

University of Maine at Machias

2007 – 2009 Catalog



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A member of the University of Maine System

ACCREDITATION

The University of Maine at Machias is accredited by the New England Association of Schools and Colleges, Inc., a non-governmental, nationally recognized organization whose affiliated institutions include elementary schools through collegiate institutions offering post-graduate instruction.

Inquiries regarding the status of an institution's accreditation should be directed to the administrative staff of the university or to the New England Association of Schools and Colleges, 209 Burlington Road, Suite 201, Bedford, MA 01730-1433, 718-271-0022.

EQUAL OPPORTUNITY POLICY

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Questions and complaints about discrimination in any area of the University should be directed to Equal Employment Opportunity Officer, University of Maine at Machias, 9 O'Brien Avenue, Machias, ME 04654, telephone (207) 255-1290.

Inquiries or complaints about discrimination in employment or education may also be referred to the Maine Human Rights Commission. Inquiries or complaints about discrimination in employment may be referred to the U.S. Equal Employment Opportunity Commission.

Inquiries about the University's compliance with Title VI of the Civil Rights Act of 1964, which prohibits discrimination on the basis of race, color, and national origin; Section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability; Title IX of the Education Amendments of 1972, which prohibits discrimination on the basis of sex; and the Age Discrimination Act of 1975, which prohibits discrimination on the basis of age, may also be referred to the U.S. Department of Education, Office for Civil Rights (OCR), Boston, MA 02110-1491, telephone (617) 289-0111 (voice), (877) 521-2172 (TTY/TDD) or e-mail OCR.Boston@ed.gov. Generally, an individual may also file a complaint with OCR within 180 days of alleged discrimination.

RIGHT TO REVISE

The University of Maine at Machias reserves the right to revise, amend or change items set forth in this catalog without prior notice. Readers should inquire as to whether any revisions, amendments or changes to contents have been made since publication.

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***General
Information***

GENERAL INFORMATION

The University of Maine at Machias, one of seven independent units of the University of Maine System, is a regionally accredited institution awarding both associate and baccalaureate degrees. Established in 1909, UMM is the easternmost university campus in the United States. It is located at the top of Machias Bay, the site of the first naval battle of the Revolutionary War, in June 1775, when local patriots captured the British warship *Margaretta*. The area's bountiful natural resources, its Yankee traditions, and its rich environmental, recreational, cultural, and education traditions inform the campus.

All aspects of the University's life and mission are greatly influenced by the proximity of the campus to the ocean and the surrounding forests, lakes, and streams. The unique nature of this location fosters sensitivity toward the natural environment and offers unusual academic field experiences for students. The use of the area's natural resources in its academic and student life programs provides UMM students with a distinctive education.

Characterized by warmth and personal concern for each individual, UMM emphasizes the importance of relationships among people and connections among areas of knowledge. Its goal is to help students develop the qualities necessary for self-confidence, informed judgment, effective communication, cooperative problem solving, and ethical behavior. Individuals develop the additional abilities needed for expanding their horizons, responding to change, learning throughout life, and reaching the potential required for personal success, leadership, and service.

UMM conducts applied research relevant to its instructional role and the needs of the region, and provides public service programs, cultural opportunities, consulting services, and educational leadership for the area. While as a regional university, UMM carries a primary responsibility for serving the educational, cultural, and public needs of this area of the State, its high quality educational programs, excellent faculty, and special location attract students from throughout Maine, the United States, and the world.

MISSION STATEMENT

The mission of the University of Maine at Machias is closely linked to its unique location on the rugged Atlantic Ocean coast, among forests, glacial lakes, and abundant aquatic and terrestrial wildlife. This Downeast location, with its rich human and natural resources, provides a unique living and learning environment for our students. Through its liberal arts core and distinctive

baccalaureate programs, the University prepares students for life-long intellectual growth, individual success, leadership in a global society, and the advancement of a sustainable environment.

The University's applied research and public services contribute to the improvement of the quality of life and economic development in Downeast Maine. The University of Maine at Machias collaborates with each of the other campuses in the University of Maine System to fulfill the needs of public higher education in the State of Maine.

ARTS AND CULTURAL AFFAIRS

The University of Maine at Machias is the cultural center of Washington County and provides a variety of exciting opportunities in the arts for students, faculty, staff, and the community. The University offers courses and workshops in art, music, dance, drama, poetry, and literature. Students may participate in campus art shows, recitals, publications, concerts, and drama productions. Guest lectures and seminars on the arts are held throughout the academic year.

The Performing Arts Center, a 364-seat auditorium, is home to many campus and community meetings, seminars, festivals, and performances.

The Art Galleries house the permanent collection of the John C. and Norma B. Marin Foundation, which includes the work of John Marin and other prominent 20th-century artists. Throughout the year, additional exhibits of visual and cultural importance are brought to the campus to help continue the arts education of the community.

The Theatre Program presents a constantly changing repertoire of theater offerings throughout the academic year. From the Readers' Theater Series to student-directed projects to major musical productions, UMM Theater is open to all members of the campus and local communities. Auditions are held regularly throughout the year and all are welcome to try out.

ALUMNI ASSOCIATION

The Alumni Association of the University of Maine at Machias is an active body of graduates who render great service and loyalty to their *alma mater*.

An Executive Board, elected annually, governs the Association, whose members span various periods of the institution's history. The objectives of the Alumni Association are to contribute to the growth and prosperity of UMM, to establish and maintain a satisfactory relationship between the alumni and the University, and to promote a well-organized, active membership.

The Alumni Association maintains a close communications network with its members. Traditional activities include a spring banquet honoring the senior

class, an annual meeting in August highlighted by the Mac Sennett Lobster Feed, Homecoming activities in October, and the awarding of several scholarships each year to deserving students to help finance their education. The Alumni Association hosts social gatherings around the state intended to bring news of the University directly to the graduates.

INFORMATION TECHNOLOGY AND COMPUTING

The Information Technology department provides systems and services to enhance the quality and delivery of instruction. UMM IT also provides students with the experience and skills to develop computer confidence in their areas of study as well as in their roles as educated members of modern society. A wide variety of software resources are available for general applications and discipline-specific use, and computer usage is integrated across the curriculum.

Computer application courses offer instruction in spreadsheets, databases, word processing and web page design.

In addition, students have access to the resources for personal computing, including dormitory hook-ups to the Internet, free campus e-mail, and a help desk.

SPECIAL PROGRAMS

The Office of Special Programs supports a variety of workshops, conferences and institutes year-round on campus and off, during the regular academic year and during the summer. For further information, contact the Coordinator of Education and Community Outreach at 207-255-1289 or naida@maine.edu.

DISTANCE EDUCATION

Distance education at UMM includes instruction by interactive television (ITV), on-line delivery, and compressed video teleconferencing. These methods of instructional delivery supplement traditional course offerings.

UMM faculty broadcast selected courses statewide from the University's television studio facility in Torrey Hall. Students at other sites participate in class via toll-free phone lines in the classroom. Student interaction with television instructors is also aided by electronic technology including fax, e-mail and computer conferencing, as well as mail and telephone.

On-line courses do not require regular classroom attendance. Students complete course requirements at home using a range of technologies, including web-based course tools, videotape, and telephone.

Two-way video conferencing makes it possible for area residents to participate in statewide public hearings, training sessions, and informational programs. The compressed video system is a two-way audio/video system with classrooms at eleven University of Maine System locations. Compressed video is often used for seminar-type and upper-level courses (graduate).

CAMPUS BUILDINGS

Powers Hall — A prominent area landmark, Powers Hall overlooks the village of Machias and the beautiful Machias River gorge, waterfalls and tidal basin area. It houses the Admissions, Business Office, Financial Aid, First Stop and the Registrar's Offices; faculty, and staff offices; classrooms; two art galleries; and the 364-seat Performing Arts Center.

The O'Brien House, the traditional residence for the University president and family, is named after its former owner and architect, Jeremiah O'Brien, who served in the Maine Legislature during the 1800s. This fine example of an early 19th-century home is maintained in the decor of the period.

Merrill Library is a modern, comfortable facility designed to accommodate the research needs and recreational reading of the campus community. The main library, open for extensive hours while classes are in session, offers bibliographic access to the literature through ten computers with printers. A specialized reading room, equipped with five computers and a networked printer, and offering academic software and Internet access, is available twenty-four hours a day when school is in session. The newly opened Portal offers access to modern computer workstations, library databases, the Internet, academic software, a laser printer, audiovisual listening stations, and comfortable seating during the hours the library is open. Finally, a workstation designed to serve handicapped students is also available for campus use.

With its collections and services, the library is a major informational resource center for UMM students, faculty, staff, and the local community. Through its extensive and varied collections, which include books, journals, newspapers, electronic databases, microforms, video and audiotapes, art prints, and maps, the library strives to promote the ideals of creative inquiry, research, and lifelong learning. In addition to the more than 90,000 items available on site, the campus community is afforded access to the more than two million items at the other libraries of the University of Maine System; to a substantial array of full-text databases; to information about library resources in all fifty states and many foreign countries; and to the extensive resources of the Internet.

Torrey Hall, the central classroom building, contains faculty offices, the Student Support Center, the Interactive Television Center, the Career Development Office, the Information Technology Department and computer labs, the Counseling Center, Special Services (disabilities and accommodations), the Advising Center and Study Center.

The Science Building contains laboratories for biology, chemistry, GIS, marine biology, and physics; a 100-seat lecture hall; classrooms; a conference room; and faculty offices. A variety of aquaria housing living organisms may be found in this building. The two largest aquaria contain marine organisms from the neighboring Gulf of Maine. The Science Building is also home to UMM's aquaculture facility, a photography darkroom, a teaching herbarium, and a greenhouse.

The Center for Lifelong Learning and Frederic A. Reynolds Athletic and Education Center is home to UMM's perennially competitive sports teams, the Clippers. This facility, the largest and best-equipped of its kind in eastern Maine, contains a full-sized gymnasium, a competition-size swimming pool, fully equipped weight and exercise rooms, a smaller gym, handball courts, locker and shower rooms, whirlpool and training rooms, classrooms and offices for the coaching staff and some of the faculty. Over thirty fitness classes per week are offered to university and community members through this facility.

The George Simpson Murdock Bookstore, located in the Center for Lifelong Learning, is available for the convenience of students, faculty, staff and area residents. In addition to textbooks, other reading materials and classroom supplies, the bookstore carries a variety of clothing and novelty items. It operates from 8:30 a.m. to 4:00 p.m. Monday through Friday on a regular basis and has later hours during evening class registration.

Kimball Hall houses offices for faculty, professional staff, student organizations, the Student Center, and the Physical Facilities Office. The Student Center, located on the first floor, is the meeting place of the campus, providing a setting where all segments of the campus community may relax and feel at home. A variety of activities from small meetings to a series of Thursday and Saturday night movies and Friday evening shows and other social events can be accommodated in Portside. The Poopdeck, includes ping-pong and pool tables, music/TV rooms, and video games, as well as quiet study areas. The Student Activities Office is located on the ground floor of this building. The Galley snack bar is a popular campus eatery offering pizza, salads, subs, burgers, ice cream, beverages, snacks and more. During the week, the Galley is open for breakfast, lunch, and dinner. On Saturdays and Sundays it is open for dinner.

Dorward and Sennett, UMM's two residence halls, are convenient and safe places to live, well supervised by university staff. A full-time, live-in professional Resident Director in each building supervises a staff of resident assistants. Each floor has a Student Resident Assistant to assist students in a variety of ways. Students have the opportunity to get involved by becoming a member of Residence Hall Council, made up of floor representatives who serve to facilitate communications and are responsible for governing the residence halls.

Each residence hall has a security access swipe card system for safety and convenience. This system allows access to the front doors and rooms of the residence halls, plus the twenty-four-hour reading room in the Library.

Rooms are equipped with single beds, 36" x 80" mattresses, desks, dressers, wardrobes, mirrors, chairs, bookcases, and draperies. Each residence hall also has a laundry room with card- and coin-operated washers and dryers, lounges with color televisions, fireplaces, recreation rooms, and small kitchens.

Each room is wired for two Internet jacks. Instructions for connecting to the RESNET campus network are issued by the Residence Life Staff when students move in. Each room also has two phone jacks, so students have their own personal phone number, issued after they move in, and voicemail. Students should bring a phone set and a pre-paid calling card for long distance calls.

Kilburn Commons, a modern dining facility serving the needs of students, faculty, and staff, is also used regularly for banquets and other campus and community activities.

The Campus Support Building houses all the grounds equipment and includes a mechanical shop with equipment storage, carpenter shop, and service area for vehicles in the motor pool.

*Student
Life*

STUDENT LIFE

Student Life focuses on providing services, programs, and assistance to students in the University of Maine at Machias campus community. The staff and students working in Student Life strive to create a pleasant, comfortable atmosphere in which students can pursue educational opportunities at UMM.

ORIENTATION

The goal of New Student Orientation is to assist students in becoming familiar with the UMM campus, faculty, and staff. Through orientation, students learn to use the resources at UMM so that the undergraduate experience will be rich and rewarding.

STUDENT CONDUCT CODE AND REGULATIONS

Students who attend UMM are expected to conduct themselves and their affairs with regard for the rights of others. All students who register for courses with UMM may be subject to disciplinary action by the University according to the Student Conduct Code. This document, used by all campuses in the University of Maine System, allows each campus to take action appropriate to the violation. In addition, students in the residence halls are expected to comply with the regulations stated in the Residence Hall Contract Terms and Agreement and those established by residence hall governance. These regulations, as well as the Student Conduct Code, are found in the Student Guide, which is available in the Campus Life section of the UMM web site.

MOTOR VEHICLE REGISTRATION

Students wishing to operate motor vehicles on campus are required to register their vehicles at the Physical Facilities Office or the First Stop. A copy of the Motor Vehicle Rules and Regulations containing guidelines for vehicle use on campus is given to each registered student.

STUDENT ORGANIZATIONS AND ACTIVITIES

The University of Maine at Machias recognizes that a wide range of student organizations makes substantial contributions to the social and academic life on campus, and that participation in clubs and organizations is an important and valuable factor in a student's education. These organizations offer a well-rounded and balanced program of activities consistent with the interests and

needs of students. Each registered student organization is required to have a faculty or staff advisor and a written constitution. Following are brief descriptions of some student clubs and organizations:

100% Society — sponsors programs that promote awareness, understanding, and acceptance of the diversity issues of such groups as gay, lesbian, bisexual, and transgendered persons.

Binnacle — a magazine of the arts put together by students and composed of the original works of UMM students, faculty, and staff.

Greek Letter Organizations — recognized by the University to meet the needs of students for social fellowship and belonging. *Sororities*: Kappa Alpha Kappa, Phi Tau Phi, Kappa Eta, and Epsilon Sigma Alpha. *Fraternities*: Kappa Delta Phi, Kappa Mu Alpha, Alpha Phi Omega, and Sigma Chi Lambda.

Improvisation Club — provides spontaneous music at coffeehouses, athletic events, care facilities, schools, concerts, time capsules, parades and other celebratory functions. No musical experience is necessary, just a love of music and fun.

International Club — a mix of UMM's international students, other students, and members of the local community. The club sponsors special multicultural events.

Intramural Board — offers intramural sports for men and women.

MRPASS — a student section of the Maine Recreation and Parks Association whose purpose is to develop and foster student interest in recreation, parks, and conservation.

Newman Club — meets the spiritual needs of UMM students through various educational, interpersonal, social, cultural, and service activities.

Outing Club — provides experience and training in outdoor activities of general interest.

PEAK Peer Leaders — a student group for Prevention, Education, Alternatives, and Knowledge, which promotes responsible behavior and wellness by sponsoring several quality chemical-free events each year.

Science Club — sponsors field trips and science-oriented activities.

Student Activity Board (SAB) — an all-student organization that plans Homecoming, Winter Carnival, and Spring Weekend, in addition to other campus events such as dances, outings, movies, and bingo.

Student Education Association (SEA) — enhances student awareness of the teaching profession. Members have opportunities for social and professional growth through participation in workshops, conferences, and projects.

Student Senate — UMM's student government expresses student concerns to the administration regarding academic and student affairs, and works with the

administration to help formulate policies regarding students.

WUMM — a campus radio station with a web component for streaming is managed and staffed by students. Faculty and community members are also involved.

ATHLETICS AND RECREATION

Intercollegiate athletics, physical education, lifetime fitness, and intramurals are an integral part of the University's mission. UMM believes in the values of competition and fair play developed through its sports program. The University offers intramural, recreational, and intercollegiate sports for both men and women.

UMM is a member of the National Association of Intercollegiate Athletics (NAIA) Division II and competes in the Sunrise Conference. Men's varsity teams compete in soccer, cross-country, and basketball; women's varsity teams compete in volleyball, soccer, cross-country, and basketball.

Men's and women's intramurals are organized through the Intramural Department. Sports include basketball, softball, tennis, badminton, flag football, volleyball, and racquetball.

The Center for Lifelong Learning (CLL) offers a wide variety of fitness and wellness programs free to UMM students. CLL programs include aerobics, swim lessons, cardio kickboxing, dance lessons, weight lifting, martial arts, water exercise, and yoga. The CLL also includes an Olympic-sized swimming pool, extensive fitness center, and multipurpose gymnasium.

STUDENT SUPPORT CENTER

The Student Support Center, located in Torrey Hall, is the central location for the Student Support Center, the Career Development Office, the Counseling Center, Special Services (disabilities and accommodations), the Advising Center and Study Center.

SPECIAL SERVICES COORDINATOR

The Coordinator provides programs, services, and resources that enhance academic achievement as well as providing individualized assistance with academic assessment, personal learning strategies, study skills development, and writing.

Student Accommodation Services — In compliance with the ADA, the University of Maine at Machias provides reasonable accommodations for students with documented disabilities. The Special Services Coordinator works with students that may require accommodations for the classroom or housing. Located in the Student Support Center in 29B Torrey Hall, the Special Services Coordinator works with students on an individual basis providing: screening for accommodation

services, documentation review, accommodation determinations, academic counseling, advocacy and support, and consultation and referral services. Documented disabilities include physical, psychiatric, and learning disability needs. All requests for classroom and housing accommodation services must be processed through the Special Services Coordinator. The office is open Monday through Friday from 8:00 a.m. to 5:00 p.m. Please call 255-1228 to make an appointment.

Testing Program — The University of Maine at Machias provides a variety of assessment services for UMM students and the wider community. The CLEP (College-Level Examination Program) and the MAT (Miller Analogy Test) are offered on an as-needed basis, Monday through Friday, between 8:00 a.m. and 3:30 p.m. Please call the Testing Center at 255-1228 for further information and to make an appointment. The Praxis I and Praxis II are offered two times per year on one Saturday in November and one Saturday in March. Students must pre-register online by the deadline (typically one month prior to the testing date): www.ets.org/praxis. High school, home-school, and independent study students may also test for BYU (Brigham Young University) courses at the University of Maine at Machias Testing Center. Please call 255-1228 for further information.

COUNSELING CENTER

It is very common for students at some time during their college years to feel the need to talk over personal concerns with someone other than a friend or roommate. The counselor offers assistance to students coping with situational crises, making the transition to the university environment, and solving emotional problems. The Counseling Center provides free counseling to any student enrolled in six or more credits at UMM with the assurance of complete confidentiality.

CAREER DEVELOPMENT OFFICE

The Office of Career Development is committed to providing quality career services to students, alumni, and employers through a variety of programs and opportunities. The office strives to prepare students for life after college. The comprehensive career service program offered by the Office of Career Development includes assisting students with career decisions, developing career plans, and establishing contacts with corporations and agencies to ensure placement opportunities.

This office also works with faculty and students to establish and manage Cooperative Education opportunities and coordinate programs designed to support international students.

STUDY CENTER

The Study Center is staffed with trained student peer tutors to assist with writing projects and other class

assignments. Tutors are available for a wide variety of subjects ranging from accounting to zoology. With its extensive library of handbooks, style guides, and other resources, the Center offers a comfortable place to work on a paper. It is also frequently used as a meeting place for informal study groups.

FIRST-YEAR ADVISING AND STUDENT SUCCESS CENTER

The Advising Center offers students guidance through the important transition to university studies. The professional staff develops individualized support for any academic questions that may arise. Staff assists with course and program selection, registration, and the overall transition to college life. To help students get the most out of their college experience, the Center also periodically hosts workshops on topics such as Study Skills, Time Management, and Test-taking Strategies.

FOOD SERVICES

Students have a variety of meal plan choices for their meals per week board contract, and all students who reside in the University residence halls are required to purchase a board contract. Exceptions to the board requirement must be approved by the Office of Student Life.

In addition to the traditional cafeteria located in Kilburn Commons, there is also a Galley snack bar located in Kimball Hall.

HEALTH SERVICES

The health center is a walk-in clinic offering services to all UMM students and employees free of charge. A Registered Nurse, Board Certified in College Health, staffs the clinic and is available to treat minor illnesses, arrange appointments with physicians or the hospital, and assist in filing insurance claims for all illnesses during the school year.

In addition, the University uses the services of doctors and health care professionals in the Machias area who are always ready to meet student health needs. The Down East Community Hospital is less than five minutes from the campus and cooperates with the University in providing services to students.

The University provides a plan of Health, Accident and Sickness insurance. All students registered for 9 or more credits will be enrolled unless they complete a waiver form stating they have other coverage. This health insurance provides an inexpensive form of supplemental insurance that covers a portion of any costs incurred through injury or illness during the year.

CHILDCARE SERVICES

The Early Childcare and Education Center is located on the campus of the University of Maine at Machias across from the Frederic A. Reynolds Center and the Center for Lifelong Learning. The center has full- and part-time slots for infants through pre-schoolers, and recently received accreditation from the National Association for the Education of Young Children - one of only 45 child care centers in Maine to do so.

Admissions

ADMISSIONS

Admission into a degree program is a selective process at the University of Maine at Machias. Students are accepted for admission into the fall, spring, or summer semesters. It is recommended that candidates for admission submit their applications as early as possible. Though UMM has a 'rolling admissions' program, the early applicant is more assured of consideration for available financial aid. Graduating high school students are encouraged to apply for admission during the fall of their senior year.

