departments from the towns of Gorham, Freeport, Lewiston, and Portland. Public Safety in coordination with the Dean of Students Office is responsible for compiling the crime statistics and contacting appropriate law enforcement agencies with jurisdiction over off-campus properties to collect annual statistics. The Dean of Students office is responsible for updating the campus safety and security information and for compiling illegal liquor, drugs, and/or weapons disciplinary referrals.

Each fall, email notification is made to all employees and enrolled students providing the web link for this report.

Questions about this report or to obtain a paper copy please contact the Dean of Students Office at (207) 780-5242.
Administration of the University of Southern Maine

Administrative Organization as of August 1, 2017:

President: Glenn Cummings, Masterton Hall, Portland, tel: 780-4480
Provost and Vice President for Academic Affairs: Jeannine Diddle Uzzi, 124 Wishcamper, Portland, tel: 780-4485
Interim Chief Business Officer: Buster Neel, 724 Law Building, Portland, tel: 780-4484
Vice President for Enrollment Management & Student Affairs: Nancy Griffin, 124 Wishcamper, Portland, tel: 780-4770
Vice President for University Advancement: George Campbell, 722 Law Building, Portland, tel: 780-4708
Vice President, Human Resources: Natalie Jones, Exeter Street, Portland, tel: 228-8304
Executive Director of Public Affairs: Robert Stein, Masterton Hall, Portland, tel: 780-4200

Administrative Offices Serving Students

Academic Assessment
Susan King, director

Admissions (Undergraduate and Graduate)
Andrew King, director

Advising and Academic Resources
Elizabeth M. Higgins, director

Auxiliary Services
Jeanne Paquette, director

Arts, Humanities and Social Sciences, College of
Adam Tuchinsky, dean

Athletics
Al Bean, director

Campus Housing
Christina Lowery Smith, coordinator

Community Engagement and Career Development
Susan McWilliams, director

Community Standards, Academic Integrity, & Mediation
TBD, director

Dean of Students
Rodney Mondor, dean of students

Disability Services Center
Joanne Benica, director

English for Speakers of Other Languages (ESOL)
Andrea Vasquez, director

Facilities Management
John Souther, executive director

Graduate Studies
Mary Sloan, director

Honors Program
Rebecca Nisetch, director
Institutional Research
Patricia Davis, senior associate

International Programs/Study Abroad
Kimberly Sinclair, director

Jobs for Maine's Graduates (JMG)
Randy Inosencio, college and career transition specialist

Law, University of Maine School of
Danielle Conway, dean

Law Library, University of Maine School of Law
Christine I. Hepler, interim director

Learning Support
Paul Dexter, director

Lewiston–Auburn College
Joyce Gibson, dean

Libraries
David Nutty, director

Management and Human Service, College of
Joanne Williams, dean

Multicultural Student Affairs
Anila Karunakar, coordinator

Orientation/Transitional Programs
TBD, director

Osher Lifelong Learning Institute
Susan Morrow, assistant director

Prior Learning Assessment
Ashley Collins, director

Registration and Scheduling Services
Karin Pires, registrar/director

Russell Scholars Program
TBD, director

Science, Technology and Health, College of
James Graves, dean

Student Activities and Involvement/Clubs and Organizations
Alex Carrier, coordinator

Student Financial Information Systems
Marthina S. Berry, director

Student Financial Services
Keith DuBois, director

Sullivan Recreation Complex and Intramurals
Kevin Normand, manager

Title IX
Sarah Holmes, assistant dean of students
EMERITI


- **Amoroso, Henry C., Jr.** (1982-2010) St. Michael's College, B.A., 1966; Goucher College, M.Ed., 1966; University of Wisconsin, Ph.D., 1978; Associate Professor Emeritus of Education*


- **Andrews, Samuel G.** (1966-2007) Babson College, B.S., 1964; University of Maine, M.S., 1966; Chief Financial Officer Emeritus; Associate Professor of Business Administration

- **Armentrout, Charles E.** (1960-1997) University of Maine, B.A., 1955; Wesleyan University, M.A., 1958; Columbia University, M.S., 1970; Associate Professor Emeritus of Physics


- **Ayers, George H.** (1959-1991) University of Maine, B.A., 1951; The Ohio State University, M.A., 1959; Associate Professor Emeritus of Geosciences