The Admissions Office invites prospective students to visit the campus to discuss their educational interests. Information about academic programs and support services is provided, along with the requirements and procedures for admission. An interview and a tour of the campus facilities can be arranged. Prospective students are encouraged to contact the Admissions Office, Powers Hall, 207-255-1318 or toll free 1-888-468-6866.

ADMISSION REQUIREMENTS

A candidate for admission to UMM must be a graduate of, or will have graduated from, a secondary school, or must have passed a state secondary school equivalency examination (GED). The University recommends a college-preparatory high school program as appropriate preparation for the demands of all baccalaureate programs. Although the quality of work performed is more important than the distribution of high school units of credit, the following are required:

- English 4 units
- math (including algebra) 3 units
- science (with lab) 2 units
- social science/history 2 units

A course in the use of computers, such as keyboarding, is also strongly recommended, as well as the following:

- fine arts or foreign language 2 units
- electives 3 units

For recent high school graduates, the scores of the Scholastic Aptitude Test (SAT) of the College Board or the American College Testing (ACT) program's tests are required. Individual exceptions to standard tests may be considered for applicants with coursework and/or experience beyond high school.

Applicants to Business & Entrepreneurial Studies or associate degree programs in Business Technology who have had mixed or business programs in high school are given full consideration for admission. However, college preparatory English and mathematics courses are still recommended.

Applicants who have had some work or life experience since high school are evaluated on an individual basis.

APPLICATION PROCEDURE

NEW STUDENTS ADMISSION

To apply for admission to UMM, an applicant should:

1. Complete the University of Maine System application form on-line at <http://apply.maine.edu>. A completed paper application may also be mailed to the Admissions Office, UMM, 9 O'Brien Ave., Machias, ME 04654 with a \$40 non-refundable fee (check payable to the University of Maine at Machias).
2. Have their high school guidance counselor or principal forward directly to the UMM Admissions Office, records of secondary grades, recommendations, and available test results. An applicant who has been out of school for several years may also submit additional information and/or qualifications derived from such experiences as work or the military for assessment.
3. Have the official results of the Scholastic Aptitude Test (SAT) of the College Board or the American College Testing Program (ACT) forwarded directly to the UMM Admissions Office.
4. Plan for a campus visit, if at all possible, as part of the application process. Applicants may call or write the Admissions Office for an appointment at any time, 207-255-1318 or toll-free 1-888-468-6866.

TRANSFER STUDENTS ADMISSION

Qualified transfer students are accepted for admission into the fall, spring, and summer semesters. A transfer applicant must:

1. Complete the University of Maine System application form on-line at <http://apply.maine.edu>. A completed paper application may also be mailed to the Admissions Office, UMM, 9 O'Brien Ave., Machias, ME 04654 with a \$40 non-refundable fee (check payable to the University of Maine at Machias).
2. Provide official transcripts, with evidence of good standing, from all previously attended institutions, including high school. All credentials must be sent directly from the institution(s) attended to the UMM Admissions Office. The applicant may be asked to provide UMM with catalog course descriptions from institutions previously attended.
3. Applicants are not considered for admission to UMM following their dismissal from another institution. Pursuant to University of Maine System policy, UMM will not admit students to matriculated status who have been suspended from another UMS campus until the conditions established for termination of that suspension have been met.

INTERNATIONAL STUDENTS

INTERNATIONAL NEW STUDENTS ADMISSION

To apply for admission to UMM, an international applicant should:

1. Complete the University of Maine System application on-line at <http://apply.maine.edu>. A completed paper application may also be mailed to the Admissions Office, UMM, 9 O'Brien Avenue, Machias, ME 04654 with a \$40.00 non-refundable fee (check payable to the University of Maine at Machias).
2. Have their high school/secondary school transcript/results and letter of recommendations sent directly from the institution attended to the UMM Admissions Office.
3. Have the official results of the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT) or the Test of English as a Foreign Language¹ (TOEFL) sent directly to the UMM Admissions Office from the agency administering the test (submit only one of the tests). Successful scores on the TOEFL would be 500 or higher on the paper-based exam, or 173 or higher on the computer-based exam. In lieu of those exams, successful completion of level 109 at any FLS Language center may be used to demonstrate English proficiency. Students hoping to participate in intercollegiate athletics should take either the SAT or ACT exam.
4. Students whose highest level of education is at the secondary level may consider submitting secondary school transcripts to a foreign credentialing agency, requesting a document-by-document evaluation. This is especially encouraged for students who intend to participate in intercollegiate athletics and for students who have completed the equivalent of advanced placement courses at the secondary level.
5. Provide the UMM Admissions Office financial documentation indicating that they have the resources to cover non-resident tuition, room and board, and other expenses (contact the admissions office for the specific amount or with any questions).
6. Plan a campus visit, if at all possible, as part of the application process. Applicants may call or write the Admissions Office for an appointment at any time, 207-255-1318 or toll-free 1-888-468-6866.

¹ The TOEFL is only a valid choice for international students whose official language is not English.

INTERNATIONAL TRANSFER STUDENTS

ADMISSION

Qualified international transfer students are accepted for admission into the fall, spring and summer semesters. An international transfer student must:

1. Complete the University of Maine System application on-line at <http://apply.maine.edu>. A completed paper application may also be mailed to the Admissions Office, UMM, 9 O'Brien Avenue, Machias, ME 04654 with a \$40.00 non-refundable fee (check payable to the University of Maine at Machias).
2. Provide official transcripts, with evidence of good standing, from all previously attended institutions, including high school. All credentials must be sent directly from the institution(s) attended to the UMM Admissions Office. The applicant may be asked to provide UMM with catalog course descriptions from institutions previously attended.
3. Send their official secondary and post-secondary school transcripts or documents to either World Education Services (WES) or the Center for Educational Documentation (CED) for evaluation. Students should request a course-by course evaluation of their credentials. The UMM Registrar's Office will award appropriate transfer credit based on the report of the foreign credentialing agency.
4. International students whose official language is not English must demonstrate proficiency in the English language. This proficiency requirement may be satisfied by submission of proof of successful completion of the Test of English as a Foreign Language (TOEFL). Successful scores would be higher than 500 on the paper-based exam or 173 on the computer-based exam. In lieu of the exam, successful completion of level 109 at any FLS Language Center can be used to demonstrate English proficiency.
5. Provide the UMM Admissions Office financial documentation indicating that they have the resources to cover non-resident tuition, room and board and other expenses (contact the Admissions Office for the specific amount or with any questions).
6. Plan a campus visit, if at all possible, as part of the application process. Applicants may call or write the Admissions Office for an appointment at any time, 207-255-1318 or toll-free 1-888-468-6866.

ADVANCED STANDING

A transfer student's transcript is evaluated by the Registrar and this evaluation is deemed unofficial until countersigned by the student's advisor. A copy of the completed evaluation is then mailed to the student.

Transfer credit is awarded on the basis of the following principles.

External Transfer Credit — Transfer credit is awarded for all non-developmental courses from regionally accredited institutions in which the student has earned a grade of C- or better. All acceptable credits will transfer; however, grades and grade point averages will not. Students hoping to receive transfer credit for work done at foreign institutions should see requirements above under International Students.

Internal Transfer Credit — In accordance with UMS Board of Trustees' revised policy (11/17/2003), all undergraduate degree credit successfully completed with a grade of C- or better at any unit of the University System, but will not be automatically applied to the specific academic degree program a student has chosen. Grades earned in courses which transfer from other UMS campuses will appear on the UMM transcript, though they will not affect the student's GPA at UMM.

UNIVERSITY OF MAINE SYSTEM TRANSFER PRINCIPLES

1. Generally, course grades do not transfer from institution to institution. Semester and cumulative GPA's reflect only those courses taken at the home institution. Exceptions to this policy are approved by the Vice Chancellor for Academic Affairs. Students in external degree programs and/or taking courses at distant sites and centers should inquire about any exceptions that may apply.
2. Grades of C- or better in courses taken within the University of Maine System and accepted for transfer credit will be recorded on the student's transcript, although not computed into the cumulative GPA.
3. All undergraduate courses successfully completed with a C- or better at one UMS institution will transfer to another.
4. Each student must meet the established requirements of the academic program or college into which s/he is transferring. Transfer credits do not necessarily count toward such requirements.
5. Transfer students must consult the individual institution catalog to determine requirements regarding the number of degree credits that must be taken through the degree-granting institution.
6. Transferring students will be expected to provide official transcripts reflecting all previous post-secondary coursework.
7. Each accepted transfer student will receive a written evaluation of transfer credit. The transfer student should then meet with program faculty/advisors at the receiving institution to review how the transfer credit will be applied.

8. Course credit will be transferred only for coursework delivered by regionally accredited institutions, through AP or CLEP, or through life experience (i.e. prior learning or other learning, such as military training) when validated through the approved campus processes.
9. Course credit from international institutions will be accepted for transfer consistent with established institutional policies.
10. If a student disagrees with a decision made in regard to the transfer of their credits from one institution to another, the student may appeal through the regular academic appeals process at the receiving institution.

Credit by Examination — The University of Maine at Machias recognizes the principle of credit by examination and grants credit for appropriate scores on the College Board's Advanced Placement (AP) and College Level Examination Programs (CLEP) exams. A schedule of acceptable scores for each type of exam is available from the First Stop, Registrar's Office or Registrar's Office web site, or the Admissions Office.

Military Training and Experience — Veterans of US military service may receive credit for documented military training and experience. Credit is awarded based on the recommendations of the American Council on Education's Guide to Evaluation of Educational Experiences in the Armed Services. Transcripts from the Community College of the Air Force should be sent directly from CCAF to the UMM Registrar's Office for evaluation (see above). Applicants with SMART or AARTS transcripts should submit official copies of same.

Credit for Prior Learning — Students may earn credit for certain prior work and/or learning experiences upon submission of an appropriate portfolio and third-party documentation. Students should contact the Registrar's Office or web site for a more detailed outline of required materials

ALL CANDIDATES

All candidates are considered for admission after the application has been received and all required credentials are on hand. Students are informed of the admissions decision as soon as all credentials have been reviewed, or are notified in the event of any delay. Candidates are encouraged to contact the Admissions Office regarding any unwarranted delay to assure that all is in order.

The University reserves the right to revoke the admission of any applicant if it deems necessary to do so for academic or personal reasons.

On notification of acceptance to UMM, an **acceptance deposit** of \$50 is requested. Students desiring to live on campus are asked also to remit a **residence hall deposit** of \$100. Acceptance deposit refund requests are honored if submitted in writing and postmarked on or

before May 1st for the fall semester and January 1st for the spring semester.

EARLY NOTIFICATION OF ADMISSION

The University of Maine at Machias offers an Early Notification plan for qualified students, who may be accepted soon after the junior year of high school on the basis of three years of high school work and junior SAT's, or PSAT's where required. Candidates wishing Early Notification must make application for admission on or before December 15th of their senior year in high school and should indicate their desire for Early Notification by indicating 'Early Notification' on the top of the application form.

HIGH SCHOOL JUNIORS PROGRAM

A limited number of high school juniors ranking in the top 10 percent of their classes may be accepted for admission. Such early admission is undertaken with the understanding that earned college credits are applied as needed toward the secondary diploma as well as toward the college degree. These students must be highly recommended by their guidance counselors as being unusually well prepared academically and possessing the necessary maturity to enter a college program. The Principal and School Board of the applicant's high school must give approval.

EARLY COLLEGE PROGRAM

The Early College program provides qualified high school juniors and seniors the opportunity to enroll in college courses on the UMM campus. Students may often receive both high school and college credit for their UMM courses, giving them a jump start toward their college degrees. The UMM Early College office works closely with high school guidance counselors, and students receive full academic support both at their high schools and on the UMM campus. Through the Early College Program, students discover the rewards of learning at the collegiate level and begin a seamless transition to full-time college studies after high school graduation.

READMISSION

A matriculated student who fails to enroll continuously each fall and spring semester and who has not taken an official leave of absence must apply for readmission to pursue a degree program. Application for readmission is made through the Admissions Office. The student's status and class standing will be determined by a review of his or her previous academic work at UMM (and other institutions, if applicable), the period of time

that has elapsed since active enrollment at UMM, and changes in the curriculum and program requirements.

Students who are accepted for readmission to UMM enter under the catalog requirements in effect at that time, unless the student specifically requests on their readmission application to be readmitted under a catalog in effect at the time of their earlier attendance. The institution may approve or deny this request.

Readmitted students seeking grade forgiveness should refer to the policy under "Academic Standards & Policies" in this catalog.

STUDENT CLASSIFICATION

Matriculated Students — Any student admitted to UMM as a degree candidate or in a special status is considered a matriculated student. If unusual circumstances are associated with a student's acceptance, a matriculated student may be placed in one of the following admissions categories.

Special status — A student may be admitted to Special Status for the purpose of pursuing specific, short-term goals (i.e. teacher certification).

Conditional status — Based on a student's record at the time of admission, a student may be placed in a Conditional Status to alert both the student and their advisor that a reduced course load or enrollment in specific courses may be necessary for the student's academic success.

If the conditionally admitted student earns an acceptable cumulative grade point average the first semester (see Academic Standards and Policies), the conditional status will be removed. If the GPA is below the required minimum, the student will be placed on probation. Conditional status may be continued for a second semester only if the student has been unable to fulfill the conditions of admission due to reasons beyond their control.

Probationary status — A student who was suspended for academic reasons or who left UMM while on academic probation will be readmitted with probationary status. Students with probationary status will need to meet acceptable cumulative grade point.

Non-Matriculated Students — Anyone not matriculated at UMM, excluding students dismissed from a University of Maine System campus, may register for a maximum of 8 credit hours in any given semester as long as they have met all prerequisites for the courses in which they wish to enroll. Additional credits may be approved by the Vice President for Academic Affairs. In courses where enrollment is limited, matriculated students may be given priority.

PLACEMENT EXAMS

Students can demonstrate readiness to enter college-level English and math courses in a number of ways.

English — Students with test scores of 480 or better on the Writing section of the SAT, or 20 or better on the English section of the ACT, will automatically be eligible to take ENG 101 Composition. Those with Writing scores of 600 or better may elect to take the CLEP College Composition test. Those who earn a score of 50 or better on that exam will receive credit for ENG 101. Students who earn appropriate scores on either of the College Board's Advanced Placement exam in English will also receive credit for ENG 101.

Math — Students receive notation of intermediate algebra proficiency and are eligible to take upper-level math courses by meeting any of the following criteria:

- earn a score of 480 or better on the math section of the SAT, or 20 or better on the math section of the ACT;
- successfully complete a high school math course beyond Algebra II, excluding geometry;
- receive a 3 or higher on an Advanced Placement math exam;
- earn a 50 or higher on the CLEP College Math or College Algebra exams;
- successfully complete a math course having intermediate or college algebra as a prerequisite at a regionally accredited college.

Students who do not meet any of the above criteria must take placement exams to assess their reading, writing, and/or math skills. Test results are used to place students in the courses in which they will have the greatest chance for success and to provide a solid foundation for future work in all areas of study. Some students are required to take one or more developmental courses to prepare them for college-level work. These courses carry institutional credit and count toward the student's grade point average, but do not carry degree credit nor count toward eligibility for Dean's Lists.

NEW ENGLAND REGIONAL PROGRAM

Expanded study opportunities are available each year for non-Maine resident students through the New England Regional Program administered by the New England Board of Higher Education (NEBHE). Students qualifying for study under this program receive admissions preference among out-of-state applicants and are charged only 50 percent above the in-state tuition fee.

Students should consult with their high school guidance counselor; obtain a current edition of the Apple Book, New England Board of Higher Education Regional

Student Program, 45 Temple Place, Boston, MA 02111, for current information about regional programs; or write to the Admissions Office at UMM.

NEBHE rates are available to New Hampshire and Vermont students in UMM's Interdisciplinary Fine Arts program; to Connecticut and Vermont students in the Marine Biology program; and to Rhode Island students in the Recreation and Tourism Management program.

IMMUNIZATION REQUIREMENTS

All full- and part-time matriculated students born after 1956 are required by Maine state law to show proof of immunization for measles, mumps, rubella, diphtheria, and tetanus prior to registration for courses. A student may be exempted from this requirement under certain circumstances. Further information is available from the Student Health Center at 207-255-1275.

*Financial
Information*

FINANCIAL INFORMATION

TUITION AND FEES

Semester financial obligations are expected to be paid in full on or before the opening day of each semester. Individual financial situations can be discussed with the Business Office for consideration of deferred payment arrangements. Tuition and fees must be paid in advance at the Business Office, the First Stop, the UMM Calais Center or by mail on or before the first class session.

Tuition and course fees are payable in U.S. funds by cash, check or VISA/MasterCard/Discover.

The financial requirements of the University, changing costs, state and legislative action, and other matters may require an adjustment to these charges and expenses. The University reserves the right to make such adjustments to the estimated charges and expenses as may from time to time be necessary in the opinion of the Board of Trustees, up to the date of final registration for a given academic term. The applicant acknowledges this reservation by the submission of an application for admission or by course registration.

TUITION (2007-08)

Undergraduate, On-Campus

In-state	\$170.00 per credit hour
Out-of-state	\$471.00 per credit hour
New England Regional/ Canadian	\$257.00 per credit hour

The tuition per credit hour for courses broadcast over the statewide Interactive Television (ITV) network and/or other distance education courses will vary according to the tuition rate of the campus that originates the course. These tuition rates will be available each semester registration period.

FEES (2007-08)

Acceptance deposit	\$50.00
Application fee	\$40.00
Applied music/private lesson	\$85.00
Art fee	\$60.00
Deferred payment plan 3 - month	\$25.00
Deferred payment plan 10 - month	\$50.00
Health insurance	\$345.00 per year
(Spouse and dependent coverage available at additional premium cost.)	
Distance Learning Technology Fee	\$6.00 per cr hr
Distance Learning Course Fee Support	\$7.00 per cr hr
Lab fee	\$10.00
Late payment fee	\$50.00

Non-negotiable check	\$25.00
Orientation fee	\$50.00
Prior Learning assessment	\$25.00 per cr hour
Student activity fee	
Full-time students	\$240.00 per year
Part-time students	\$11.00 per cr hour
Transcript fee	\$3.00
Unified Fee (supports technology, the Center for Lifelong Learning, and other campus improvements)	\$50 per semester plus \$11 per cr hour.

ROOM AND BOARD (2007-08)

Board Level I	\$3,110 per year
Board Level II	\$2,962 per year
Room, traditional double	\$3,150 per year
Room, traditional single	\$3,880 per year
Room, large single	\$4,500 per year
Room, suite double	\$3,980 per year
Room, suite single	\$4,800 per year
Room deposit (new students)	\$100

IN/OUT-OF-STATE TUITION STATUS

In-state or out-of-state tuition classification is made by the Admissions Office and conveyed at the time the applicant is notified of their acceptance to UMM. The Vice President for Administration and Finance should be notified immediately of any disagreement with the decision, as any appeal or changes cannot be made after September 1 for fall semester and January 1 for spring semester.

TUITION ASSISTANCE

The University of Maine at Machias no longer defers payment of tuition charges for students employed by school administrative districts, school unions, or other agencies/companies who reimburse directly to students following their successful completion of an academic session. Students are responsible for paying to UMM the tuition costs at the time of registration and seeking employer reimbursement through the normal school union/district, or agency/company process.

If tuition charges are to be covered by an outside agency or scholarship, other than UMM, and paid directly to UMM, documentation (either an approved purchase order or a memo from the outside agency) must be sent to the UMM Business Office. In the case of military personnel, an approved request for tuition assistance must be furnished to the UMM Business Office.

VETERANS ASSISTANCE

Programs at the University of Maine at Machias are approved by the State Approving Agency for Veteran's Education Programs for the education and training of veterans, servicemen, and dependents of disabled and deceased veterans. Students who expect to receive benefits should contact the nearest VA Regional Office or UMM's Registrar's Office for information concerning eligibility, counseling and other benefits.

New students must submit the Certificate of Eligibility to the Registrar before their enrollment may be certified. Students who are eligible for VA benefits are responsible for paying their own tuition and fees with the exception of disabled veterans under Vocational Rehabilitation. Deferment of fees for students eligible for VA benefits may be possible subject to arrangements with the UMM Business Office.

STUDENT FINANCIAL OBLIGATION

UMM withholds diplomas, and transcripts from financially delinquent students. No student delinquent in his or her financial obligations to the University can withdraw in good standing or register for succeeding semesters at any campus of the University of Maine System. A student's registration may be suspended by the President for failure to meet financial obligations.

REFUND POLICY

Student charges are refunded to students withdrawing from UMM in accordance with the schedules and provisions set forth below. If a withdrawing student is receiving financial aid, all or a portion of that aid may be returned to the appropriate programs.

TUITION REFUNDS

For purposes of calculating tuition refunds, the attendance period begins on the opening day of scheduled classes, includes weekends and holidays, and ends on the date the student files withdrawal paperwork.

For all returning students withdrawing from UMM entirely, tuition is refunded as follows:

Academic Year — *Fall and spring semesters and all semesters 11 weeks in length.*

Cancellation prior to first day of class	100%
Withdrawal prior to	
End of second week	100%
End of fifth week	50%
End of eighth week	25%
Withdrawal after eighth week	0%

Other Sessions — *Less than eleven weeks*

Cancellation through first day of class	100%
Withdrawal prior to the point when	
30 percent of term expired	50%
60 percent of term expired	25%
After 60 percent of term expired	0%

Exceptions will be considered only in cases of illness, military service, death of an immediate family member, or involuntary transfer by student's employer. All requests must be accompanied by appropriate documentation.

PROVISIONS

No part of an advance deposit is refundable after May 1st for fall semester or January 1st for spring semester. Although such deposits are applicable to tuition charges for students who remain enrolled, students who withdraw forfeit them.

Refunds for involuntary withdrawals, e.g., extended illness or military service, are considered by the campus on a case-by-case basis.

UMM fees are not refunded. Student activity fees are assessed at the beginning of each semester and are not refunded.

For students who may be reducing their course load, and who have classes remaining, there is no financial penalty through the first two weeks of the semester. Following this period, there is no refund for a course load reduction.

For non-credit activities, there is a full refund of tuition if withdrawal is completed prior to the opening class session. There is a 50 percent refund of tuition in case of withdrawal during the first week up to and including the second class meeting and no refund after the second class meeting.

ROOM REFUNDS

The room refund policy pertains to students who are withdrawing from UMM. There is no refund for students who vacate a residence hall room during the academic year. When students enter into a residence hall contract, the contract is binding for the academic year unless a student moves in during spring semester. In that case, the contract is binding for the remainder of that academic year and room charges will remain on the student's account. The only exceptions to this requirement are December graduation and academic and disciplinary suspensions and dismissals.

BOARD REFUNDS

Students who withdraw from UMM are charged for meals at the established daily rate through the date of clearance; the balance of the board charge is refunded.

Students who choose to move off campus during a semester even though they are financially bound to honor the residence hall contract will be charged for meals at the established daily rate through the date they move off campus. The balance of the board charge is refunded.

*Financial
Aid*

FINANCIAL AID

APPLYING FOR FINANCIAL AID

Application for all student aid administered by UMM is made by completing the Free Application for Federal Student Aid (FAFSA). Students can obtain the FAFSA during December at high school guidance offices and financial aid offices, and mail to the Federal Student Aid Programs after January 1st. Students may also apply by accessing the web site www.fafsa.ed.gov.

Consideration for student assistance will be given at any time during the year. However, since most student aid is awarded between March and June for the upcoming year, and is contingent upon the availability of funds, it is recommended that students file early.

FAFSA's should be sent to the Federal Student Aid Programs in time for arrival there no later than March 1st to meet UMM's priority funding deadline. Applications for student assistance are filed once per academic year. Federal regulations, the availability of funds, and family situations change each year. A student may be eligible for aid even though the student or another family member was not previously eligible.

ELIGIBILITY

A student must meet the general eligibility requirements listed below before receiving any Title IV assistance, including Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), Federal Work Study (FWS), Federal Perkins Loan, or Federal Stafford Loan. To be eligible, a student must:

- have financial need, except for some loan programs.
- have a high school diploma or a General Education Development (GED) certificate, pass a test approved by the U.S. Department of Education, meet other standards your state establishes that are approved by the U.S. Department of Education, or complete a high school education in a home school setting that is treated as a home school or private school under state law.
- be enrolled or accepted for enrollment as a regular student working toward a degree or certificate in an eligible program. (Students may not receive aid for correspondence or telecommunications courses unless such courses are part of an associate, bachelor's, or graduate degree program.)
- be a U.S. citizen or eligible non-citizen.
- have a valid Social Security number.
- make satisfactory academic progress.
- sign a statement on the FAFSA certifying that he or she will use federal student aid only for educational purposes.

- sign a statement on the FAFSA certifying that he or she is not in default on a federal student loan and that he or she does not owe money on a federal student grant.
- register with the Selective Service, if required.

DETERMINATION OF NEED

The purpose of filing the FAFSA is to obtain for the family and school an estimate of the family's ability to contribute to the student's education. The basic premise of federal student aid is that the student/family has primary responsibility for meeting the educational expenses of the student. The Expected Family Contribution (EFC) is also provided to the state scholarship program. The Federal Student Aid Programs use the family information on the form(s) to determine the EFC via the need analysis prescribed by the Department of Education.

After the FAFSA has been sent to the Federal Student Aid Programs, it takes from 3 to 4 weeks for the application to be processed and the results sent to the student, the school, and the state scholarship program. Students will receive a Student Aid Report (SAR) for their records and for communicating data changes on the FAFSA.

AWARDING OF FINANCIAL AID

The Student Financial Aid Office determines a student's need for assistance by comparing the estimated cost of education to his or her EFC:

Total cost of education at UMM
minus expected family contribution
equals financial need eligibility

The Student Financial Aid Office will prepare an individualized financial aid package that consists of grants, loans and work-study to the extent of a student's established eligibility. Students may receive assistance from one or any combination of these programs at the discretion of the Student Financial Aid Office. Need and availability of funding determines the specific package. Students receive Financial Aid Award Letters offering assistance with instructions for their review and action.

The Student Financial Aid Office may revise offers of financial aid at any time during the year if a student receives outside scholarship funds or if his or her status changes relative to enrollment, income, number of dependents, residence, and/or marital status. Awards are tentative until all requested supporting documentation is received and reviewed by the Student Financial Aid Office.

Financial aid awards are made annually with each semester's awards designated on the Award Letter to the student. Aid is disbursed to student accounts each semester.

SATISFACTORY ACADEMIC PROGRESS AND FINANCIAL AID ELIGIBILITY

General Information

Students must demonstrate evidence of satisfactory academic progress to receive funds from any of the following federal student aid programs: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), Federal Work-Study (FWS), Federal Perkins Loan, and the Federal Family Educational Loan Program.

Students' progress is measured by grade point average and the number of credits completed. Students have a maximum time frame in which to complete their academic program. This time frame varies depending on the program of study and whether the student is considered full-time or part-time. A student must meet both the minimum GPA requirement, as stated in the University catalog, and have completed the required credit hours within the specified time frame to retain eligibility for federal financial aid. The same standards apply to institutional aid as to federal Title IV financial aid programs. These programs include but are not limited to University Grant and North American Indian Room and Board Scholarship.

Minimum GPA Requirements

A student academically suspended or dismissed is ineligible for financial assistance. A student placed on academic probation must at least continue to meet the stipulations for academic probationary status to continue to be eligible for financial aid consideration.

It is possible, however, to retain degree status at the University but lose eligibility for financial aid by failing to meet the quantitative measure of financial aid eligibility.

Maximum Time Frame

Full-time study

Associate's degree program	3 years
Bachelor's degree program	6 years

Three-quarter-time study

Associate's degree program	4 years
Bachelor's degree program	8 years

Half-time study

Associate's degree program	6 years
Bachelor's degree program	12 years

Time frames for completion of all degree requirements have been established for students identified as half-time, three-quarter-time, or full-time students. The quantitative measure of satisfactory academic progress is determined by considering credit hours earned within certain periods of time. Grades of F, W, WP, WF, Incomplete, or Audit are not considered earned and will not be counted in the total. Developmental classes do not

earn credits to be counted in the total. Students may receive financial aid for courses repeated one time only for grade improvement if the original grade was D or F. The Student Financial Aid Office uses the following schedule for quantitatively measuring academic progress:

Full-time, Bachelor's, Maximum time: 6 years

Semester	1	2	3	4	5	6
Credits	6	12	18	24	36	48
Semester	7	8	9	10	11	12
Credits	60	72	84	96	108	120

3/4-time, Bachelor's, Maximum time: 8 years

Semester	1	2	3	4	5	6
Credits	3	6	12	18	24	30
Semester	7	8	9	10	11	12
Credits	39	48	57	66	75	84

1/2-time, Bachelor's, Maximum time: 12 years

Semester	1	2	3	4	5	6
Credits	3	6	9	12	15	18
Semester	7	8	9	10	11	12
Credits	21	24	30	36	42	48
Semester	13	14	15	16	17	18
Credits	54	60	66	72	78	84
Semester	19	20	21	22	23	24
Credits	90	96	102	108	114	120

Full-time, Associate's degree, Maximum time: 3 years

Semester	1	2	3	4	5	6
Credits	6	12	24	36	48	60

3/4-time, Associate's degree, Maximum time: 4 years

Semester	1	2	3	4	5	6
Credits	3	6	15	24	33	42
Semester	7	8				
Credits	51	60				

1/2-time, Associate's degree, Maximum time: 6 years

Semester	1	2	3	4	5	6
Credits	3	6	9	12	18	24
Semester	7	8	9	10	11	12
Credits	30	36	42	48	54	60

Failure To Make Satisfactory Academic Progress

Students not making Satisfactory Academic Progress in accordance with this policy on a qualitative and/or quantitative basis will be given written notice of their status. If aid eligibility is rescinded, the student may file a written appeal with the Director of Student Financial Aid within two weeks. The appeal must describe the circumstances related to failure to meet satisfactory academic progress requirements. The Director of Student Financial Aid will review the appeal and, if appropriate, consult with the Vice President for Academic Affairs and/or other administrators. Following this review a

decision will be made regarding the appeal and communicated in writing to the student. Mitigating circumstances that may be considered include illness or change in educational program.

Condition for Reinstatement of Financial Aid

Students must complete the required number of credits in the appropriate semester of the time frame and have attained the required GPA in order to have aid reinstated. The student must notify the Student Financial Aid Office in writing that the conditions of reinstatement have been met. The student will observe the standard application procedures and deadlines for financial aid consideration and will receive written notification if financial aid is reinstated.

RETURN OF TITLE IV FUNDS TO THE FEDERAL STUDENT AID PROGRAMS

When a student withdraws from UMM (either officially or leaves without notification) and is a financial aid recipient, all or a portion of the student's financial aid may be returned to the Federal Student Aid Programs.

The Student Financial Aid Office will examine the pertinent information and make a determination according to federal guidelines as to how much financial aid must be returned to the Programs. Information used in that determination includes date of withdrawal, amount and type of aid awarded, and amount of University charges.

STUDENT AID PROGRAMS

Federal Programs

Federal Pell Grant — awarded to undergraduate students who demonstrate financial need as determined by the Federal Student Aid Programs.

Federal Work Study (FWS) — provides on-campus employment for students with demonstrated financial need. A wide variety of employment opportunities exists for students, who are paid every two weeks. The amount earned may not exceed the award (earnings limit).

Federal Supplemental Educational Opportunities Grant (FSEOG) — available to students who demonstrate exceptional financial need. Priority is given to Pell Grant recipients.

Federal Perkins Loan — available through a combination of federal and University funds. The loans carry a 5 percent rate of interest, and repayment begins nine months after graduation or if enrollment drops to less than half time. The cumulative loan limits are \$3,000 annual and \$15,000 aggregate.

Subsidized Stafford Loan — based on financial need as determined by the Federal Student Aid Programs via application made using the FAFSA. This is a long-term repayment loan for students, with a low interest rate. No interest accrues while the student is in school, and the

loan includes a grace period of six months beginning in 2007-08. Stafford Loan limits for all students are:

1st year	\$3,500
2nd year	\$4,500
3rd and 4th years	\$5,500
Cumulative	\$23,000

Unsubsidized Stafford Loan — available to students who do not qualify in whole or in part for the Subsidized Stafford Loan. Eligibility for Subsidized Stafford Loan must be determined prior to receiving Unsubsidized Stafford. Interest rate is the same as Subsidized Stafford.

Dependent borrowers can receive both subsidized and unsubsidized Stafford Loans totaling up to their applicable Stafford Loan limit (see above).

In addition to the borrowing limits established for dependent students, independent students may borrow additionally:

1st and 2nd years	\$4,000
3rd and 4th years	\$5,000
Cumulative	\$23,000

Federal PLUS Loan — for parents of dependent students. Parent borrowers must meet credit check approval. This is a long-term repayment, low-interest loan although repayment begins when funds are disbursed. The loan amount is limited to the cost of education minus other financial aid received by the student.

State Programs

Maine State Grant — offers aid to Maine students pursuing programs of study in an accredited college or university. Application is made by completing the FAFSA by the published deadline.

Educators for Maine Interest Free Loans — offer a maximum of \$3,000 per year to Maine residents, based on academic achievement. Applications are available through the Finance Authority of Maine and at high school guidance offices.

UMM Programs

Need-based grants — provide assistance to students on the basis of financial need. Application is made by completing the FAFSA. Grants vary in amount and provide direct financial support to many students. These grants are not repaid.

Presidential Scholarships — created by UMM to provide financial support for deserving students who will uphold the University's high standards of academic excellence and campus/community involvement. Scholarship amounts vary according to student status. Available to first-time students. Inquiries should be directed to the Admissions Office.

Other Assistance

Payment Plan — available for full-time students and parents who find it more convenient to make monthly payments. UMM offers a 10-month Payment Plan. This

plan is designed to relieve the pressure of lump sum payments for full-time students and allows for spreading the academic year costs over a period of months according to a specified schedule. Contact the Business Office at 207-255-1312 for more information.

*Academic Standards
and Policies*

ACADEMIC STANDARDS AND POLICIES

ACADEMIC ADVISING

The student has the final responsibility for meeting program and degree requirements. To assist the student with course selection and long-range planning, the Academic Affairs Office assigns a faculty or staff advisor to each matriculated student. Students and advisors discuss such matters as course selection, general academic progress, the desirability of changing degree programs, and the student's overall educational goals.

All matriculated and special students must discuss course selections with their advisors prior to registration. Students registering using WebDSIS (www.maine.edu/dsis) must obtain a Registration Access Number (RAN) from their advisor each semester. Students choosing to register with a registration card must obtain their advisor's signature before submitting the card to the First Stop or the Registrar's Office.

ACADEMIC LOAD

A 15- or 16-credit academic load per semester is considered a normal academic load for students wishing to complete a baccalaureate degree in four years. However, several factors may lengthen this period. For example, some students require extra courses at the beginning of their studies; some students find it necessary to repeat courses; and many students work, have families, or maintain other commitments that preclude finishing the degree in the minimum period.

To be considered full-time, a student must carry a minimum load of 12 credits. Full-time enrollment is required for participation in elective offices in student government, residence hall accommodations and other benefits, intercollegiate athletics and full veteran's benefits. Students on probation or with other major responsibilities, such as family or employment, should consider a load of less than 15 credits. A semester load in excess of 18 credit hours must be approved by the Vice President for Academic Affairs.

A student carrying a load of fewer than 12 credits is considered to be a part-time student. UMM's course scheduling and other services recognize the needs of part-time students.

DOUBLE MAJOR

A student may elect to enroll in a double major within the same degree program (i.e. B.A. in English and History). If a student chooses to enroll in two different degree programs simultaneously or consecutively (i.e.

B.A. and B.S.), then the student must earn 30 credits beyond the number required for the degree with the lesser number of credit hours.

POST-BACCALAUREATE STUDY FOR SECOND DEGREE

Students who have already earned a baccalaureate degree from a regionally accredited institution will receive a waiver of UMM core requirements. This waiver will be posted during the transfer credit evaluation process.

PROGRAM CHANGES

It is not unusual for a student to be admitted to UMM for a particular academic program and later discover that a different program will better suit his or her needs and interests. Many students change their majors one or more times. Often it is advisable to enter as "undeclared" and explore various areas before deciding on a major.

To change academic programs students must complete a Change of Major form, taking into consideration the recommendation of their academic advisor and the Division Chair, and take the completed form to the Academic Affairs Office.

PROFESSIONAL LICENSURE & CERTIFICATION

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 UMM 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 UMM does not guarantee licensure, certification, or employment in the relevant occupation.

REPEATING COURSES

When a student repeats a course, the initial grade remains on the transcript, but only the latest grade is used

for computing the grade point average. Credit earned for all previously completed attempts of the course will be lost. When a student completes the exact equivalent of a UMM course at another institution (while registered at that institution) with an acceptable grade, the effect of the original grade on the student's GPA will be cancelled. However, the grade the student earned at the other institution will not replace the original grade in the calculation of the GPA, in accordance with standard transfer credit policy.

ADD/DROP

Procedures

WebDSIS — Students can use WebDSIS (www.maine.edu/dsis) to add and drop courses during the Add and Drop periods. For students already registered for semester courses, no additional access numbers are needed beyond their Student ID # (Social Security #) and PIN (initial PIN is six-digit date of birth). Students can also use WebDSIS to print out their revised schedules.

Paper-based changes — Students who choose to add and drop courses using the paper-based system must obtain the signature of their advisors on an add-drop form, which can be obtained from and must be returned to either the First Stop or the Registrar's Office by the indicated dates.

Deadlines

Add Period — No student may add a course after the start of the fourth class hour of that course without the written approval of their academic advisor and the course instructor. In the case of one-credit courses, instructor and advisor approval is required after the third class hour. Equivalent time periods are determined for courses that follow a non-traditional schedule.

Late Adds — A student may not add a course after the third week of the semester (or 20% point of shorter sessions) without completing a Late Course Add form, which must be approved by the instructor, advisor and Vice President for Academic Affairs. On the form, the student will explain the extraordinary circumstances which prompted the request. The instructor and student must also explain how the student plans to make up all missed work.

Drop Period — Students not withdrawing from school completely may reduce their course load without any financial penalty through the first two weeks of the semester. Dropping a course during this period will leave no record of course registration on the student's record.

After the drop period has passed, a student withdrawing from a course must use a Course Withdrawal form.

WITHDRAWAL

Course Withdrawal

From the end of the Add/Drop period until the 60% point of the term or session, a Course Withdrawal form must be completed by the student. Students should obtain both instructor's and advisor's signatures and submit the form to the First Stop or Registrar's Office. Grades of "W" are issued for withdrawals and do not affect the student's grade point average, although they might affect financial aid.

Except in unusual circumstances, and with the approval of the Vice President for Academic Affairs, a student may not withdraw from a course after the withdrawal deadline.

Students requesting permission to withdraw from a course after the final withdrawal deadline must submit a letter to the Vice President for Academic Affairs explaining the extenuating circumstances that prevented the student from withdrawing by the deadline. This letter should be submitted with the Course Withdrawal form described above. In cases of medical emergency, a letter from the attending physician should also be attached. The Vice President for Academic Affairs may approve or deny this request.

Semester Withdrawal

Students intending to withdraw from all classes for a semester must complete the appropriate section of an official Withdrawal form, whether or not they intend to return the following semester. Students intending to return must obtain their advisor's signature, while those who do not intend to return must meet with the Student Success Coordinator (second floor of Torrey Hall). Withdrawal forms and all attachments should be submitted to the First Stop or Registrar's Office, who will forward to the Vice President for Academic Affairs for a decision if necessary.

Students who leave classes/university and do not complete an official withdrawal form are liable to suffer academic penalties (i.e. failing grades and ultimate dismissal). Students desiring to withdraw after the 60% point of the term or session should attach a letter as described above to the withdrawal form.

Semester withdrawal results in grades of "W" in all courses that have not already been graded for that semester.

LEAVE OF ABSENCE

Matriculated students planning to take a semester off may apply for a Leave of Absence. Students who take an approved leave of absence may return to degree status at the end of the leave period without making formal application for readmission. A leave of absence longer than one semester in length requires the approval of the

Chair of the Division housing the student's major. Students may not remain on leave for more than two consecutive semesters. A leave of absence must be requested no later than two weeks after the start of the semester in question. Forms are available from the First Stop or Registrar's Office or on the Registrar's Office web site.

COURSEWORK AT OTHER INSTITUTIONS

Students matriculated in UMM degree programs are expected to secure written approval prior to taking coursework at another institution. Students should complete an Away Approval form, available from the First Stop or Registrar's Office or Registrar's Office web site, well in advance of registering at the "away" institution. Prior approval will ensure that the course will transfer to UMM as recorded on the Away Approval form, as long as the student completes the course with an acceptable grade. Credit approved for courses taken at other institutions will be evaluated and posted to the student's record according to UMM's Transfer Credit Policies (see above).

GRADE FORGIVENESS

A student readmitted to the University of Maine at Machias after a period of two or more years may choose to request grade forgiveness for all previous work done at the institution. To qualify, students must be matriculated and enrolled at the time of the request, and have completed at least 15 credits at the institution with a minimum GPA of 2.5 after the point of readmission.

If grade forgiveness is approved, the student retains past credits only for courses in which a grade of C- or higher was received. The effect of all prior quality points is nullified and the student's cumulative GPA is reset to zero. All prior grades earned continue to be displayed on the student's transcript, though they do not affect the student's cumulative GPA.

PASS / FAIL

Courses are graded on an A to F basis unless otherwise noted in the course description.

When a course is graded on a pass/fail basis, the grade of P will be considered equivalent to a C- or better. A grade of LP (Low Pass) may also be assigned, and considered the equivalent of a D+, D or D-. A grade of F earned in a course graded on a pass/fail basis will not affect the grade point average.

When a course may be taken pass/fail at the option of the student, the student must declare his/her option in writing before the end of the second week of classes by submitting the appropriate form to the First Stop or Registrar's Office, or to the instructor, who will in turn

submit the student's form to the Registrar's Office. Once made, this decision cannot be changed.

AUDIT

A student may audit a course for informational instruction only. A student who audits does not receive academic credit for work done.

A student may register for any course on an audit basis by obtaining the approval of the course instructor on a Course Audit Request form (available from the First Stop or Registrar's Office or Registrar's Office web site). Students auditing a course pay full price for tuition and fees.

A course registration may only be changed to or from audit status during the first week of the semester. Instructor permission is required.

Full-time students may not use the audit registration as a basis for exceeding the usual credit maximum of 18 semester hours. Audit registration also may not be used as a means of achieving full-time status.

Audit registrations will appear as such on the permanent record of the student. The University, therefore, reserves the right to monitor the attendance of the auditing student.

GRADING

Official grades are reported and recorded on a student's official academic record at the end of each semester on the basis of the following system:

<i>Grade</i>	<i>Quality points per credit</i>
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F	0.00

A	Excellent
B	Good
C	Satisfactory
D	Minimal pass
F	Failure
I	Incomplete; temporary grade indicating that specific arrangements have been made with the instructor to complete work by a later date not to exceed 210 days. An "I" that is not removed by the prearranged date is replaced with an "F."

- DG Deferred grade; satisfactory progress in a course that extends beyond a single semester.
- W Withdrawal or administrative withdrawal
- P Successful completion of a pass/fail course; hours are not included in GPA calculations.
- LP Low Pass (D+, D, D-) in a Pass/Fail course; hours are not included in GPA calculations.
- L Stopped attending; may be assigned to the student who stopped attending a course without officially withdrawing. "L" will be computed as an "F" for GPA purposes.
- MG No grade supplied by instructor.
- AU Audit registration; no credit hours attempted or earned.
- X Placed in front of a grade symbol for a course that has been repeated; neither credit nor quality point is computed.
- R Repeated course; only latest registration affects cumulative point average.
- * Quality points count toward GPA; credits do not count toward degree credits earned.
- ~ Quality points do not count toward GPA; credits count toward degree credits earned.
- # Quality points do not count toward GPA; credits do not count toward degree credits earned.