- **Barringer, Richard E.** (1988-2011) Harvard University, A.B., 1959; University of Massachusetts, M.A., 1963; Massachusetts Institute of Technology, Ph.D., 1968; Professor Emeritus of Community Planning and Development, Muskie School of Public Service


- **Black, Roxie** (1997-2016) Boston University, B.S., 1968; University of Southern Maine, M.S., 1989; Lesley University, Ph.D., 2002; Professor Emerita of Occupational Therapy


- **Burson, Janet Z.** (1978-2005) Syracuse University, B.S., 1964; Oregon State University, M.S., 1975; Vanderbilt University, Ed.D., 1990; Associate Professor Emerita of Nutrition
• Caffentzis, Constantine G. (1987-2013) City College of the University of New York, B.A., 1966; Princeton University, Ph.D., 1978; Professor Emeritus of Philosophy
• Chabot, Maurice J. (1965-2011) University of Maine, B.A., 1961; Bowdoin College, M.A., 1965; Associate Professor Emeritus of Mathematics
• Chandler, Joseph (1968) Bowdoin College, A.B., 1942; University of Maine, M.B.A., 1967; University of New Hampshire, M.A., 1971; Associate Professor Emeritus of Business Administration
• Childs, Janis C. (1994-2013) University of Delaware School of Nursing, BSN, 1971; University of Virginia School of Nursing, PNP, 1977; University of Virginia School of Nursing, MSN, 1980; George Mason University, Ph.D., 1994; Professor Emerita of Nursing
• Coakley, Robert W. (1984-2014) The Ohio State University, B.S., 1965; Dartmouth College, M.A., 1968; University of Vermont, Ph.D., 1974; Associate Professor Emeritus of Physics
• Coogan, William H., III (1972-2005) Boston College, B.A., 1963; Rutgers University, M.A., 1964; University of North Carolina, Ph.D., 1971; University of Maine School of Law, J.D., 1988; Associate Professor Emeritus of Political Science
• Costello, Richard A. (1953-1990) University of Alabama, B.S., 1952; University of Illinois, M.S., 1953; Springfield College, D.P.E., 1965; Director Emeritus of Intercollegiate Athletics*
• Cowart, Wayne (1989-2017) Florida State University, B.A., 1967; Queens College, City University of New York, M.A., 1975; Queens College, City University of New York, Ph.D., 1983; Professor Emeritus of Linguistics
• Davis, Carol Lynn (1982-2011) University of Maine, B.A., 1968, M.S., 1977, Ph.D., 1983; Associate Professor Emerita of Education
• Delogu, Orlando E. (1966-2006) University of Utah, B.S., 1960; University of Wisconsin, M.S., 1963, J.D., 1966; Professor Emeritus of Law
• Deprez, Luisa S. (1976-2015) Keuka College, B.A., 1970; Rutgers University, M.S.W., 1971; Brandeis University, Ph.D., 1995; Professor Emerita of Sociology
• Dickey, Edna F. (1965-1977) University of New Hampshire, B.A., 1933; M.A., 1936; Associate Professor Emerita of Psychology
• Dietrich, Craig (1968-1997) University of Chicago, A.B., 1961, Ph.D., 1970; Professor Emeritus of History
• Druker, Marvin J. (1987-2013) University of Michigan, B.A., 1966; University of Wisconsin, M.A., 1968, Ph.D., 1974; Professor Emeritus of Leadership and Organizational Studies
• Durgin, Frank A., Jr. (1964-1997) Tufts University, B.A., 1949; University of Toulouse, License en Droit, 1954; Docteur en Droit, 1956; Professor Emeritus of Economics
• Early, David J. (1989-2015); Northeastern University, B.S., 1973; Rensselaer Polytechnic Institute, M.S., 1976; Lecturer Emeritus in Technology
History