To compute a grade point average (GPA), the number of credits for each course is multiplied by the quality points for each grade received. For example, a grade of A in a three-credit-hour course would be worth 4 x 3, or 12 quality points. The cumulative GPA is obtained by dividing the total number of quality points earned at UMM by the total number of GPA hours attempted at UMM. For example, 108 quality points divided by 36 GPA hours attempted results in a cumulative GPA of 3.0. The following grades and/or symbols are not used in the computation of GPA: I, W, P, LP, DG, MG, AU, and X.

ATTENDANCE

A student is responsible for meeting all the academic requirements of a course, including attendance. The attendance policy for each course is stated in the course syllabus given to each student at the first class meeting.

GRADE REPORTS

Students can print copies of their grade reports by using WebDSIS (www.maine.edu/dsis) and selecting Term Grades. Grades are available in WebDSIS as soon as they are posted. Students needing assistance accessing WebDSIS should call the First Stop at 255-1470 or the Registrar's Office at 255-1223.

ACADEMIC RECORDS

Transcripts — Students' official academic records are maintained in the Registrar's Office. Transcripts of these records are not furnished to individuals, other institutions, or prospective employers without the written consent of the student. Written requests for transcripts should be addressed to the Registrar's Office, University of Maine at Machias, 9 O'Brien Avenue, Machias ME 04654-1397. The cost of an official transcript is \$3; additional transcripts ordered at the same time are \$1 each. Transcripts sent to other University of Maine System campuses are free. University policy prohibits issuing official transcripts to any student indebted to the University.

Academic Record Changes — Considerable care is taken to ensure that courses and grades entered on a student's permanent record are accurate. Any student who suspects an error has been made should contact the Registrar's Office immediately. Records are assumed to be correct if a student does not report any discrepancies to the Registrar's Office within one year of the completion of the course. At that time, the record becomes permanent and the student has no further right to appeal.

PROBATION AND SUSPENSION

To be considered in good academic standing, students are required to meet the following minimum cumulative and/or semester GPA:

<i>Credit hours attempted</i>	<i>Minimum cumulative GPA</i>
0 - 15	1.5
16 - 29	1.6
30 - 59	1.7
60 - 89	1.8
90+	1.9

Probation — Students will be placed on academic probation if their cumulative GPA falls below the minimum specified for the hours they've attempted. Students who earn a semester GPA of 1.5 or less, regardless of their cumulative average, will also be placed on probation.

Suspension — Students who have been on probation for two consecutive semesters and fail to achieve the necessary minimum GPA will be suspended for one semester. Students suspended must apply for readmission if they desire to return.

Appeal Process — If a student wishes this suspension to be reconsidered, he or she has the option for an appeal to the faculty Academic Affairs Appeals Committee. If the Committee upholds the suspension and the student is not satisfied, the student has the option for a further appeal to the Vice President for Academic Affairs.

Dismissal — Students placed on suspension for a third time will be dismissed from the University for five years. Students dismissed for academic reasons must apply for readmission if they desire to return.

RESIDENCY REQUIREMENTS

Students in baccalaureate degree programs must complete at least 30 credits through UMM, at least 12 of which must be in their major and 9 of these 12 must be upper level (300 level or above). Students must complete at least 15 credits through UMM to receive an associate degree from this institution

COURSE SUBSTITUTIONS

Under unusual circumstances, a student may request that a course substitution be approved for a particular core or program requirement. The student must initiate the request, indicating the course to be substituted for the requirement and detailing how the replacement course meets the objectives of the original requirement. Faculty who normally teach the required course will have input into the decision, as will the student's advisor. Faculty in the Division housing the student's major will vote to grant or deny the substitution. For core requirements, the additional approval of the Program Review and Evaluation Committee is also required. Copies of the complete policy, procedures and forms may be obtained from the First Stop, Registrar's Office or Registrar's Office web site.

DEAN'S LIST

At the end of each semester, a Dean's List is compiled to recognize students who have performed with distinction. Academic achievement in summer courses is not considered for inclusion in the list.

All matriculated and special students (e.g., Teacher Certification, UMS Away) are eligible if:

1. they have completed at least 6 or more credits graded on an A-F basis, excluding developmental courses, during the semester in question. Credits earned on a pass/fail basis and in developmental courses (numbered below 100) do not count toward the 6 credit hours;
2. they have achieved a semester average of 3.25 or better and have earned no grade below a C in any course that semester. The semester average for Dean's List purposes will not include grades from developmental courses;
3. they have no Incomplete or Missing grades on their record for that semester, and they have not withdrawn from 6 or more credits during the term; and
4. their academic performance is otherwise satisfactory.

The Dean's List will be formulated 35 days after the end of the semester. Any final grades or grade changes submitted after that time will not affect a student's Dean's List status for that term.

HONORS

Degrees are conferred with Honors at commencement for the following academic achievement:

Baccalaureate Degree

Cumulative GPA	
3.75 and above	<i>summa cum laude</i>
3.50-3.74	<i>magna cum laude</i>
3.25-3.49	<i>cum laude</i>

Associate Degree

Cumulative GPA 3.00 and above *with honors*

CATALOG EFFECTIVE FOR GRADUATION REQUIREMENTS

Freshmen and new transfer students must satisfy the graduation requirements outlined in the catalog in effect the first semester of their attendance as a matriculated student. Students who take a break in enrollment from the institution without applying for a formal leave of absence must apply for readmission to the institution. Those who wish to complete degree requirements under the catalog in effect during their first semester as a matriculated student should request readmission under the terms of that catalog on their readmission application. The institution may approve or deny this request based on the number and type of courses that the student has left to complete. If this request is denied, students will be expected to complete degree requirements in effect at the time of readmission to the institution.

Any student has the right to select graduation requirements from a later catalog than the one in effect at the time of initial matriculation. No student may select requirements from an earlier catalog.

If significant changes to the University Core and/or program requirements take place while a student is in attendance, a student may choose to complete old core and new program requirements, instead of completing all requirements from the catalog in place at initial matriculation. However, students may not select program and concentration requirements that come from different catalogs.

ACADEMIC INTEGRITY

Academic integrity is fundamental to an educational community and students have a responsibility to uphold that integrity. Academic dishonesty, a corrosive force in the academic life of any university, jeopardizes the

quality of education and depreciates the genuine achievements of others. Academic dishonesty committed by a student may include any of the following areas:

Cheating — Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.

1. The use of books, notes, calculators, conversations with others, etc. is prohibited unless specifically authorized by the instructor.
2. Students must not allow others to conduct research or prepare any work for them without advance authorization from the instructor. This includes the services of commercial term paper companies.
3. Substantial portions of the same academic work may not be submitted for credit or honors more than once without authorization from the instructor.

Fabrication — Intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

1. “Invented” information may not be used in any laboratory experiments or other academic exercise without notice to and authorization from the instructor.
2. A student should acknowledge reliance upon the actual source from which cited information was obtained.
3. Students are prohibited from attempting to alter and resubmit returned academic work without notice to the instructor.

Facilitating Academic Dishonesty — Intentionally or knowingly helping or attempting to help another commit an act of academic dishonesty.

Plagiarism — Intentionally or knowingly representing the words or ideas of another as one’s own in any academic exercise.

Direct Quotation — Every direct quotation must be identified by quotation marks or appropriate indentation and must be promptly cited in a footnote. Appropriate referencing protocols are the prerogative of the instructor, or the style appropriate to the discipline of the course or requirements of the instructor.

Paraphrase — Prompt acknowledgment is required when material from another source is paraphrased or summarized, in whole or in part.

Borrowed Facts or Information — Information obtained from reading or research that is not common knowledge among students in the course must be acknowledged. Materials that contribute only to the general understanding of the subject may be

acknowledged in the bibliography and need not be immediately footnoted.

ACADEMIC APPEAL PROCEDURES

First Level of Appeal — Appeals in all academic matters should be initiated by the student directly, in person, with the administrator, faculty member or staff member involved within 30 days of the incident or event in question. If the student is not satisfied with the results, he/she should consult immediately with his/her academic advisor.

Second Level of Appeal — The next level of appeal should be by the student and their academic advisor to the next superior of the administrator, faculty member, or staff member involved, and should be submitted in writing within ten days after the ruling on the initial appeal step.

Third Level of Appeal — The third level of appeal should be to the Vice President for Academic Affairs, unless they have already been involved at the level of the second step described above.

Fourth Level of Appeal — If not satisfied with the decision of the Vice President for Academic Affairs, the student may, with the assistance of their academic advisor, request a hearing before the Academic Appeals Committee. At this point in the process, the question of whether the appeal is indeed of an “academic” nature shall be determined by the President, the Vice President for Academic Affairs, and the Director of Student Life before the appeal shall be referred to the Academic Appeal Committee. If it is ruled not to be an “academic” matter, the appropriate appeal procedure shall be pointed out to the student and their advisor.

The Academic Appeals Committee shall consider all action taken on the appeal to this point and other matters that it deems pertinent to the case. It shall make a full report of this and a specific recommendation for final disposition by the President. As a part of its recommendation, the Academic Appeal Committee shall report the vote count within the committee on its recommendation.

Final Ruling — The President shall make the final ruling on the appeal.

CONFIDENTIALITY OF STUDENT RECORDS

The University of Maine at Machias complies fully with the provisions of the Family Educational Rights and Privacy Act of 1974. The following guidelines pertaining to the confidentiality of student records apply to students presently enrolled, but not to former students, alumni, and applicants seeking admission to the institution.

Public Information

The University of Maine at Machias has designated certain information contained in the education records of its students as directory information for purposes of FERPA. Such directory information may be publicly shared by the University unless the student has taken formal action to restrict its release. Directory information includes: name, date of birth, home and mailing address, phone number, class level, program of study, dates of attendance, enrollment status (full or part-time), degrees and awards received, most recent previous educational institution attended, participation in sports and activities, and appropriate personal athletic statistical data.

Students can make a request that their directory information not be released at any time while they are an enrolled student at the University. Students must submit a *Request to Suppress Directory Information* form, available online, to the UMM Registrar's Office. Students also can sign into the MaineStreet portal and make the appropriate selection under Privacy settings. The request will be honored until such time as the student requests otherwise in writing. In the event that such written notification is not filed, the University assumes that the student does not object to the release of the directory information. Once a student is no longer enrolled at the University s/he can no longer request that their directory information not be released.

Access Rights of Student

Students with no financial obligations to the institution may obtain a copy of their academic transcript. A transcript issued to a student is labeled as "Issued to Student." Students with computerized records may view their academic history using WebDSIS (www.maine.edu/dsis).

A signed release, in the form of either the official college request form or a personal letter, is required for the release of permanent, official, unofficial, or temporary records to third parties.

Students are entitled to inspect and question their academic records as compiled by the Office of the Registrar, and the accuracy of recording may be challenged. A student's request to inspect their records will be honored by appointment within a 45-day period.

Documents related to a student's application for admission are not accessible to the student nor are they sent elsewhere at the student's request. In exceptional cases, especially related to foreign students, copies of records may be prepared and directed to other institutions at the student's request to prevent hardship to the student.

The Financial Aid Form and related financial information is not released to the student.

The student may establish either an open or confidential placement file for the receipt of evaluations and letters of recommendation. With the confidential file,

the student waives their right of access to these recommendations and evaluations.

The institution may levy a reasonable fee for copying and transmitting educational or other information.

Access Rights of Other Persons and Agencies

No one shall have access to the educational records of a student without written consent except for the following:

1. To school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, support staff (including Public Safety, Career Center and Student Health Services staff), or coaching position; a person or company with whom the University has contracted (such as an attorney, auditor, National Student Clearinghouse or collection agent); a person serving on the Board of Trustees; a University volunteer working under the supervision of another school official; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
2. To authorized federal or state officials in connection with an audit or evaluation of federal or state supported educational programs.
3. To state or local officials pursuant to state statute concerning the juvenile justice system.
4. Records released in connection with the student's application for, or receipt of, financial aid.
5. Organizations conducting studies on behalf of educational agencies in connection with predictive tests, student financial aid programs, or the improvement of instruction provided that the identity of students is not revealed to other than representatives of such organizations. Such information will be destroyed when no longer needed for the purpose for which the study was conducted.
6. Recognized accrediting organizations in order to carry out their accrediting functions.
7. Parents of a student who is dependent upon such parents for federal income tax purposes.
8. Records released on the basis of judicial order or lawfully issued subpoena and on condition that every effort is made to notify the student of the subpoena or order, except where a court or other issuing agency has ordered that there be no notification.
9. In an emergency, appropriate persons as determined by the custodian of the records, if the knowledge of information from the particular record is necessary to protect the health or safety of the student or other persons.

10. Disclosure to another educational institution where the student seeks or intends to enroll.
11. Disclosure of directory information.
12. Disclosure to the student.
13. Disclosure of the final results of a disciplinary hearing to a victim of an alleged crime of violence or non-forcible sex offense.
14. Disclosure of the final results of a disciplinary hearing involving an alleged crime of violence or non-forcible sex offense where a violation was committed.
15. Disclosure in a legal action between the institution and the student.

Record Type	Custodian
Academic	Registrar
Admissions	Director of Admissions
Athletics	Director of Athletics
Disciplinary	Director of Student Life
Financial	VP for Finance & Administration
Financial Aid	Financial Aid Officer
Placement	Career Development Officer
Veterans	Registrar

Challenge Procedures

After reviewing a record and deciding that some aspect of the record is incorrect, misleading, or otherwise in violation of the privacy rights of the individual, the student may challenge the contents of the record and attempt to resolve the problem through informal discussions with the custodian of the record.

If no agreement is reached in this manner, the student should file a request in writing to the President for a formal hearing to challenge the contents of the record. Hearing procedures will be established and conducted in a reasonable period of time with a decision rendered in writing by an impartial official of the institution.

Institutional Research

The University of Maine at Machias conducts institutional research for purposes that include predicting enrollment, modifying programs, and improving services. UMM students may be asked to participate in such research by completing a questionnaire or responding to an interview. All information gathered for the purposes of institutional research is held in strict confidence and no permanent record is kept as to participation.

Records and Location

The University maintains records in a variety of media and in several different locations as noted below. Only the academic record is maintained in perpetuity by the institution. Other records that are temporarily used during or shortly after the student's tenure at the institution will be disposed of at the discretion of the custodian, within the requirements of the law and University policy.

"Educational Records" does not include the individual files of faculty and administrative personnel, which are not accessible; campus law enforcement records, which are kept separate from educational records; and medical or psychological records available only to those providing services to the student.

*Associate
Programs*

ASSOCIATE PROGRAMS

GENERAL INFORMATION

The Associate in Science degree in Business Technology provides two areas of specialization:

*Small Business Management & Entrepreneurship
Recreation Management*

The programs of study emphasize liberal arts as well as professional studies. In addition, the curricula facilitate transition to UMM's baccalaureate programs for those students who desire to further their studies or seek higher credentials.

Small Business Management & Entrepreneurship

General Requirements

To graduate, students must earn a minimum of 60 credits and achieve a cumulative GPA of at least 2.00.

English/Liberal Arts Requirements 9

ENG 101 Composition 3

Select one: 3

ENG 113 Intro to Humanities

ENG 114 Topics in World Literature

ENG 117 Intro to Literary & Cultural Studies

ENG 118 Topics in Contemporary Literature

*Liberal Arts Elective from Music, Art, Theatre, or
Speech, Foreign Language 3*

Social Science Requirements

Economics Elective 3

Select one:

PSY 110 Intro to Psychology

SOC 114 Intro to Sociology

ANT 101 Cultural Anthropology

Mathematics Requirements 3

MAT 012 Competency in Beginning Algebra 0-3

MAT 102 Intermediate Algebra 3

Business Requirements 24

ACC 201 Financial Accounting 3

BUS 111 Intro to Business & Entrepreneurship 3

BUS 212 Business Communications 3

BUS 221 Business Law I 3

MAN 302 Small Business Management &

Entrepreneurship 3

MAR 101 Marketing & Entrepreneurship 3

Computer Applications electives 6

Business Electives 12

Select 3 Credits from Marketing (MAR),
Management (MAN), Accounting (ACC) or
Business (BUS) at or above the 300 level 3

Select 9 Hours from Marketing (MAR),
Management (MAN), Accounting (ACC),
and/or Business (BUS) (any level) 9

General Electives 6

Recreation Management

General Requirements

To graduate, students must earn a minimum of 64 credits and achieve a cumulative GPA of at least 2.00.

English/Speech Requirements 9

ENG 101 Composition 3

Select one: 3

ENG 113 Intro to Humanities

ENG 114 Topics In World Literature

ENG 117 Intro To Literary & Cultural Studies

ENG 118 Topics In Contemporary Lit

SPE 104 Public Speaking 3

Social Science Requirements 3

Select one: 3

PSY 110 Intro to Psychology

SOC 114 Intro to Sociology

PSY 212 Life Span I

Math Requirements 3-6

MAT 012 Competency in Beginning Algebra 0-3

MAT102 Intermediate Algebra 3

Business Requirements 9

ACC 201 Financial Accounting 3

MAR 101 Marketing & Entrepreneurship 3

Select 3 hours from: 3

REM 305 Recreation Computer Applications

CSE 115 Business Spreadsheet Applications

CSE 118 Database Applications

Recreation Requirements 30

REM 111 Freshman Recreation Seminar 1

REM 112 Recreation & Leisure Exploration 2

REM 115 History & Philosophy of Recreation 3

REM 121 Outdoor Recreation I 3

REM 122 Outdoor Recreation II 3

REM 124 Recreation Safety & First Aid 3

REM 201 Leisure Activities 3

REM 202 Recreational Sports Methods 3

REM 225 Leadership & Group Dynamics 3

REM 226 Recreational Program Planning 3

Recreation Management Elective 3

Cooperative Education Requirements	3
COE 201 Cooperative Education I	3
Physical Education Requirements	4
PHE 105 Personal Wellness	2
Two Additional Hours of Physical Education beyond the University Core	2
General Elective	3

*Baccalaureate
Programs*

BACCALAUREATE PROGRAMS

GENERAL INFORMATION

The Bachelor of Arts, Bachelor of Science, and Bachelor of College Studies are the three baccalaureate degrees awarded at the University of Maine at Machias. The Bachelor of Arts degree is offered with the following majors:

Behavioral Science & Community Studies
Biology
English
History
Interdisciplinary Fine Arts

The Bachelor of Science degree is offered with the following majors:

Business & Entrepreneurial Studies
Elementary Education
Environmental Studies
Marine Biology
Middle Level Education
Recreation & Tourism Management
Secondary Education

The Bachelor of College Studies degree allows students to develop an individualized concentration in an area of interest to them.

Students in baccalaureate degree programs may also select minors from the following areas:

American Studies
Applied Anthropology
Art
Behavioral Science
Biology
Business Administration
Chemistry
Coaching
Creative Writing
Economics
English
Environmental Studies
History
Leisure Studies
Mathematics
Mental Health & Rehabilitation Technician
Music
Outdoor Recreation
Professional Writing
Psychology
Public Administration
Secondary Education
Women's Studies

UNIVERSITY CORE REQUIREMENTS

All baccalaureate degree candidates, regardless of their chosen academic programs, must meet certain general requirements. Each candidate must earn at least 120 credits prior to graduation and have a cumulative grade point average (GPA) of at least 2.00.

Each baccalaureate student must also complete the University Core requirements. The core curriculum is designed to provide a foundation in general education along with an introduction to a wide variety of academic disciplines important for professional growth and lifelong learning.

It is often possible for a student to meet a program requirement and a core requirement at the same time. For example, students in the Recreation & Tourism Management program may use BUS 221 Business Law I to meet a core requirement in Humans in Social Context.

Statement of Purpose for the Core Curriculum

Our strong liberal arts core supports students as they develop the skills, knowledge, and values necessary for lifelong intellectual engagement, professional success, and responsible citizenship. The core experience provides students with opportunities to build an array of thinking and communication skills, while acquiring a broad base of knowledge from diverse disciplines and cultures. It promotes active learning and community engagement through scholarship and application of knowledge. The core fosters critical thinking, creativity, integrity and flexibility. The core experience complements each program of study so that students graduate from UMM ready to live full and interesting lives.

I. COMMUNICATION SKILLS 6 CR

- (a) ENG 101 Composition
- (b) SPE 104 Public Speaking

II. FINE ARTS 4 CR

Select from at least two of the following areas: art, music, theater, and/or creative writing. At least one credit must be taken in studio or performing arts.

III. HISTORICAL AND CULTURAL PERSPECTIVES 12 CR

- (a) HTY 115 World History I
- (b) HTY 116 World History II
- (c) *Interpreting Literature and the Arts: Select one of the following, but not the same course chosen for section (d) below.*
 - ENG 113 *Intro to Humanities*
 - ENG 114 *Topics in World Literature*

ENG 117 *Intro to Literary & Cultural Studies*
ENG 118 *Topics in Contemporary Literature*

(d) *Cultural Perspectives*: Select one of the following, but not the same course chosen for section (c) above.

ANT 101 Cultural Anthropology
ART 201 Art History I
ART 202 Art History II
ASL 101 Intro to Sign Language
BUS 334 International Business
ENG 113 Intro to Humanities
ENG 114 Topics in World Literature
ENG 224 Studies in World Literature
HON 220 Soliya
MUS 312 Music History I
MUS 313 Music History II
Foreign language

Non-Western history

IV. HUMANS IN SOCIAL CONTEXT 6 CR

Select one course each from two different areas listed below, for a total of two courses.