- Elliott, Elizabeth K. (1990-2015) Barnard College, AB, 1973; Columbia University School of Nursing, BS, 1976; Simmons College, MSANP, 1981; Clinical Instructor and Lecturer Emerita in Nursing
- Foster, Carolyn N. (1966-2001) Douglass College (Rutgers), A.B., 1958; Purdue University, M.S., 1961; Bowdoin College, A.M., 1966; Associate Professor Emerita of Mathematics
- Fournier, Margaret A. (1976) Fitchburg State College, B.S.N., 1972; Boston University, M.S.N., 1976; Associate Professor Emerita of Nursing
- French, Robert J. (1969-1995) Dartmouth College, A.B., 1957; Northeastern University, M.Ed., 1967; Clark University, M.A., 1972; Associate Professor Emeritus of Geography*
- Hartley, David (1994-2014) University of Minnesota, B.S., 1972; M.H.A., 1987; Ph.D., 1993; Research Professor Emeritus, Health Policy; Muskie School of Public Service
- Healy, Phyllis Foster (1980-2011) Hunter College, B.S.N., 1971; University of California at San Francisco, M.S.N., 1972; University of Texas at Austin, Ph.D., 1990; Associate Professor Emerita of Nursing
Professor Emeritus of Geography


- **Johnson, Rosemary** (1987-2014) McGill University, B.N., 1972; University of Rochester, M.S., 1976; University of Colorado, Ph.D., 1987; Associate Professor Emerita of Nursing


- **Khoury, Colleen** (1985-2009) Colby College, B.A., 1964; Illinois Institute of Technology/Chicago-Kent College of Law, J.D., 1975; Professor Emerita of Law, University of Maine School of Law

- **Kilbreth, Elizabeth H.** (1985-2012) B.A., 1973; Johns Hopkins University, M.H.S., 1979; Brandeis University, Ph.D., 1996; Associate Research Professor Emerita, Muskie School of Public Service


- **Kirk, Albert** (1977-2007) Tampa University, B.A, 1963; Northern Illinois University, M.S., 1967; Associate Professor Emeritus of Technology

- **Lapping, Mark B.** (1994-2015) SUNY New Paltz, B.S., 1967; Emory University, Ph.D., 1972; Distinguished Professor and Professor Emeritus of Public Policy and Management

- **Lawson, Marjorie T.** (1994-2013) Theil College, BA, 1969; University of Pittsburgh School of Nursing, BS, 1970; Pennsylvania State School of Nursing, MSN, 1976; University of Rochester School of Nursing, Ph.D., 1995; Associate Professor Emerita of Nursing


- **MacDonald, Stephen A.** (1970-2005) Gorham State College, B.S., 1963; University of Maine, M.A., 1964; Case Western Reserve University, Ph.D., 1972; Associate Professor Emeritus of Mathematics

- **MacPherson, Kathleen I.** (1974-2000) Boston University, B.S., 1963; M.A., 1965; M.S., 1974; Brandeis University, Ph.D., 1986; Professor Emerita of Nursing

- **Maine, Richard J.** (1971-2010) Lake Forest College, B.A., 1967; Brown University, Ph.D., 1972; Professor Emeritus of Political Science


- **Mazurkiewicz, Michael, Jr.** (1969-2015) Rutgers University, B.S., 1961, M.S., 1964; University of Connecticut, Ph.D., 1970; Professor Emeritus of Biological Sciences


- **Monsen, S. Henry** (1969-1996) Florida State University, B.A., 1957; University of California at Los Angeles, M.A., 1959; University of Texas, Ph.D., 1967; Professor Emeritus of Sociology*


• Neuberger, Harold T. (1957-1991) Iowa-Wesleyan College, B.S., 1952; University of New Mexico, M.S., 1953; Boston University, E.D., 1964; Professor Emeritus of Science Education


• Normanandeau, Jeanne G. (1968-1997) Boston College, B.S., 1964, M.S., 1967; Boston University, Ed.D., 1988; Associate Professor Emerita of Nursing


• Padula, Alfred L. (1972-1998) Holy Cross College, B.S., 1957; Universidad de las Americas, M.A., 1961; University of New Mexico, Ph.D., 1975; Professor Emeritus of History

• Peake-Godin, Helen (1987-2014) Spalding College, BSN, 1969; Emory University, MSN, 1979; Boston University, Ph.D., 1996; Associate Professor Emerita of Nursing

• Pollock, Stephen G. (1979-2014) Bucknell University, A.B., 1968; University of Maine, M.S., 1972; Rutgers University, Ph.D., 1975; Professor Emeritus of Geology


• Pryor, Charlotte (1999-2014) University of Maryland, B.A., 1972; West Virginia University, M.S., 1977; Pennsylvania State University, Ph.D., 1996; Associate Professor Emerita of Accounting