Behavioral Sciences

PSY 110 Intro to Psychology

Social Sciences

ANT 101 Intro to Anthropology
SOC 114 Intro to Sociology
SSC 203 Contemporary Social and Political Issues
SSC 210 Human Sexuality
WST 110 Intro to Women's Studies

Political and Economic Studies

ECO 101 Evaluating Economic Choices
ECO 201 Macroeconomics
ECO 202 Microeconomics
POS 215 American National Government

Business Studies

BUS 221 Business Law I
BUS 222 Business Law II
MAN 301 Management
MAN 302 Small Business Management & Entrepreneurship
MAN 318 Human Behavior in Organizations
MAR 101 Marketing & Entrepreneurship

Ethics and Philosophy

PHI 101 Intro to Philosophy
PHI 201 Ethics
PHI 212 Topics in Philosophy

V. SCIENCE AND MATHEMATICS

(a) *Scientific Inquiry*

3-4 CR

Select one of the following:

BIO 111 *General Zoology*
BIO 112 *General Botany*
CHY 101 *Chemistry I*
ENV 103 *Oceanography*
MTR 101 *Meteorology*
PHY 111 *Physics I*

(b) *Mathematical Literacy*: Students must demonstrate competency in pre-college math in one of the following ways:

1. Complete a high school course beyond Intermediate Algebra, excluding geometry.
2. Score at least 480 on SAT math exam, or at least 20 on ACT math exam.
3. Place beyond Intermediate Algebra on UMM math placement exam.
4. Complete UMM MAT 102 course.
5. Score 50 or better on CLEP College Mathematics or College Algebra exam taken after 7/1/2001, or 500 or better on same exam taken before that date.
6. Transfer a math course having intermediate or college algebra as a prerequisite from a regionally accredited college.

(c) *Select one of the following:*

3-4 CR

MAT 105 *Practical Math for a Contemporary World*
MAT 107 *Structure of Arithmetic I*
MAT 108 *Structure of Arithmetic II*
MAT 110 *Finite Math*
MAT 113 *Intro to Statistics*
MAT 122 *Precalculus*
MAT 126 *Calculus I*
MAT 127 *Calculus II*
MAT 215 *Applied Statistics*

VI. PERSONAL WELLNESS

2 CR

PHE 105 Personal Wellness

VII. WRITING REQUIREMENTS

All students are required to participate in an academic writing intensive experience beyond ENG 101. In recognition of the importance of writing in all disciplines, the faculty have infused writing intensive coursework throughout the curriculum.

Students are also required to take an advanced level writing course, which is built into the curriculum of each degree program.

VIII. SERVICE REQUIREMENT

As a public institution of higher education, UMM has a responsibility to prepare students not only for their future careers, but also for their obligations as citizens in their communities and in the world. In addition to fostering students' intellectual development, UMM is also

dedicated to the idea that students should develop ethically and socially, becoming responsible citizens. Students engage in service in several ways:

Program-Specific Service Options are designed into the required curriculum in certain degree programs.

Community Service is documented voluntary work performed over an extended period of time that has use for the community and would not be done through other means.

Service-Learning Courses, while incorporating a community service component, link the service to the course content and learning objectives. Thus service-learning courses link theory with practice in an experiential learning activity, allowing students to deepen their understanding of the curriculum. Faculty and students collaborate with community agencies to provide needed services to the non-campus community.

Note: Honors Seminars (HON 303) can be used to fulfill degree requirements in any appropriate area. Any student with a 3.00+ GPA is eligible to take HON 303, which may be repeated for credit.

BACHELOR OF ARTS

UMM offers the Bachelor of Arts degree with majors in

Behavioral Science & Community Studies

Biology

English

History

Interdisciplinary Fine Arts

Programs are designed to develop the skills necessary to learn actively, think clearly and creatively, work independently and collaboratively and communicate precisely. Intensive work in their major will prepare students for immediate employment or graduate studies, or provide personal enrichment.

To complete the Bachelor of Arts degree programs listed above, students must satisfy both the University Core requirements and the requirements in a major field. Students must accumulate a minimum of 120 credits with a minimum cumulative Grade Point Average of 2.00.

Behavioral Science & Community Studies Major

The Behavioral Sciences & Community Studies Major is an interdisciplinary program, drawing from anthropology, psychology, sociology, natural sciences, the arts, and humanities. Students explore human community and learn how to understand, manage, and promote change - change in their lives, change in society, and global change.

Students must complete a concentration in either Applied Anthropology or Applied Psychology.

Career Options

The Behavioral Science & Community Studies major can prepare the student for a career in teaching, research, social work, health sciences, advertising, marketing, personnel and business management, public administration, conflict mediation, drug counseling, and a variety of entry-level positions in service agencies. Career prospects for graduates in Behavioral Science & Community Studies are further enhanced because the human and social service field continues to be a growing one.

Students can enter some positions with a bachelor's degree, whereas other positions require graduate or professional training. The Behavioral Science & Community Studies faculty is committed to assisting students in planning a program of study that meets their career objectives.

General Requirements

To graduate, students must earn a minimum of 120 credits and achieve a cumulative GPA of at least 2.00. Students must meet all University Core requirements in addition to program and concentration requirements. The University Core requirements may be met in part by certain Behavioral Science program requirements. For example, all Humans in Social Context, requirements are completed in this manner.

Core Science & Math Requirements 7-8

BIO 111 General Zoology 4

Select one:

MAT 113 Intro to Statistics OR 3

MAT 215 Applied Statistics 4

Required Courses: Theory & Perspective 18

CMY 101 Intro to Community Studies 3

ANT 101 Cultural Anthropology 3

PSY 110 Intro to Psychology 3

SOC 114 Intro to Sociology 3

PHI 201 Ethics 3

Economics elective 3

Foreign Language elective 3

Required Courses: Application 16

ANT 201 Physical Anthropology OR 3

PSY 102 Personal Growth 3

PSY 214 Psychology of Prejudice OR 3

HON 220 Soliya 3

COE 313 Community Experience 3

SSC 320 Research Methods and Design 4

BEH 450 Senior Seminar 3

Applied Anthropology Concentration 18

Theory & Perspective

ANT 212 Environmental Anthropology 3

OR

ANT 215 Applied Anthropology: Special Topics 3

ANT 311 Archaeology & Maine Prehistory 3

ANT 330 Sociocultural Models 3

Application

GIS 230 Intro to Geographic Information Systems 3

ANT 313 Political Ecology 3

Elective 3

Choose one three-credit elective from any of the following areas: Anthropology, Community Studies, Geographic Information Systems, Sociology, Documentary Studies, Diversity, Archaeology, Soliya, Geography, Human Behavior, Society, Culture, History of the Social Sciences, Decision Making, Organizations, Maine Studies, Native American Studies, Criminal Justice, Gender, Women's Studies

Applied Psychology Concentration **18 cr**

Theory & Perspective

PSY 212	Lifespan I OR	3
PSY 324	Lifespan II	
PSY 320	Learning & Memory	3
PSY 322	Physiological Psychology	3
PSY 311	Social Psychology	3

Application

PSY 211	Intro to Behavioral & Community Mental Health Systems	3
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Elective 3

Choose one three-credit elective from any of the following areas: Anthropology, Community Studies, Geographic Information Systems, Sociology, Documentary Studies, Diversity, Archaeology, Soliya, Geography, Human Behavior, Society, Culture, History of the Social Sciences, Decision Making, Organizations, Maine Studies, Native American Studies, Criminal Justice, Gender, Women's Studies

Biology Major

Biology is one of the traditional liberal arts; it informs us about ourselves, the dynamics of the natural world around us, and how we interact with our environment. In so doing, biology complements the other liberal arts programs as a context for human endeavors. Biology provides the basis of knowledge in the areas of medicine, agriculture, psychology, and ecology. Studies of nature and natural phenomena have long been the inspiration for works of art, literature, and music. At the same time, rapid advancements in biotechnology affect nearly every facet of our lives from the foods we eat and the drugs we take, to the fibers that are used to make our clothes. With our increasing ability to manipulate the genetic structure of humans and other organisms, as well as the structure and composition of entire ecosystems, comes an increased responsibility for all citizens to act in an informed manner.

Within that context, the major objectives of the B.A. in Biology at UMM are to:

- (1) provide a broad and substantive training in scientific inquiry appropriate for students seeking careers in the biological sciences or in secondary education immediately following graduation;
- (2) provide rigorous training for students planning to further their education in professional studies or graduate school; and
- (3) allow sufficient flexibility to encourage students to pursue a concentration, a minor, or a second major.

Students will study biological systems at the level of the cell, the organism, and the ecosystem. Courses in mathematics, physics, and chemistry will enhance

students' understanding of the physical laws that govern the activities of living organisms. All coursework is enhanced by extensive study in the laboratory and in the field with emphasis on hypothesis formulation and testing, and experimental design.

All students in the biology major are required to complete 57 credits of program requirements. A highlight of these requirements is the opportunity to participate in a Senior Thesis that allows students to do an in-depth study of an area of particular interest to them. Alternatively, students may enroll in a Senior Seminar that explores advanced topics in biology based on a student's previous training. Students may elect additional coursework to complete either a Pre-professional or a Field Biology concentration. Biology courses required in either concentration will fulfill biology electives in the program requirements.

UMM's remarkable location on the coast of Maine endows the program with an unusual richness in experiences for field studies or independent studies in the surrounding forests, lakes, rivers, and coastal environments, such as the Indian River Field Station. Additional opportunities in marine research and/or outreach exist at UMM's field station at the nearby Black Duck Cove facility, operated by the Downeast Institute for Applied Marine Research and Education.

Career Options

With its opportunity for student-based research, the biology major is particularly suitable for those interested in more advanced study in biology or in professional training. The successful graduate is well prepared to enter the public or private sector as a research assistant or technician in a variety of field and laboratory settings where a solid scientific background is essential. Students completing the concentration in Field Biology will be well suited for a variety of fisheries, wildlife, and naturalist positions with government or private agencies. The pre-professional concentration, in addition to preparing students for entrance into health-related fields, provides the successful graduate with the fundamental background needed for any of the general biology career options or continued study in graduate school. Graduates of science programs who have also completed the requirements for a secondary education minor are in high demand. With the addition of the appropriate minor, graduates may also choose to pursue a career in scientific writing or illustration.

General Requirements

All University Core requirements must be met in addition to the Biology program requirements. Note that completion of some courses within the major, such as in mathematics, will also fulfill Core requirements.

A minimum cumulative GPA of 2.00 in the degree program requirements is necessary for graduation. This

GPA must be achieved by the completion of a total of 60 credits. If the student fails to maintain this average in subsequent semesters, a warning may be issued. A student may lose matriculated status if the average remains below 2.0 after the completion of another 12 credits. Students may petition to be readmitted to the program.

Program requirements	33 cr
BIO 111 General Zoology	4
BIO 112 General Botany	4
BIO 222 Cell Biology	4
BIO 245 General Ecology	4
BIO 265 Genetics	4
BIO 340 Evolution	3

Select:

<i>BIO 401-403 Senior Thesis and BIO electives at 200 level or higher</i>	3 7
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or:

<i>BIO 404-406 Senior Thesis in Research and BIO electives at 200 level or higher</i>	6 4
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or:

<i>BIO 410 Senior Seminar in Biology and BIO electives at 200 level or higher</i>	3 7
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Cognate course requirements 24 cr

CHY 101 General Chemistry I	4
CHY 102 General Chemistry II	4
CHY 221 Organic Chemistry I	4
MAT 126 Calculus I	4
PHY 111 Physics I	4

Select one from:

<i>MAT 127 Calculus II</i>	4
<i>PHY 112 Physics II</i>	4

Total Program Requirements 57 cr

A student may select one of the concentrations below. A concentration is not required to complete the Biology degree.

Pre-Professional Concentration 28 cr

The pre-professional concentration is designed for students planning to pursue careers in medicine, veterinary medicine, dentistry, optometry, pharmacy, or other professions requiring a rigorous background in the life and physical sciences. Courses within this concentration will prepare students to successfully complete entrance exams required by professional schools. Students are encouraged to meet early and often with their advisor to prepare other aspects of their education such as internships, workshops, and volunteer activities in their desired field.

BIO 221 General Microbiology	4
BIO 323 Comparative Vertebrate Anatomy and Physiology	5
BIO 350 Developmental Biology	3
CHY 222 Organic Chemistry II	4
CHY 322 Biochemistry	4
MAT 127 Calculus II	4
PHY 112 Physics II	4

Since some of the above courses will also meet program requirements, the pre-professional concentration requires only an additional 17 to 20 credits.

Field Biology Concentration 27 cr

The Field Biology concentration is particularly appropriate for students wishing to work for one of numerous federal or state natural resource agencies or for private conservation organizations. Students are strongly encouraged to participate in paid or unpaid internships or cooperative education experiences in addition to the required coursework.

BIO 333 Plant Ecology	4
BIO 355 Conservation Biology	4
BIO 375 Population and Community Ecology	3
BIO 315 Experimental Design & Analysis for Biologists	4

CHY 234 Environmental Chemistry	4
MAT 215 Applied Statistics	4

Select a systematics course (dealing with classification), i.e.

BIO 212 Ornithology	4
BIO 216 Mammology	4
BIO 221 General Microbiology	4
BIO 223 Marine Mammals and Pelagic Birds	4
BIO 227 Invertebrate Zoology	4
BIO 229 Plant Taxonomy	4
BIO 313 Ichthyology	4

Since some of the above courses also meet program requirements, the Field Biology concentration requires only an additional 20 to 23 credits.

General Electives

Students are encouraged to consult with their advisors in selecting elective courses in and out of biology with future career plans and personal interests in mind.

English Major

The University's English program takes its shape from its geographical situation. Remote and beautiful, the Downeast coast has long been a place for artists to live and work. Writers such as Ruth Moore, Amy Clampett, Delmore Schwartz, R. P. Blackmur, Frederick Busch,

Heather McHugh, and Samuel Taylor have pursued their craft here. The English program at the University of Maine at Machias, mindful of this tradition of writing on the coast, tries to provide an atmosphere of unrushed creativity. Our faculty believes in mentoring its students and at the same time encouraging independence and ingenuity. The English faculty prizes initiative, thoughtfulness, and originality, and tries to communicate these values to its students. Students should feel the energy of living in a supportive, creative community that they help to make and sustain.

English majors will develop competence in the field of literature and major literary figures, strong critical thinking skills, active learning habits, effective oral and written communication skills, and a more global perspective.

Career Options

In the past few years, graduates in English have pursued careers in law, education, library science, film, theatre, gallery and art management, social work, writing, and business. By honing students' skills in thinking, communication, collaboration, and creativity, the English major offers students a wide variety of employment possibilities after graduation, while providing preparation for advanced study in English and in many other fields.

General Requirements

The English major requires a minimum of 42 credits, with a GPA of at least 2.25 in English program requirements. All students take the general program requirements and select either the creative writing, literary studies, or book arts concentration.

In addition to the English major requirements, students must complete the University Core. Note that some Core requirements may be met by certain English requirements. To graduate, students must earn a minimum of 120 credits and achieve a cumulative GPA of at least 2.00

Program Requirements	24 cr
ENG 117 Intro to Literary & Cultural Studies	3
WRI 207 Studies in Composition and Grammar	3
ENG 224 Studies in World Literature	3
WRI 211 Beginning Creative Writing	3
ENG 345 The Book, Culture, and Knowledge	3
ART 216 Book Arts	3
<i>Select one course from:</i>	<i>3</i>
ENG 231 <i>Techniques of Poetry</i>	
ENG 232 <i>Techniques of Fiction</i>	
ENG 233 <i>Techniques of Creative Nonfiction</i>	
<i>Select one additional literature course at or above 300 level.</i>	<i>3</i>
Book Arts Concentration	18 cr
ART 217 Papermaking	3
ENG 242 Periodical Production	3

ART 326 Book Arts II	3
ENG 441 Writing & Publishing Seminar I	3
ENG 442 Writing & Publishing Seminar II	3
<i>Select one course from:</i>	<i>3</i>
WRI 226 <i>Copyediting & Proofreading</i>	
ART 214 <i>Printmaking</i>	
ART 214 <i>Graphic Design</i>	
ART 214 <i>Illustration</i>	

Creative Writing Concentration	18 cr
<i>Select 6 additional credits in creative writing at or above 200 level.</i>	<i>6</i>
<i>Select 6 additional credits in creative writing at or above 300 level.</i>	<i>6</i>
ENG 441 <i>Writing & Publishing Seminar I</i>	3
ENG 442 <i>Writing & Publishing Seminar II</i>	3
EDU 490 Student Teaching may be substituted for Seminar II for students completing a minor in Secondary Education.	

Literary Studies Concentration	18 cr
ENG 325 British Literature	3
ENG 327 American Literatures	3
<i>Select 6 additional credits in literature at or above 200 level.</i>	<i>6</i>
ENG 441 <i>Writing & Publishing Seminar I</i>	3
ENG 442 <i>Writing & Publishing Seminar II</i>	3
EDU 490 Student teaching may be substituted for Seminar II for students completing a minor in Secondary Education.	

History Major

History—an ancient field of study with all of human experience as its subject—acquaints us with an extraordinary array of cultures, societies, and individuals. It also provides us tools with which to order and examine that array. We approach history as a method of inquiry to be practiced rather than as a body of knowledge to be mastered. The history major is for students who wish to deepen their understanding of the human past and its impact on the present while developing skills of reading, writing, research, and analysis. Beyond the introductory course sequence in World History, courses are classified by area: American, European, and World. Each area features two or more surveys and a variety of upper-level courses devoted to more specialized topics or themes. The major culminates with a class in Historiography. Faculty members have diverse interests and actively encourage students in their independent investigations.

Career Options

The history major prepares graduates for a wide range of future study and employment. Students graduating with a major in history may continue historical practice by going to graduate school, working in archives

or museums, or, if they have a minor in secondary education, teaching high school. Many will go on to other fields such as law, journalism, government, or business, that require developed skills of research, analysis, and writing, and that reward insights into how individuals and societies function, interact, and change.

Note: History majors who intend to teach should be aware that State of Maine certification requires certain content courses that may not be required by either the history major or the secondary education minor. Students should consult with their advisors.

General Requirements

In addition to the History major requirements, students must complete the University Core. Note that some Core requirements may be met by certain History requirements. To graduate, students must earn a minimum of 120 credits and achieve a cumulative grade point average of at least 2.00.

Program Requirements 39 cr

History majors must take at least 39 credits in history, including the following:

- HTY 115 World History to 1500
- HTY 116 World History since 1500
- HTY 400 Historiography

Students must take 30 credits from among the following, including at least 6 credits in each area:

American History

- HTY 201 American History to 1865
- HTY 202 American History since 1865
- HTY 221 History of Canada
- HTY 301 Maine and Local History
- HTY 307 American Economic History
- HTY 332 History of American Women
- HTY 341 Native American History
- HTY 342 African American History
- HTY 351 Topics in American Colonial History
- HTY 352 Topics in 19th-Century American History
- HTY 353 Topics in Modern American History

European History

- HTY 225 History of Early Modern Europe
- HTY 226 History of Modern Europe
- HTY 311 Medieval Europe
- HTY 316 The Age of the French Revolution
- HTY 324 World War I and the 20th Century
- HTY 326 History of England
- HTY 331 History of Women in Early Modern Europe
- HTY 340 History of the Social Sciences
- HTY 345 The Book, Culture & Knowledge

World History

- HTY 250 History of China
- HTY 252 History of South Asia
- HTY 253 History of Southeast Asia
- HTY 254 History of Japan
- HTY 312 Intro to Environmental History
- HTY 318 The Age of Imperialism
- HTY 320 Topics in World History
- HTY 333 Women in the 20th-Century World
- HTY 360 History of World Religions
- HTY 371 U.S. Foreign Policy and the World

Interdisciplinary Fine Arts Major

UMM's B.A. degree in Interdisciplinary Fine Arts adds new twists to traditional arts programs. Individualized learning plans, intense focus on one area of the arts, and interdisciplinary interactions among many arts characterize the program. Students concentrate in book arts, creative writing, music, theatre, or visual arts but they learn about all the arts. The program includes rich interactions with all teachers in the fine arts areas and students in the program. The program is also heavily experiential. Students produce their own books, concerts, plays, gallery exhibits, magazines, and radio shows. They learn how to survive in the world of art. At the same time, the B.A. curriculum helps develop skills associated with the traditional liberal arts: thinking, communication, collaboration, and creativity.

Career Options

Studies have shown that when you learn about more than one art, you hone skills in communication and problem solving. These skills are in high demand in today's job market. Through an interdisciplinary approach, a student can become an artist and an arts manager, a writer and on-line graphic designer, a musician and a teacher, or an actor and an art therapist. With a B.A. degree, students can also pursue careers such as law, counseling, or library science. They can undertake advanced study in the art area of their choice.

General Requirements

Students who major in Interdisciplinary Fine Arts must complete University Core requirements, program requirements, and the requirements in one concentration (18-21 credits). To graduate, students must earn at least 120 credits and achieve a cumulative grade point average of at least 2.00.

Program Requirements 33 CR

Discovery & Experience

Select one: 3

ART 101 2-D Fundamentals of Art 3

ART 102	Art Fundamentals: 3-D	3
MUS 119	Fundamentals of Music	3
THE 101	Intro to Theatre	3
WRI 211	Beginning Creative Writing	3
	Foreign Language	6
<i>Integration & Involvement</i>		
FIA 103	First-Year Seminar	3
FIA 213	Sophomore Seminar	3
FIA 323	Junior Seminar	3
FIA 400	Senior Seminar	3
<i>Application & Culmination</i>		
FIA 460	Senior Project	3

Book Arts Concentration 21 cr

ART 216	Book Arts I	3
ART 217	Papermaking	3
ART 326	Book Arts II	3
ENG 242	Periodical Production	3
<i>Select one:</i>		
WRI 226	Copyediting & Proofreading	3
ART 214	Graphic Design	3
ART 214	Illustration	3
ART 218	Printmaking	3
ENG 441	Writing & Publishing Seminar I	3
ENG 442	Writing & Publishing Seminar II**	3

**Students in the Book Arts concentration will also take FIA 400 Senior Seminar and complete the FIA 460 Senior Project.

Creative Writing Concentration 18 cr

ART 216	Book Arts I	3
WRI 471	Advanced Creative Writing	3
<i>Select 6 credits from the following:</i>		
ENG 231	Techniques in Poetry	3
ENG 232	Techniques in Fiction	3
ENG 233	Techniques in Creative Nonfiction	3
<i>Select 6 credits from the following:</i>		
WRI 308	Creative Nonfiction Writing: Intermediate	3
WRI 309	Topics in Intermediate Creative Writing	3
WRI 352	Fiction Writing: Intermediate	3
WRI 353	Poetry Writing: Intermediate	3
WRI xxx	Screenwriting	3

Music Concentration 18 cr

MUS 115	Fundamentals of Music	3
MUS 214	Music Theory I	3
<i>Select one of the following:</i>		
MUS 312	Music History I	3
MUS 313	Music History II	3
<i>Select 6 credits of applied music from different areas (including keyboard, voice, and 1 additional area):</i>		
MUS 101/301	Chorale	6
MUS 103	Applied Music: Private Lessons	3

MUS 107/207	Applied Music: Performance	3
MUS 307/407	Groups	3
<i>Select 3 credits from the following:</i>		
MUS 211	Topics in Music	3
MUS 223	Songwriting	3
MUS 312	Music History I	3
MUS 313	Music History II	3
MUS 324	Music Theory II	3

Theatre Concentration 18 cr

THE 102	Fundamentals of Acting	3
THE 219	Performance Workshop I	3
THE 219	Stagecraft & Design I	3
<i>Select one:</i>		
THE 319	Performance Workshop II	3
THE 319	Stagecraft & Design II	3
<i>Select one:</i>		
THE 419	Performance Workshop III	3
THE 419	Stagecraft & Design III	3
ENG 315	Studies in Drama	3
<i>Select one:</i>		
Any Theatre course at or above 200-level		
ENG 315	Studies in Drama	3

Visual Arts Concentration 18 cr

ART 201	Art History I	3
ART 202	Art History II	3
ART 210	Drawing I	3
ART 211	Painting I	3
ART 220	Sculpture	3
ART 320	Life Drawing	3

Self-Designed Concentration

Students may, in consultation with their advisor, propose an Interdisciplinary Fine Arts concentration of their own design. The proposal must be approved by the advisor, a committee of three Interdisciplinary Fine Arts faculty, and the chair of the Arts & Letters Division. Students must complete the proposal by the time they have completed 45 credits toward their degree.

A self-designed concentration must include at least 18 credits, in addition to FIA 400 and FIA 460, and a minimum of 12 credits at or above the 200 level, of which at least 6 credits must be at the 300 or 400 level.

BACHELOR OF SCIENCE

UMM offers the Bachelor of Science degree with majors in

Business & Entrepreneurial Studies
Elementary Education
Environmental Studies
Marine Biology
Middle Level Education
Recreation & Tourism Management
Secondary Education

To complete the Bachelor of Science degree programs listed above, students must complete the University Core, the general program requirements for their major field, and the specific requirements for their chosen concentration or specialization within their major program. Students must earn a minimum of 120 credits with a minimum cumulative Grade Point Average of 2.00.

Business & Entrepreneurial Studies Major

The Business & Entrepreneurial Studies program emphasizes professional skills and entrepreneurial values. Entrepreneurship infuses and inspires the curriculum, from introductory business and marketing courses through capstone courses in entrepreneurship and real world experience.

Program Requirements **60-63 cr**

In addition to the major requirements, students must complete the University Core. Note that some Core requirements may be met by certain Business & Entrepreneurial Studies requirements. To graduate, students must earn a minimum of 120 credits and achieve a cumulative grade point average of at least 2.00.

ACC 201	Financial Accounting	3
ACC 202	Managerial Accounting	3
ACC 212	Financial Accounting II	3
BUS 111	Intro to Business	3
BUS 221	Business Law I	3
BUS 222	Business Law II	3
BUS 334	International Business	3
BUS 400	Business Administration Senior Seminar	3
COE 201	Cooperative Education	3
ECO 201	Macroeconomics	3
ECO 202	Microeconomics	3
MAN 302	Small Business Management & Entrepreneurship	3
MAN 318	Human Behavior in Organizations	3
MAN 321	Operations Management	3

	OR	
MAR 406	Marketing Research	3
MAN 325	Finance	3
MAN 406	Entrepreneurship	3
MAR 101	Marketing & Entrepreneurship	3
MAT 113	Intro to Statistics	3
WRI 208	Technical Writing OR	3
BUS 212	Business Communications	
CSE 110	Word Processing Competency	0-3
<i>Select one:</i>		3
ANT 101	Cultural Anthropology	
PSY 110	Intro to Psychology	
SOC 114	Intro to Sociology	

Self-Designed Concentration **15 cr**

A student's Self-Designed concentration must be formally approved by Business faculty. A Self-Designed concentration must be composed of 15 credit hours, including 3 hours of computer applications.

Teacher Preparation Programs

Bachelor of Science degree students may major in Elementary Education (emphasis on grades K-6), Middle Level Education (focus on grades 7 and 8), or Secondary Education. Bachelor of Arts degree students majoring in English, history, or the sciences may complete a Secondary Education minor that lead to certification in their fields, grades 7 through 12.

Students in the teacher preparation programs complete the University Core, liberal arts program and concentration requirements, and a sequence of professional courses. In addition, Elementary Education majors select an interdisciplinary concentration in the humanities, history/social science, or science/mathematics. Middle Level Education majors select from concentrations in English, History/Social Science or Science. Secondary Education majors choose from concentrations in Art, English, Life Science, Mathematics, Physical Science and Social Studies.

Emphasis on Holistic Education

We believe that knowledge and understandings are socially constructed and that knowledge is actively acquired. Teachers must first and always be learners. Neither knowledge nor quality of performance is static, and it is important that students not only acquire knowledge and skills, but that they also form "habits of mind" that ensure ongoing inquiry and reflection that can support a lifetime of artful teaching. Artful teachers understand that good practice is based on sound educational theory and that as professionals, they must engage in ongoing self-directed professional development. We want our students to be passionate

about learning and curious about things around them, so that they can model that passion and curiosity for their students.

To this end, our teaching must be constructivist, holistic, collaborative, learner-centered, and inquiry-based so that our students might teach in ways that they've been taught. Our classes must actively engage them and focus on how students learn as well as on what they learn. We must show them how to build and maintain learning communities. Our assignments must challenge them to synthesize information from multiple disciplines and various classes—and put it to use. Our objectives for their learning must include helping them form their own learning goals. Our assessments must invite and facilitate their self-assessment. And our responses must help them to reflect further on what they've learned and direct them to further inquiry and learning. Their education programs must include a variety of experiences and an introduction to disciplines that will spark further interest. We are dedicated to teaching in ways that our students can emulate in their own teaching.

In addition, faculty in the various disciplines draw on and contribute to the region's unique human and natural resources, making it possible for students to synthesize experiences within and beyond university classrooms. Education faculty often serve as a resource for regional schools and teachers, while local schools and teachers offer students rich opportunities, not only to practice specific teaching skills, but also to consider how particular philosophies and theories impact, and may be evidenced in, everyday practice.

Education programs are reviewed by the State of Maine every five years. UMM's education program was reviewed in the Spring of 2005 and received a full five-year unconditional approval.

Pluralism

It is the philosophy of UMM's education program that curricula and courses provide a balanced and thoughtful approach to gender, race, ethnicity, and cultural diversity. Class presentations, discussions, assignments, evaluations, and texts incorporate, when appropriate, diverse histories, traditions, values, and behaviors. These multicultural components reflect local, national, and global human experiences and convey a sense of affirmation and appreciation of similarities and differences among people.

Acceptance into Upper-Division Teacher Preparation Courses

For acceptance into upper-division study in teacher preparation courses, students must have a minimum grade point average (GPA) of 2.50 for the following subjects. No grade in these subjects can be lower than C-.

EDU 112 School and Community

Select one:

PSY 212 *Lifespan I*

PSY 324 *Lifespan II*

ENG 101 Composition

ENG 113/4/7/8 Intro to Literature

HTY 115 World History I

HTY 116 World History II

Lab Science from Education Core

Additional Requirements

Demonstrated competence in Intermediate Algebra
(see Core Requirements above)

Keyboarding proficiency

Successful completion of writing sample

Faculty interview

Successful Completion of Praxis I Exam

Opportunities for Field Experiences

Field experiences are a major emphasis in all teacher preparation programs. Students work with pupils in schools each year as part of their course work, and complete the equivalent of a full semester of student teaching in their senior year.

Instructional Technology

Education students have access to several networked computer labs where they gain experience using and evaluating a variety of the latest technologies. Students in all UMM Education programs take EDU 213 Teaching, Learning and Technology.

Praxis

Prospective teachers should note that Maine law requires all applicants for teacher certification to pass the Praxis I & II exams. Praxis I must be passed with a total of 526 points. Students must pass Praxis I before beginning advanced-level education courses. UMM's pass rate in 2006-2007 was 87 percent. Students must also pass Praxis II in the appropriate content area before Maine state certification.

Students should consult their advisor for further details and any subsequent changes to Maine certification requirements.

Certification Requirements

The Education program is reviewed by the State every five years, and teacher certification is granted by the State with the successful completion of UMM's approved programs and qualifying Praxis scores. When necessary, programs will be adjusted to meet Maine certification requirements.

Minimum Cumulative GPA Requirements for Student Teaching:

2.50 Overall

2.50 Concentration

2.50 Professional Coursework (with no grade below C-)

Elementary Education Major

The Elementary Education major is interdisciplinary and prepares students to understand young learners and teach in single-grade or multi-grade classrooms. Students complete the liberal arts requirements, in addition to the University Core; the professional requirements; and an interdisciplinary concentration for a total of 128-129 credits for the program.

Liberal Arts Requirements	36 cr
ENG 223 Children's Literature	3
ENV 111 Natural Resource Ecology	4
GEO 101 Intro to Geography	3
HTY 201 American History I	3
HTY 202 American History II	3
HTY 301 Maine and Local History	3
MAT 107 Structure of Arithmetic I*	3
MAT 108 Structure of Arithmetic II	3
WRI 207 Studies in Composition and Grammar	3

Select one biological science from: 4

BIO 110 Human Anatomy and Physiology
 BIO 111 General Zoology
 BIO 112 General Botany

Select one physical science from courses such as: 4

GEY 111 Physical Geology
 PHY 111 Physics I
 CHY 101 General Chemistry I
 MTR 101 Meteorology

* Students must also demonstrate competency in Intermediate Algebra (see University Core requirements).

Professional Preparation Requirements	45 cr
EDU 112 School and Community	3
PSY 212 Lifespan I	3
EDU 210 Educational Psychology	3
EDU 213 Teaching, Learning, and Technology	3
EDU 220 Elementary Social Studies Methods	3
SED 310 Dimensions of Exceptionality	3
EDU 332 Science Education Methods	3
EDU 334 Integrated Reading and Language Arts Methods (K-4)	3
EDU 344 Mathematics in the Elementary School	3
EDU 349 Integrated Reading and Language Arts Methods (5-8)	3
EDU 490 Student Teaching	15

Interdisciplinary Concentrations

Each student must select one area of concentration from the following options for additional study beyond

the requirements listed under the General and Professional Education sections for a total of 128-129 program credits.

Humanities Concentration	18 cr
6 credits of literature courses at or above 200 level	6
3 credits in advanced art or music course	3
3 credits in additional performing or studio arts	3
3 credits in humanities elective at or above 200 level	3
3 credits in History or Social Science elective	3

History/Social Science Concentration	18 cr
POS 215 American National Government	3
ECO 101 Evaluating Economic Choices	3

SSC 203 Contemporary Social and Political Issues is required unless chosen to fulfill General Requirements, in which case student must choose another humanities/social science course.

9 credits in history and/or social science, in addition to those chosen under General Requirements. At least two courses must be 200 level or above. Select from such courses as:

- ANT 101 Cultural Anthropology
- HTY 351 Topics in American Colonial History
- HTY 221 History of Canada
- HTY 400 Historiography
- SOC 114 Intro to Sociology

Science/Mathematics Concentration	17-18 cr
Science Credits	8

8 credits in science from at least two different areas, in addition to those chosen under General Requirements. Note prerequisites for specific courses. Select from courses such as:

- BIO 110 Human Anatomy and Physiology
 - BIO 111 General Zoology
 - BIO 112 General Botany
 - BIO 206 Intro to Marine Biology
 - CHY 101 General Chemistry I
 - ENV 105 Intro to Trees and Wildflowers of Maine
 - BIO 216 Mammalogy
 - BIO 217 Marine Mammals
 - ENV 112 Environmental Issues
- Special Topics courses offered in any of the sciences

Mathematics Credits 6
 6 credits in math in addition to those chosen under General Requirements. Note prerequisites for specific courses. Select from the following:

- MAT 105 Mathematics for a Contemporary World
- MAT 110 Finite Math
- MAT 113 Intro to Statistics
- MAT 215 Applied Statistics
- MAT 122 Precalculus

MAT 126 Calculus I
Math and Science Electives 3-4
 3-4 additional credits of science and/or math in addition to those chosen above.

Middle Level Education Major

Middle Level Education is a great career choice for students who want to work with children whose intellectual abilities are starting to blossom. UMM's Middle Level teacher education major is a vibrant program that provides majors the fundamental knowledge of the teaching methods appropriate for this age group, as well as hands-on experience with middle school students. The program's goal is to nurture teachers that will be not just well-prepared, but energetic, creative and inspirational.

Liberal Arts Requirements	36 cr
ENG 223 Children's Literature	3
ENV 111 Natural Resource Ecology	4
GEO 101 Intro to Geography	3
HTY 202 American History II	3
HTY 301 Maine and Local History	3
MAT 107 Structure of Arithmetic I*	3
MAT 108 Structure of Arithmetic II	3
SSC 203 Contemporary Social & Political Issues	3
WRI 207 Studies in Composition and Grammar	3

Select one biological science from: 4
BIO 110 Human Anatomy and Physiology
BIO 111 General Zoology
BIO 112 General Botany

Select one physical science from: 4
GEY 111 Physical Geology
PHY 111 Physics I
CHY 101 General Chemistry I
MTR 101 Meteorology

* Students must also demonstrate competency in Intermediate Algebra (see University Core requirements).

Professional Preparation Requirements	51 cr
EDU 112 School and Community	3
PSY 110 Intro to Psychology	3
PSY 324 Lifespan II	3
EDU 210 Educational Psychology	3
EDU 213 Teaching, Learning, and Technology	3
EDU 303 Reading, Writing & Study Skills in the Content Area	3
EDU 312 Social Studies Education & Practicum	3
EDU 344 Math in the Elementary School	3

EDU 349 Integrated Reading & Language Arts Methods (5-8)	3
EDU 351 Middle/Secondary Science Education Methods	3
SED 310 Dimensions of Exceptionality	3
EDU 450 Middle School Seminar	3
EDU 490 Student Teaching	15

Interdisciplinary Concentrations

Each student must select one area of concentration from the following options for additional study beyond the requirements listed under the General and Professional Education sections for a total of 128-129 program credits.

English Concentration	15 cr
6 credits of literature courses at or above 200 level	6
Select one:	3
<i>ENG 231 Techniques of Poetry</i>	
<i>ENG 232 Techniques of Fiction</i>	
<i>ENG 233 Techniques of Creative Non-Fiction</i>	
<i>HTY 201 American History I</i>	3
Select 3 credits of English elective	3

History/Social Science Concentration	15 cr
HTY 201 American History I	3
POS 215 American National Government	3
Select one:	3
<i>ENG 231 Techniques of Poetry</i>	
<i>ENG 232 Techniques of Fiction</i>	
<i>ENG 233 Techniques of Creative Non-Fiction</i>	
Select 6 credits of Humanities or Social Science electives	6

Science Concentration	14-16 cr
Select 6-8 credits of life science courses (from courses in biology and environmental studies)	6-8
Select 8 credits of physical science (from courses in chemistry, meteorology, geology, physics)	8

Secondary Education Major

Teacher education has a proud tradition in Downeast Maine. UMM graduates become enlightened teachers, drawing on a strong educational foundation in content and a knowledge of students and how they learn. Professors here model hands-on learning, and pass on an enthusiasm for knowledge that makes learning and teaching fun.

Professional Requirements	
EDU 112 School & Community	3
PSY 324 Lifespan II	3
EDU 210 Educational Psychology	3
EDU 213 Teaching, Learning & Technology	3

EDU 313	Curriculum Design & Program Evaluation	3
EDU 318	Evaluation in the Classroom	3
SED 310	Dimensions of Exceptionality	3
<i>Select one:</i>		3
EDU 345	<i>Secondary English Methods</i>	
EDU 347	<i>Secondary Social Studies Methods</i>	
EDU 348	<i>Middle/Secondary Math Methods</i>	
EDU 351	<i>Middle/Secondary Science Education Methods</i>	
EDU 460	Secondary Seminar	3
EDU 490	Student Teaching	15

Students must select one of the concentrations below:

Art Concentration 33 cr

ART 101	2-D Fundamentals of Art	3
ART 102	Art Fundamentals 3-D	3
ART 201	Art History I	3
ART 202	Art History II	3
ART 210	Drawing I	3
ART 211	Painting I	3
ART 214	Special Topics in Art	3
ART 216	Book Arts I	3
ART 218	Printmaking	3
PHI 212	Aesthetics	3
<i>Select one:</i>		3

- ART 212 Handbuilt Ceramics*
- ART 219 Photography*
- ART 220 Sculpture*
- ART 310 Drawing II*

English Concentration 36 cr

ENG 101	Composition	3
ENG 117	Intro to Literary & Cultural Studies	3
SPE 104	Public Speaking	3
WRI 211	Beginning Creative Writing	3
WRI 207	Studies in Composition & Grammar	3
<i>Select one:</i>		3

- ENG 231 Techniques of Poetry*
- ENG 232 Techniques of Fiction*
- ENG 233 Techniques of Creative Non-Fiction*

ENG 325	British Literature Survey	3
ENG 327	American Literatures	3
ENG 224	Studies in World Literature	3
ENG 212	Topics in Literature	3
ENG 315	Studies in Drama: Shakespeare	3
<i>Select one:</i>		3

- ENG 451 Chaucer*
- ENG 459 Major Literary Figures*

Life Sciences Concentration 39-40 cr

BIO 111	General Zoology	4
BIO 112	General Botany	4
<i>Select one:</i>		4-5

- BIO 210 Human Anatomy & Physiology*

BIO 222	<i>Cell Biology</i>	
BIO 323	<i>Comparative Vertebrate Anatomy & Physiology</i>	
BIO 245	General Ecology	4
BIO 265	Genetics	4
BIO 340	Evolution	3

Select one: 4

- BIO 212 Ornithology*
- BIO 216 Mammalogy*
- BIO 218 Herpetology*
- BIO 227 Invertebrate Zoology*
- BIO 229 Plant Taxonomy*
- BIO 313 Ichthyology*

CHY 101	General Chemistry I	4
CHY 102	General Chemistry II	4
MAT 215	Applied Statistics	4

Mathematics Concentration 38 cr

MAT 107	Structure of Arithmetic I	3
MAT 108	Structure of Arithmetic II	3
MAT 110	Finite Mathematics	3
MAT 118	History of Mathematics	3
MAT 122	Precalculus	4
MAT 126	Calculus I	4
MAT 127	Calculus II	4
MAT 200	College Geometry	3
MAT 200	Linear Algebra	3
MAT 215	Applied Statistics	4
MAT 315	Experimental Design & Analysis for Biologists	4

Physical Science Concentration 46-47 cr

CHY 101	General Chemistry I	4
CHY 102	General Chemistry II	4
CHY 221	Organic Chemistry I	4
CHY 234	Environmental Chemistry	4
ENV 103	Intro to Oceanography	3
GEY 111	Physical Geology	4

Select 3-4 credits of any earth science (GEY) course 3-4

MAT 122	Precalculus	4
MAT 126	Calculus I	4
MTR 101	Meteorology	4
PHY 111	Physics I	4
PHY 112	Physics II	4

Social Studies Concentration 36 cr

ECO 201	Macroeconomics	3
	OR	
ECO 202	Microeconomics	3
GEO 101	Introduction to Geography	3
HTY 115	World History I	3
HTY 116	World History II	3
HTY 201	American History I	3
	OR	
HTY 221	History of Canada	

HTY 202	American History II	3
HTY 223	Intro to Historical Studies	3
<i>Select one:</i>		3
HTY 318	<i>The Age of Imperialism</i>	
HTY 320	<i>Topics in World History</i>	
HTY 324	<i>World War I & 20th Century</i>	
HTY 333	<i>Women in the 20th Century</i>	
HTY 360	<i>History of World Religion</i>	
HTY 371	<i>US Foreign Policy & the World</i>	
<i>Select one:</i>		
HTY 225	<i>History of Early Modern Europe</i>	
HTY 226	<i>History of Modern Europe</i>	
HTY 311	<i>Medieval Europe</i>	
HTY 331	<i>History of Women in Early Modern Europe</i>	
POS 215	American National Government	3
	OR	
POS 216	State & Local Government	
PSY 110	Intro to Psychology	3
<i>Select one:</i>		3
SOC 114	<i>Introduction to Sociology</i>	
SOC 208	<i>Sociology of the Family</i>	
SOC 220	<i>Deviant Behavior</i>	
SOC 310	<i>Childhood & Society</i>	

Teaching Certification

Students completing a B.A. in English, the sciences, or history may choose to complete education requirements that lead to certification, grades 7-12. Students should take the initiative early in their college careers to form an informal advising relationship with one of the education faculty. Courses must be planned carefully to meet requirements for both major program and secondary education certification. (See Secondary Education Minor.)

Certification Only

For students who already hold appropriate bachelors degrees, UMM offers professional coursework leading to elementary (K-8) certification, as well as secondary (7-12) certification in the fields of English, history, life science, and mathematics.