• Rhodes, Gale (1985-2008) North Carolina State University, B.S., 1965; University of North Carolina, Ph.D., 1971; Professor Emerita of Chemistry


• Rich, Barbara (1974-2014) University of Maine, B.A., 1968; Columbia University, M.S.W., 1970; Associate Professor Emerita of Social Work

• Richeson, Nancy (2000-2014) Mankato State University, B.S., 1980; University of Nebraska, M.A., 1986; Ph.D., 2001; Professor Emerita of Recreation and Leisure Studies

• Rieser, Alison (1980-2007) Cornell University, B.S., 1973; George Washington University, J.D., 1976; Yale Law School, LL.M., 1990; Professor Emerita of Law, University of Maine School of Law


• Robinson, Betty D. (1988-2014) Colby College, B.A., 1973; University of Maryland, M.A., 1976; Boston University, Ph.D., 1983; Associate Professor Emerita of Organizational Studies


• Rogers, Paul C. (1965-1992) College of the Holy Cross, B.N.S., 1945; Boston University, M.A., 1948; Professor Emeritus of Mathematics


• Rosenthal, Charlotte (1987-2016) Cornell University, B.A., 1964; University of Chicago, M.A., 1967; Stanford University, Ph.D., 1979; Professor Emerita of Women & Gender Studies


• Saldanha, Estelita L. (1966-1985) University of Lisbon, B.A., 1943; University of Nebraska, B.S., 1946, M.A., 1947; Cornell University, Ph.D., 1950; Professor Emerita of Psychology

• Schaible, Robert M. (1986-2011) Furman University, B.A., 1965; University of Tennessee, M.A., 1966, Ph.D., 1971; Professor Emeritus of Arts and Humanities

• Schwansauer, Francis (1965-2006) Technical University of Stuttgart, Dr. Phil., 1959; Professor Emeritus of Philosophy

of Center for Educational Policy, Applied Research and Evaluation

- **Smith, James W.** (1986-2017) Pennsylvania State University, B.S., 1961; Pennsylvania State University, M.S., 1963; Pennsylvania State University, Ph.D., 1967; Associate Professor Emeritus of Engineering
- **Spross, Judith A.** (2003-2015) Villanova University, B.S.N., 1974; Medical College of Virginia, M.S., 1977; Boston College, Ph.D., 1999; Professor Emerita of Nursing
- **Stebbins, Richard G.** (1983-2007) Wesleyan University, B.A., 1965; Texas A & M University, Ph.D., 1970; Professor Emeritus of Chemistry
- **Steele, William P.** (1967-2016) University of Maine, B.S.Ed., 1964; University of Maine, M.A., 1967; Professor Emeritus of Theatre
- **Steinman, Richard** (1966-1987) University of Missouri, B.A., 1949; Columbia University, M.S., 1952; Brandeis University, Ph.D., 1968; Professor Emeritus of Social Work
- **Stevens, Reif D.** (1985-2013) Suffolk University, B.S., 1971; University of Maine, M.Ed., 1973; University of Georgia, Ph.D., 1981; Associate Professor Emeritus of Education
- **Tiffany, Julia C.** (1981-1999) University of Washington, B.S., 1962; Rutgers, The State University, M.S., 1967; Vanderbilt University, Ed.D., 1990; Associate Professor Emerita of Nursing
- **Tizin, Judy** (1972-2010) University of Illinois, B.A., 1965; University of California, M.A., 1969, Ph.D., 1975; Associate Professor Emerita of Anthropology
- **Tukey, Geraldine M.** (1970-2000) Mercy College of Detroit, B.S.N., 1957; Boston University, M.S., 1964; Associate Professor Emerita of Nursing
- **VanderLinden, David** (1999-2014) University of North Carolina, B.A., 1971; Colorado State University, M.B.A., 1981; Kent State University, Ph.D., 1998; Associate Professor Emeritus of Accounting and Finance
- **Ventresco, Fiorello B.** (1966-1997) Boston University, A.B., 1959; University of Michigan, M.A., 1961; Associate Professor Emeritus of History
- **Vines, Susan W.** (1991-2003) Keuka College, B.S.N., 1966; Boston University, M.S.N., 1971; Case Western Reserve University, Ph.D., 1987; Associate Dean Emerita for Research and Associate Professor Emerita of Nursing
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