Exact requirements for secondary certification in Maine vary according to the content area in which a student hopes to teach. Similarly, Maine has specific content requirements for elementary certification. Students must submit college transcripts to the Maine Department of Education for analysis. The State will return a listing of any “deficiencies.” Fingerprinting is required prior to this analysis, and students from outside the United States have an additional prerequisite. Maine certification is generally transferable to other locations. Students should consult an advisor from the education faculty for specifics about this process.

To be eligible for certification, a prospective teacher is normally required to have a minimum of 60 liberal arts credits. Certification-only students may often remedy specific content-area deficiencies at the same time that they are satisfying professional requirements.

Students must successfully pass the Educational Testing Service’s Praxis exams and maintain a GPA of 2.5 in professional coursework. Students completing certification requirements after completion of the baccalaureate degree apply directly to the State for certification.

Elementary (K-8) Certification 45 cr

In addition to meeting any content deficiencies identified in the transcript analysis, students who have already earned baccalaureate degrees and are preparing for elementary teaching certification should take the following:

EDU 112	School and Community
PSY 212	Lifespan I
EDU 210	Educational Psychology
EDU 213	Teaching, Learning, and Technology
SED 310	Dimensions of Exceptionality
EDU 220	Elementary Social Studies Methods
EDU 332	Science Education Methods
EDU 334	Integrated Reading and Language Arts Methods (K-4)
EDU 349	Integrated Reading and Language Arts Methods (5-8)
EDU 344	Mathematics in the Elementary School
EDU 490	Student Teaching

Secondary (7-12) Certification 45 cr

In addition to meeting any content deficiencies identified in the transcript analysis, students who have already earned baccalaureate degrees and are preparing for secondary teaching certification should take the following:

EDU 112	School and Community
EDU 210	Educational Psychology
EDU 213	Teaching, Learning, and Technology
EDU 303	Reading, Writing, and Study Skills in the Content Areas
PSY 324	Lifespan II*
EDU 313	Curriculum Design and Program Evaluation
EDU 318	Evaluation in the Classroom
EDU 319	Dimensions of Exceptionality
EDU 345-	Specific Methods Course in
351	Endorsement Area
EDU 460	Secondary Seminar
EDU 490	Student Teaching

*Note prerequisite of PSY 110.

Environmental Studies Major

The Bachelor of Science in Environmental Studies offers students a broad field of study encompassing various disciplines and areas of professional specialization. The focus is the study of organisms in their natural environment, and the interactions occurring between people and their natural environment. Environmental problems are multifaceted and contain biological, chemical, social, historical, psychological, and economic elements that must be addressed. Thus, to understand the complexity of environmental problems and work effectively in an environmental career, an individual must have both an area of major academic concentration and a broadly based education. The Environmental Studies program requirements are structured to meet this dual need.

Career Options

A graduate with a B.S. in Environmental Studies will be prepared for a wide variety of employment opportunities. The possibilities include positions in business and industry, state and federal environmental protection agencies, environmental consulting firms, state and national conservation groups, and environmental education organizations. In addition, the program offers sufficient preparation for graduate studies in areas such as ecology, conservation biology, wildlife biology, environmental law, and policy analysis.

General Requirements

All University Core requirements must be met, in addition to the Environmental Studies requirements. Note that completion of some courses within the major, such as in mathematics, will also fulfill Core requirements.

A minimum cumulative Grade Point Average (GPA) of 2.00 in the program requirements is necessary for graduation. This GPA must be achieved by the completion of a total of 60 credits. If the student fails to maintain this average in subsequent semesters, a warning may be issued. The student may lose matriculated status if the average remains below 2.0 after the completion of another 12 credits. A student may petition to be readmitted to the program.

General Program Requirements 65-66 cr*

ANT 101	Cultural Anthropology	3
BIO 111	General Zoology	4
BIO 112	General Botany	4
ENV 112	Environmental Issues	3
ENV 2-401	Special Topics in Environmental Studies 2-3	
BIO 229	Plant Taxonomy	4
BIO 245	General Ecology	4
BIO 355	Conservation Biology	4
BIO 375	Population and Community Ecology	3
BIO 333	Plant Ecology	4

CHY 101	General Chemistry I	4
CHY 102	General Chemistry II	4
CHY 234	Environmental Chemistry	4
MAT 215	Applied Statistics	4

Select two:

<i>ECO 202</i>	<i>Microeconomics</i>	
<i>PHI 201</i>	<i>Ethics</i>	
<i>POS 215</i>	<i>American National Government</i>	
<i>PSY 110</i>	<i>Intro to Psychology</i>	
<i>SOC 114</i>	<i>Intro to Sociology</i>	

Select 8 elective credits by completing any course carrying a science, mathematics, or environmental studies prefix at or above the 200 level.

* Note: 14-17 of the above credits also satisfy the University Core. The credit load of requirements exclusive to the program is therefore 48-52 cr.

Self-Designed Option

66 cr*

Students who have interest in a specific area of environmental studies may elect to design their own program in consultation with their advisor and the Environmental Studies Self-Designed Program Review Committee. Examples of programs designed by former students include Wildlife Biology, Avian Ecology, Environmental Policy, and Environmental Education.

Students in a self-designed program must complete:

ANT 101	Cultural Anthropology	3
BIO 111	General Zoology	4
BIO 112	General Botany	4
ENV 112	Environmental Issues	3
BIO 245	General Ecology	4
MAT 215	Applied Statistics	4

Select two:

<i>ECO 202</i>	<i>Microeconomics</i>	
<i>PHI 201</i>	<i>Ethics</i>	
<i>POS 215</i>	<i>American National Gov't</i>	
<i>PSY 110</i>	<i>Intro to Psychology</i>	
<i>SOC 114</i>	<i>Intro to Sociology</i>	

An additional 38 credit hours of relevant coursework are required. A minimum of 19 of these credits must be at or above the 200 level and 11 credits must be at or above the 300 level.

Students selecting this self-designed option must work with their environmental studies advisor to design a program of study that will prepare them for future work as a professional in their specific area of interest. No later than the beginning of their sophomore year, students submit an initial draft of their proposed plan to the Environmental Studies Program Review Committee. After any necessary revisions, the plan must be approved by the Division of Environmental and Biological Sciences and the Vice President for Academic Affairs. Once

approved, the self-designed program will become the student's learning contract, and its requirements must be met before the student may receive the B.S. in Environmental Studies.

* Note: Seventeen of the above credits also satisfy the UMM Core. The credit load of requirements exclusive to the self-designed option is therefore 49 cr.

Marine Biology Major

UMM's location is ideal for courses related to marine biology, ecology, and mariculture. Students have direct access to intertidal and subtidal marine habitats and organisms, finfish and shellfish aquaculture sites and hatcheries, and commercial fishing ports. This access to marine environments gives UMM students unique field and laboratory experiences.

Program Goals

- To provide a rich and rigorous undergraduate experience in marine biology that focuses on the biological, social, and historic uniqueness of our geographic setting.
- To provide students an opportunity to enhance their analytical and communication skills through independent study or senior thesis.
- To provide students with access to mariculture or other marine-based industries to enhance their competitive advantage in the job market.
- To prepare students to think critically at all junctures of their academic and work-related careers.

The Marine Biology degree program has three areas of concentration—Biological Science, Mariculture, and Marine Ecology. Students choosing one of these or a self-designed concentration are required to meet University Core requirements and a common set of Marine Biology program requirements as well as the requirements in their concentration. To graduate, student must earn a minimum of 120 credits and achieve a cumulative GPA of at least 2.00.

Common Program Requirements		43 cr
BIO 111	General Zoology	4
BIO 112	General Botany	4
BIO 206	Intro to Marine Biology	4
BIO 221	General Microbiology	4
BIO 227	Invertebrate Zoology	4
BIO 245	General Ecology	4
BIO 265	Genetics	4
ENV 103	Intro to Oceanography	3
MAT 215	Applied Statistics	4
CHY 101	General Chemistry I	4
CHY 102	General Chemistry II	4

Biological Science Concentration		39 cr
BIO 223	Marine Mammals and Pelagic Birds	4
BIO 352	Algal Biology	4
BIO 313	Ichthyology	4
BIO 355	Conservation Biology	4
BIO 360	Marine Ecology	4
BIO 482	Seminar in Marine Biology	3
<i>Select four courses:</i>		16

<i>MAT 315</i>	<i>Experimental Design & Analysis for Biologists</i>	
<i>CHY 224</i>	<i>Analytical Chemistry</i>	
<i>CHY 234</i>	<i>Environmental Chemistry</i>	
<i>GIS 230</i>	<i>Intro to Geographic Information Systems</i>	
<i>GIS 301</i>	<i>Special Topics in GIS</i>	
<i>GEY 111</i>	<i>Physical Geology</i>	
<i>MAT 126</i>	<i>Calculus I</i>	
<i>MAT 127</i>	<i>Calculus II</i>	
<i>MTR 101</i>	<i>Meteorology</i>	
<i>PHY 111</i>	<i>Physics I</i>	
<i>PHY 112</i>	<i>Physics II</i>	

Mariculture Concentration		45 cr
BIO 2xx	Marine Microbiology	4
BIO 352	Algal Biology	4
BIO 313	Ichthyology	4
BIO 332	Intro to Mariculture	4
BIO 482	Seminar in Marine Biology	4
CHY 224	Analytical Chemistry	4
CHY 234	Environmental Chemistry	4
ACC 201	Financial Accounting	3
MAN 302	Small Business Management & Entrepreneurship	3
MAR 101	Marketing & Entrepreneurship	3
<i>Complete 8 credits of the following, including at least one internship:</i>		

<i>COE xxx*</i>	<i>Internship—Shellfish Aquaculture</i>	2-4
<i>COE xxx*</i>	<i>Internship—Finfish Culture</i>	2-4
<i>COE xxx*</i>	<i>Internship—Culture of Marine Plants</i>	2-4
<i>BIO 310</i>	<i>Special Topics in Mariculture</i>	4

* Note: Internships require students to present an oral summary of their experience based on their learning objectives.

Marine Ecology Concentration		44-45 cr
BIO 360	Marine Ecology	4
<i>Select one:</i>		3-4
<i>BIO 3xx</i>	<i>Microbial Ecology</i>	
<i>BIO 375</i>	<i>Population and Community Ecology</i>	
BIO 404-6	Senior Thesis in Research (Ecology)	6
BIO 460	Seminar in Marine Ecology	3
MAT 315	Experimental Design & Analysis for Biologists	4
CHY 221	Organic Chemistry I	4
CHY 222	Organic Chemistry II	4
MAT 126	Calculus I	4

MAT 127	Calculus II	4
PHY 111	Physics I	4
PHY 112	Physics II	4

Self-Designed Concentration

For students whose goals are not well served by any of the three concentration areas above, UMM offers a self-designed concentration. In conjunction with their advisor and the Division of Environmental and Biological Sciences, students may design their own concentration to reflect the area of marine biology in which the student is interested. They must still fulfill the University Core requirements and the Marine Biology program requirements. The self-designed concentration must contain at least 32 credits of coursework with a minimum of 24 at or above the 200 level, including at least six at or above the 300 level. The program plan normally should be submitted for approval at the beginning of the student's sophomore year. Such programs must receive the approval of the student's advisor, the Division of Environmental and Biological Sciences, and the Vice President for Academic Affairs.

Recreation & Tourism Management Major

The Recreation & Tourism Management major emphasizes the integrated study of recreational services with business management. The general objective of this program is to prepare professionals in the field of recreation by cultivating a broad understanding of leisure and recreation in our society while developing managerial competencies. This program is accredited by the National Recreation and Park Association. Graduates are prepared to become Certified Park and Recreation Professionals, giving them national recognition.

After establishing a broad foundation, students focus on individual interests by taking courses in an area of specialized study. Students design their own 15-credit-hour specializations in cooperation with their academic advisors. Examples of individualized areas of specialization include:

- Adventure Recreation
- Park Management
- Sports and Fitness Management
- Tourism

Specific courses for the area of specialized study are selected based on student interest and course availability, and may include courses from other colleges in addition to UMM.

Recreation & Tourism Management students gain on-the-job experience through participation in required cooperative education or internship experiences. One of these experiences must be at least 10 weeks in length for a minimum of 400 hours. Opportunities exist for intensive

work experiences during either the summer or the regular academic year in such areas as ski operations, state and national parks, tourist bureaus, municipal recreation programs, summer camps, outfitting/guiding, programs or agencies serving people with special needs, YMCA or YWCA programs, commercial recreation enterprises, tourist resorts, the armed forces, and outdoor education centers. In addition, selected students may complete a more formal, semester-long internship during the senior year.

All students may also acquire nationally recognized certifications while participating in this program. As part of required course work, students gain certificates in CPR, Red Cross First Responder, Snowmobile Safety, and Boating Safety. Also made available on a regular basis are certifications in Hunter Safety, Hunter Safety Instructors, Lifeguarding, Water Safety Instructor, and National Alliance for Youth Sports, or American Coaching Effectiveness (ACE) coaching certification. Courses in this program, along with assistance from faculty, can help prepare anyone for the Registered Maine Guide license and/or the nationally recognized Red Card for firefighting.

General Requirements

Recreation & Tourism Management students must complete the University Core required for all baccalaureate programs and must choose MAT 113 as the mathematics requirement. A total of 128 credits and a cumulative GPA of 2.0 are needed to graduate with a B.S. in Recreation & Tourism Management.

Recreation requirements		42 cr
REM 111	Freshman Recreation Seminar	1
REM 112	Recreation & Leisure Exploration	2
REM 115	History and Philosophy of Recreation	3
REM 121	Outdoor Recreation I	3
REM 122	Outdoor Recreation II	3
REM 124	Recreation Safety and First Aid	3
REM 201	Leisure Activities	3
REM 202	Recreational Sports Methods	3
REM 225	Leadership and Group Dynamics	3
REM 226	Recreation Program Planning	3
REM 301	Park and Recreation Facilities Operations	3
REM 302	Park and Recreation Facilities Design	3
REM 311	Recreation Services for Special Populations	3
REM 321	Recreation Administration and Supervision	3
REM 442	Recreation Seminar	3
Business requirements		12 cr
ACC 201	Financial Accounting	3
BUS 221	Business Law I	3
MAR 101	Marketing & Entrepreneurship	3

<i>Select from:</i>	3
MAN 318 <i>Human Behavior in Organizations</i>	
MAN 332 <i>Human Resource Management</i>	

Additional requirements	8 cr
MAT 113 Intro to Statistics	3
Physical education beyond the University Core	2
Computer electives chosen from:	3
CSE 109 Web Page Design	
CSE 115 Business Spreadsheet Applications	
CSE 118 Database Applications	
EDU 213 Teaching, Learning and Technology	
REM 305 Recreation Computer Applications	

Field experience	8 cr
8 credits; second experience must be minimum of 10 weeks and 400 hours.	

Area of specialization	15 cr
A minimum of 15 credits as approved by academic advisor.	

General electives	11-15 cr
As needed to earn the required program total 128 credits.	

BACHELOR OF COLLEGE STUDIES

The Bachelor of College Studies program at the University of Maine at Machias will meet the special needs of non-traditional, returning, and traditional-aged students not otherwise served by existing programs in the region. Specifically, the BCS program will serve the following groups:

- Students who seek to complete a degree that assures them of sufficient college-level competencies to allow them to enter a competitive job market and thrive;
- Students returning to school who bring with them diverse school and life experiences that give them skills and focus, but which require further college-level educational components to complete a degree;
- Students who have shifted majors throughout their academic careers and would like to combine elements of each into a coherent program;
- Students who would like to pursue a special area that is not offered as a degree program at UMM but can be supported by UMM faculty.

Participation in the BCS Program is limited to students who have 1) successfully completed 45 or more credits of college level course work (or the equivalent) which is accepted by UMM, and 2) developed a compelling set of program objectives and learning

outcomes that cannot be reached through an existing UMM degree program but which can be achieved by using UMM courses and faculty.

In addition students will not be accepted into or be matriculated in the BCS Program until a completed Plan of Study has received final approval. The completed Plan of Study must include the anticipated objectives of the individualized program, student learning outcomes for the Self-Designed concentration, all course work to be completed in all areas of the program, and the planned capstone experience (i.e. BCS 460 or other equivalent).

General Requirements

Students must earn a minimum of 120 credits and achieve a GPA of at least 2.00 to graduate. Forty credits must be at or above the 200 level. While they are not required to meet all University Core requirements, students must take the general education courses listed below.

General Education Requirements	39-42
ENG 101 Composition	3
<i>Additional Writing course*</i>	3
SPE 104 Public Speaking/Communication	3
<i>Area of aesthetic knowledge/appreciation</i>	3
<i>Humanities:</i>	6
(from Art, Music, Theatre, English, Humanities, Speech, Writing, Philosophy, Writing, Foreign Language)	
<i>History</i>	6
(at least 3 credits of World or non-Western History)	
<i>Humans in Social Context</i>	6
(see options listed under University Core)	
<i>Demonstrated competency in pre-college math</i>	0-3
(see University Core)	
<i>Mathematics beyond Intermediate Algebra</i>	3
(see University Core)	
<i>Lab science</i>	4
PHE 105 Personal Wellness	2

* Students must also meet the same *Advanced Level Writing* requirement as all UMM students. This is typically embedded in Program requirements below.

Self-Designed Concentrations

Students in consultation with their academic advisor will draw up a plan for a concentration, including the name of the concentration, the goals, the learning outcomes, and the specific courses that the student will use to achieve the concentration. The concentration and plan of study will be unique to each student. The concentration may not duplicate, or be used to circumvent degree requirements of any degree program at UMM. The concentration must be in an area of study that can be supported by UMM faculty and UMM courses, especially courses at or above the 300-level. The proposed Plan of Study must be approved by the academic advisor, the

BCS Coordinator, the BCS Advisory Committee and the VPAA.

A minimum of 39 credits is required in each self-designed concentration. All course work should focus on the goals and objectives of the proposed concentration. This may include independent studies, CLEP, Credit for Prior Learning, etc. A minimum of 12 credit hours must be UMM course work. A minimum of 15 hours must be taken at the 300-level or above; of these 15 hours, a minimum of 9 hours must be UMM course work. The concentration must include a culminating integrative experience that clearly demonstrates the linkage between the concentration objectives and the student's academic work. This may be accomplished through completion of BCS 460 Senior Projects or another appropriate senior seminar or capstone course. The concentration must also include at least one course which meet the Advanced Level Writing requirement of the University Core. Students must have a 2.0 cumulative GPA in self-designed concentration to qualify for graduation.

All UMM residency requirements apply to BCS students, including a minimum of 30 credits of UMM coursework.

Note: If a student transfers from the Bachelor of College Studies program to any of the other baccalaureate degree programs, University Core requirements and the appropriate program requirements must be completed.

MINORS

A minor is a secondary area of specialization and competence that further prepares a student for a career and/or graduate work. Students who successfully complete a baccalaureate degree in addition to the required course work in a minor with at least a 2.0 GPA in those courses will have the minor officially noted on their transcript.

Students who wish to strengthen their major or supplement their professional preparation may select an approved minor from the following list.

American Studies Minor 24 cr

American Studies is an interdisciplinary program. It relies on multiple perspectives to explore cultural life, whose complexity defies the boundaries of traditional disciplines. Students who minor in American Studies are well positioned to pursue successful careers in government, education, business, history, journalism, English, and the fine arts.

AME 220 American Studies in Theory and Practice

ENG 327 American Literatures

HTY 201 American History I

HTY 202 American History II

POS 215 American National Government

Select 9 credits from any course at or above the 200 level focusing on the American experience and deriving from art, music, theater, English, communication, history, political science, sociology, anthropology, and/or psychology. Note: At least 12 of the 24 credits must be outside a student's major.

Applied Anthropology 24 cr

The Applied Anthropology minor is relevant for all students who wish to improve their competitiveness for professional and graduate school careers that include a social or cultural dimension. The minor would benefit careers that involve international business; multi-cultural classrooms, workplaces or communities; cross-cultural perspectives; and environmental issues that concern diverse stakeholders.

ANT 101 Cultural Anthropology

ANT 201 Physical Anthropology

ANT 212 Environmental Anthropology

ANT 313 Political Ecology

ANT 330 Sociocultural Models

CMY 101 Introduction to Community Studies

Select one:

ANT 311 Archaeology & Maine Prehistory

ANT 315 Special Topics in Applied Anthropology

*Three-week summer program in Yucatan**

Select 3 credits from any course at or above the 200 level from one of the following areas: ANT, CMY, ECO, GIS, HTY, NAS (Native American Studies), PSY, SSC. HON 220 Soliya: Cross-Cultural Communication and ANT 209 also satisfy this elective requirement.

*Students choosing this option must also choose the preparatory on-line course ANT 209 Readings in Mexican Culture & Civilization (satisfies elective requirement above). Students register through Peace College; the course will transfer as ANT 315, as long as student earns a C- or better.

Art Minor 24 cr

This program is intended to serve as a foundation for additional study in art and as a complement to related liberal arts or education majors.

Select one:

ART 101 2-D Fundamentals of Art

ART 102 3-D Fundamentals of Art

ART 201 Art History I

ART 202 Art History I

ART 210 Drawing I

Select 12 credits in art electives

Behavioral Science Minor 18 cr

ANT 101 Cultural Anthropology

HTY 340 History of Social Science

PHI 201 Ethics

PSY 110 Intro to Psychology

PSY 320 Learning and Memory

SOC 114 Intro to Sociology

Note: Students are encouraged to take MAT 113 or MAT 215 as a University Core requirement in math.

Biology Minor 32 cr

BIO 111 General Zoology 4

BIO 112 General Botany 4

Select one: 4

BIO 222 Cell Biology or

BIO 265 Genetics

BIO 245 General Ecology 4

BIO 221 General Microbiology 4

BIO elective at or above 200 level 4

CHY 101 General Chemistry I 4

CHY 102 General Chemistry II 4

Business Administration Minor 18 cr

The Business Administration minor is designed for students not majoring in Business Administration who are encouraged to complement and enhance their future employment and/or success in an MBA program. Select

18 credits from at least 3 of the areas below. At least 12 credits must be at or above the 200 level.

- ACC Accounting courses
- BUS Business courses
- MAN Management courses
- MAR Marketing courses

Chemistry Minor 32 cr

- CHY 101 General Chemistry I 4
- CHY 102 General Chemistry II 4
- CHY 221 Organic Chemistry I 4
- CHY 222 Organic Chemistry II 4

Select two: 8

- CHY 224 Analytical Chemistry
- CHY 234 Environmental Chemistry
- CHY 322 Biochemistry

Select one sequence from: 8

- MAT 215 & 302 Applied Statistics and Biostatistics
- MAT 126 & 127 Calculus I and II
- PHY 111 & 112 Physics I and II

Coaching Minor 18 cr

Intended for non-recreation majors only. Additional courses may be added to this list as they are developed. Students should consult with their academic advisor.

Select from:

- REM 124 Recreation Safety and First Aid
- REM 202 Recreational Sports Methods
- REM 226 Recreation Program Planning
- REM 213 Coaching Soccer and Basketball
- REM 224 Intro to Athletic Training
- REM 323 Strength and Conditioning
- EDU 112 School and Community
- PSY 212 Lifespan I
- PSY 324 Lifespan II

Creative Writing Minor 18 cr

- WRI 207 Studies in Composition and Grammar
 - WRI 211 Beginning Creative Writing
 - WRI 471 Advanced Creative Writing
- 9 credits of Writing electives

At least 6 credits of the writing electives must be in creative writing courses. Student may also choose to apply 3 credits in independent study toward this minor, or take another appropriate course as approved by the English faculty.

Economics Minor 18 cr

- ECO 201 Macroeconomics
- ECO 202 Microeconomics
- HTY 307 American Economic History
- IND 301 Independent Study
- SSC 310 Demography and Human Ecology

Select one of the following:

- PHI 201 Ethics
- SSC 203 Contemporary Social and Political Issues

Note: Students are encouraged to take MAT 113 or MAT 215 as a University Core requirement in math.

English Minor 24 cr

- ENG 117 Intro to Literary & Cultural Studies
- ENG 224 Studies in World Literature
- WRI 207 Studies in Composition and Grammar
- ENG 325 British Literature Survey
- ENG 327 American Literatures

One additional literature course at or above 200 level

One additional literature course at or above 300 level

Select one:

- ENG 231 Techniques of Poetry
- ENG 232 Techniques of Fiction
- ENG 233 Techniques of Creative Nonfiction

Environmental Studies Minor 26-30 cr

- ENV 112 Environmental Issues 3
- ENV 201 Special Topics in Environmental Studies 2-3
- CHY 101 General Chemistry I 4
- CHY 102 General Chemistry II 4
- BIO 245 General Ecology 4

Select three courses (9-12 cr) from the following:

- BIO 375 Population and Community Ecology
- CHY 234 Environmental Chemistry
- ENV 103 Oceanography
- GIS 230 GIS Applications I
- GEY 111 Physical Geology
- HTY 325 Global Environmental History of the 20th Century
- MTR 101 Meteorology
- POS 305 Environmental Policy
- SSC 310 Demography and Human Ecology

History Minor 24 cr

- HTY 115 World History to 1500
 - HTY 116 World History since 1500
- American History elective
European History elective
World History elective
9 credits in additional history electives

Leisure Studies Minor 18 cr

Intended for non-recreation majors only. Additional courses may be added to this list as they are developed. Students should consult with their academic advisor.

Select from:

- REM 115 History and Philosophy of Recreation
- REM 124 Recreation Safety and First Aid
- REM 201 Leisure Activities

- REM 202 Recreational Sports Methods
- REM 225 Leadership and Group Dynamics
- REM 226 Recreation Program Planning
- REM 311 Recreation Services for Special Populations
- REM 319 Topics in Tourism & Hospitality Management

Mathematics Minor 24 cr

- MAT 110 Finite Math 3
- MAT 126 Calculus I 4
- MAT 127 Calculus II 4
- MAT 215 Applied Statistics 4

Select at least 9 credits from the following:

- MAT 200 Topics in Mathematics
(May be repeated with different topics)
- MAT 302 Biostatistics

Mental Health & Rehabilitation Technician (MHRT) Minor 24 cr

Students completing this minor are eligible for State of Maine MHRT/Community certification. Students apply directly to the State of Maine for certification.

- PHI 201 Ethics 3
- PSY 110 Introduction to Psychology 3
- PSY 211 Intro to Behavioral & Community Mental Health Systems 3
- PSY 213 Psychosocial Rehabilitation Practices 3
- PSY 230 Abnormal Psychology 3
- PSY 313 Counseling Diverse Populations 3
- PSY 332 Crisis Identification & Resolution 3
- SSC 302 Introduction to Counseling 3

Music Minor 24 cr

The music minor provides a solid background of lifelong musical fulfillment for both the budding musician and the lover of music.

- MUS 115 Intro to Music: Listening
- MUS 119 Fundamentals of Music: Literacy

Select one:

- MUS 312 Music History I
- MUS 313 Music History II

9 credits in academic music electives at or above the 200 level

Select 6 hours from the following courses, with at least one course from each of the following categories:

- Performing Groups*
 - MUS 1/301 UMM Chorale
 - MUS 1/2/3/407 Applied Music: Performing Groups
- Private Lessons*
 - MUS 103 Applied Music: Private Lessons
 - MUS 1/209 Applied Music: Guitar

Outdoor Recreation Minor 18 cr

Intended for non-recreation majors only. Additional courses may be added to this list as they are developed. Students should consult with their academic advisor.

Select from:

- REM 115 History and Philosophy of Recreation
- REM 124 Recreation Safety and First Aid
- REM 121 Outdoor Recreation I
- REM 122 Outdoor Recreation II
- REM 211 Outdoor Recreation III
- REM 123 Advanced River Canoeing and Camping (St. John)
- REM 125 Sailing and Basic Seamanship
- REM 411 Recreation and Wilderness Resources

Professional Writing Minor 18 cr

- WRI 207 Studies in Composition and Grammar
- WRI 208 Technical Writing in the Information Age
- WRI 226 Copyediting and Proofreading

Two writing electives (6 cr) selected from

- WRI 308 Creative Non-Fiction Writing: Intermediate
- WRI 414 Grant and Proposal Writing

Or other writing courses as approved by the English faculty. Students may also choose to apply 3 credits in independent study or creative writing toward this minor.

- WRI 4xx Writing Internship (3 cr)

This course might include writing-related work for a business or non-profit agency, tutorial assistance in the Writing Center, or writing instruction assistance in the classroom. The student's internship work will be evaluated by a member of the English faculty in consultation with the student's direct supervisor.

Psychology Minor 19 cr

- HTY 340 History of the Social Sciences
- PSY 110 Intro to Psychology
- PSY 311 Social Psychology
- PSY 320 Learning and Memory
- PSY 322 Physiological Psychology
- SSC 320 Research Methods and Design

Note: Students are required to take BIO 111 General Zoology and MAT 113 Intro to Statistics as prerequisites for certain courses above. These courses should be taken as part of a student's University Core requirement selections.

Public Administration Minor 18 cr

The Public Administration minor is designed for students who might wish to pursue graduate work in public administration and/or work in the public sector. It is an

excellent career-oriented complement to a business administration or liberal arts major.

ACC 328 Fund Accounting
MAN 301 Management
POS 215 American National Government
WRI 414 Grant and Proposal Writing

Select 6 credits from the following:

ACC 201 Financial Accounting
BUS 221 Business Law I
ECO 202 Microeconomics
POS 216 State and Local Government

Secondary Education Minor 39 cr

In conjunction with their B.A. programs in English, history, and the sciences, students who successfully complete Secondary Education minors may apply for teaching certification, grades 7-12. It is important that students take initiative early in their college careers to form an informal advising relationship with one of the education faculty. Courses must be planned carefully to meet requirements for both major program and secondary education certification.

Students preparing for secondary teaching certification must successfully complete the following professional courses, including student teaching:

EDU 112 School and Community	3
EDU 210 Educational Psychology	3
EDU 313 Curriculum Design and Program Evaluation	3
PSY 324 Lifespan II	3
EDU 318 Evaluation in the Classroom	3
SED 310 Dimensions of Exceptionality	3
Select one:	3
EDU 345 Secondary English Methods	
EDU 347 Secondary Social Studies Methods	
EDU 351 Middle/Secondary Science Education Methods	
EDU 460 Secondary School Seminar	3
EDU 490 Student Teaching	15

For acceptance into upper-division study in the Secondary Education Minor, beginning with EDU 313, students must:

- have a minimum overall GPA of 2.50
- have a minimum GPA in major of 2.50
- have a minimum GPA of 2.50 in both EDU 112 and EDU 210
- demonstrate competency in pre-college math
- pass keyboarding competency test or have taken SES 102
- successfully interview with Education Department faculty
- successfully complete Praxis I exam

Minimum cumulative GPA requirements for student teaching: 2.5 overall
2.5 in major
2.5 in professional coursework, with no grade below a C-

Further information can be found under Baccalaureate Programs in the section titled "Teacher Preparation Programs."

Women's Studies Minor 18 cr

Women's Studies examines women from an interdisciplinary perspective, acknowledging gender's pervasive influence on multiple aspects of our daily lives. A Women's Studies minor will allow students to focus on the history, contributions, and experiences of women, within a complex matrix of such factors as race, class, ethnicity, nationality, and sexual orientation.

Women's Studies courses can help prepare students for entering the workforce or pursuing further education, in such diverse fields as teaching, law, medicine, journalism, communication, business, recreation, or government. It can also be of special benefit to students planning to enter the social service sector, including human service agencies, personal or career counseling, women's agencies and programs, and public service.

The Women's Studies minor consists of a minimum of 18 credits, to be distributed as follows:

WST 110 Intro to Women's Studies	3
WST 410 Feminist Theory	3

Additional 4 courses (12 credits) of which at least 50 percent of the content is concerned specifically with women's issues. At least 2 of these courses must be outside the student's major field of study.

Each semester, the Women's Studies Steering Group publishes a list of courses that qualify for Women's Studies credit. Students may also petition to have other courses count toward the 4-course requirement. A maximum of 3 credits of independent study may be credited toward the minor.

*Course
Descriptions*

COURSE DESCRIPTIONS

Course Credit

Academic credit is awarded for successful completion of course work. Credit, credit hours, and semester hours of credit are synonymous terms with one credit being equivalent to fifty minutes per week for the semester. Certain experiences such as laboratory sessions and studio and performance work in the arts may involve more time per credit.

Catalog references to credit are abbreviated as "Cr."

ACC 201 Financial Accounting

The fundamental principles of accounting as they relate to sole proprietorships. Emphasis is given to developing the technical procedures of journalizing, posting, adjusting entries, closing the books and preparing the financial statements. In addition, students are introduced to notes, inventory, depreciation, controls and payroll. Competency and/or concurrent enrollment in basic reading, writing, and mathematics courses are a prerequisite for all business studies offerings with a prefix of ACC, BUS, MAN, and MAR. 3 Cr

ACC 202 Managerial Accounting

Covers techniques accountants use to help management plan and control business operations. Topics include accounting for manufacturing costs, budgeting and performance reporting, cost-volume-profit analysis, differential analysis, the computation of financial ratios, and the comparison of cash flow with net income. Prerequisite: ACC 201. 3 Cr

ACC 212 Principles of Financial Accounting II

In this course, students encounter and are exposed to various topics in accounting for fixed and intangible assets; corporate organization, capital stock transactions and dividends; corporate income and taxes, stockholders' equity and investments in stocks; bonds payable and investments in bonds; cash flows; depreciation; financial statement analysis; alternative methods of recording deferrals, and lastly, partnerships. Prerequisite: ACC 201 3 Cr

ACC 301 Intermediate Accounting I

Covers techniques accountants use to measure and communicate general purpose financial information to all interested parties in a manner that complies with generally accepted accounting principles. Topics include income statements, balance sheets, cash, receivables, inventories, and non-current assets. Prerequisite: ACC 201. 3 Cr

ACC 302 Intermediate Accounting II

Techniques accountants use to measure and communicate general purpose financial information to all interested parties in a manner that complies with generally accepted accounting principles. Topics include revenue recognition criteria, current and long term liabilities, corporate owner's equity, income taxes, pensions, leases, and the statement of cash flow. Prerequisite: ACC 301. 3 Cr

ACC 311 Individual Income Tax

Covers federal income tax legislation that applies to individual income taxpayers. Topics include the individual income tax formula, income inclusions and exclusions, ordinary income, capital gains and losses, active and passive income, deductions, and tax credits. Students learn to prepare individual income tax returns. Prerequisite: ACC 201 or permission of instructor. 3 Cr

ACC 312 Business Income Tax

Covers federal tax legislation that applies to business entities and to the owners of those entities. Students study the tax treatment of proprietorships, partnerships, and corporations and learn to prepare tax returns for each. Prerequisite: ACC 311 or permission of instructor. 3 Cr

ACC 314 QuickBooks Accounting for Entrepreneurs

QuickBooks Accounting for Entrepreneurs will introduce students to QuickBooks accounting software. Students will become familiar with maintaining accounting records and preparing summary financial reports using QuickBooks. The course is also intended to help students learn or review fundamental accounting concepts and principles, enable students to review financial statements from a user perspective, provide students with a means to investigate the underlying source documents that generate most accounting information, and offer students the chance to explore some managerial aspects of accounting by performing financial analyses and comparisons. Prerequisite: ACC 201 or permission of instructor. 3 Cr

ACC 321 Cost Accounting

Covers how accountants measure and allocate the costs of operating a business. Topics include manufacturing costs, cost systems, analyzing cost variances, direct and absorption costing, operating budgets, and capital expenditure analysis. Prerequisite: ACC 202. 3 Cr

ACC 328 Fund Accounting

Covers accounting practices of governmental and non-profit organizations. This course provides an opportunity to compare the accounting assumptions of organizations with varying purposes and to explore the appropriateness of those assumptions. Prerequisite: ACC 201. 3 Cr

ACC 431 Advanced Accounting

Covers how accountants measure changes in partnership equity and how they record business combinations, mergers, and acquisitions. Students have the opportunity to discuss a variety of financial reporting topics in seminar fashion. Prerequisite: ACC 302. 3 Cr

ACC 432 Auditing

Covers the fundamentals of internal accounting control. Students learn about the role of an auditor, learn how public accountants gather the evidence they need to substantiate their audit reports, and learn about the contents of typical audit reports. Prerequisite: ACC 302. 3 Cr

ACC 434 CPA Review

A course for the senior accounting student preparing to assume professional accounting responsibilities. Students participate in a comprehensive review of accounting theory, financial reporting issues, cost accounting, tax accounting, business law, and auditing. Problem-solving exercises direct student attention to subjects that deserve individual study. Prerequisite: ACC 311, ACC 321, ACC 431, or permission of instructor. 3 Cr

AME 220 American Studies in Theory and Practice

Introduction to the subject and methods of American Studies. Students learn how American Studies forms its own mode of interdisciplinary inquiry, one whose multiple perspectives enrich an understanding of society and culture in America. This course is organized around a single-semester topic or theme such as imperialism, sexual diversity, or ethnicity; or it may focus on a particular era such as the Gilded Age or the Fifties. Prerequisite: ENG 101, a 100-level literature course, HTY 201, HTY 202, or permission of instructor. 3 Cr

AME 330 Topics in American Studies

This course applies the subject and methods of American Studies (introduced in AME 220) to the exploration of a single-semester topic or theme - such as conspiracy theories, urban legends, the Fifties, or cyberspace. Students learn how American Studies takes its own form of interdisciplinary inquiry, one whose multiple perspectives enrich an understanding of society and culture in America. Prerequisite: ENG 101, AME 220 or permission of instructor. 3 Cr

ANT 101 Cultural Anthropology

A comparative study of contemporary cultures and institutions with particular attention to primitive and peasant societies. Emphasized are such topics as human evolution and race; pre-scientific writings and ethnology; the concept of culture; language and perception; economics and technology; marriage, the family and kinship; associations, castes and classes; political organization and warfare; religion and magic; folklore and

the arts; culture and personality; American culture; cross-cultural contact; and cultural change. 3 Cr

ANT 201 Physical Anthropology

Physical Anthropology is the study of humanity from a biological and evolutionary perspective. We are interested in anthropological questions -- how do we explain human behavior? -- by thinking about people as just another member of the Animal Kingdom. This approach leads to new insights on what makes people so unique, and what makes them similar to non-human animals. In this course, we will explore: evolutionary theory, basic genetics, primates, fossil humans, forensic anthropology, and modern human variation. With each topic, we will also consider related current events and issues. Current issues include: cloning, genetically-modified foods, and genetic screening for pregnant women; habitat conservation; identification of crime victims, including the 9/11 tragedy; and IQ testing and measuring of intelligence. As part of the course, students will also conduct several informal experiments, guided by the instructor, dealing with observations of humans and animals. 4 Cr

ANT 203 Petroglyphs & Middens

Petroglyphs -- ancient pictures and symbols inscribed into rock faces by native peoples -- and shell middens -- the visible remains of prehistoric coastal societies -- have been a source of inspiration, fantasy and research to many people for hundreds of years. Washington County is home to a rich array of petroglyphs and eroding shell middens created as many as 3,000 years ago by Native Americans. Why did they carve images into stone? How did/do petroglyphs and middens fit into the daily lives and culture of Maine's past and present Native American populations? How do/should we read this past, or any past? What place do petroglyphs and shell middens have in our creative and personal lives today? In this class, we will explore these and related questions through archaeological and artistic lines of inquiry. Depending on tides and regardless of weather, students will examine some of the area's petroglyph and shell midden sites and their cultural, historical and archaeological and artistic contexts. 3 Cr

ANT 209 Readings in Mexican Culture & Civilization

An exploration of Mexican culture and an examination of cultural encounters through readings, online discussions, and assignments. This course is for students who wish to introduce themselves to prehistoric, historic, and contemporary Mayan culture. The class is also intended to familiarize students with the experience of culture shock and how, through anthropological insights, its effects can be minimized and even used constructively. This course serves as a prerequisite for UMM's summer Yucatan program. Students registered for the Yucatan

program must sign up for three credits and complete a final research paper. Students not registered for the Yucatan program may sign up for two credits and opt out of the final research paper. 2-3 Cr

ANT 212 Environmental Anthropology

The field of environmental anthropology explores human-environment relations around the globe and from prehistory to the present. It also strives to understand environmental issues and knowledge, not only from a Western scientific point of view, but also from the perspectives of people from other cultural backgrounds. In this class, students will survey the field of environmental anthropology and apply its method and theory to a problem where they live. 3 Cr

ANT 215 Special Topics in Applied Anthropology

Course designed to allow students to pursue study in an area within Applied Anthropology. Courses vary in content in response to student interest and demand. Prerequisite: Dependent upon course offered, or permission of instructor. 3 Cr

ANT 311 Archaeology & Maine Prehistory

Maine has a rich tradition of human settlement and cultural diversity spanning from the end of the last Ice Age to modern times. The purpose of this class is to introduce students to the field of archaeology and the discoveries, questions, and problems that have emerged over more than a century of Maine archaeological research. Prerequisite: ANT 101 or SOC 114, or permission of instructor. 3 Cr

ANT 313 Political Ecology

The field of political ecology examines and attempts to explain the political dimensions of human-environment relations. This course will introduce the field, its history, methods, and perspectives, and emphasize the application of its principles and perspectives to the understanding and management or resolution of real-world, environment-related problems. Students will select and research an issue pertinent to Downeast Maine such as salmon aquaculture, wild salmon population restoration, blueberry farming, or the siting of Liquid Natural facilities; analyze it, and develop a remediation plan that takes into account a range of environmental and social dimensions. Prerequisite: ANT 212 or permission of instructor. 3 Cr

ANT 315 Special Topics in Applied Anthropology

Course designed to allow students to pursue study in an area within Applied Anthropology. Courses vary in content in response to student interest and demand. Prerequisite: Dependent upon course offered, or permission of instructor. 3 Cr

ANT 330 Sociocultural Models

An examination of contemporary theoretical explanations of behavior: how do various models shape the formulation of questions about behavior and the resultant answers. Theoretical explanations may include, but not be limited to structural, conflict, interactionist, and evolutionary models. Prerequisite: ANT 101 Introduction to Anthropology and two of the following three courses: PSY 110 Introduction to Psychology, SOC 114 Introduction to Sociology, MAT 113 Intro to Statistics. 3 Cr

ANT 415 Special Topics in Applied Anthropology

Course designed to allow students to pursue study in an area within Applied Anthropology. Courses vary in content in response to student interest and demand. Prerequisite: Dependent upon course offered, or permission of instructor. 3 Cr

ART 101 2-D Fundamentals of Art

An introductory-level course in which students learn the elements and principles of two-dimensional design through hands-on studio practice. Class meetings include drawing, painting, and mixed media, as well as lectures and discussions on related topics. Such topics may include non-Western art, aesthetics, and historical and modern art. This course partially satisfies the University Core requirement in fine arts and is a prerequisite to all other studio art offerings. 3 Cr

ART 102 Art Fundamentals: 3-D

An introductory course in which students learn the elements and principles of three-dimensional design through hands-on studio practice. Class meetings include drawing, sculpture, and mixed media as well as lectures and discussions on related topics. Such topics may include non-Western art, architecture, and historical and modern art. This course partially satisfies the University Core requirement in fine arts and is a prerequisite to all other studio art offerings. 3 Cr

ART 201 Art History I

A survey of the visual arts from prehistory until 1600 A.D. This course includes lectures and discussions of the art and life of people in all major cultures in this chronological period. Prerequisite: ENG 101 or permission of instructor. 3 Cr

ART 202 Art History II

A survey of the visual arts from 1600 A.D. until the present. This course includes lectures and discussions of the art and life of people in all major cultures with an emphasis on Western culture after the Renaissance. Prerequisite: ENG 101 or permission of instructor. 3 Cr

ART 210 Drawing I

The introductory course in studio drawing. Students are taught the basic concepts and techniques of drawing in

studio sessions using still life, land/seascape, and the model. Emphasis is on gaining facility in rendering and visualizing from life. Prerequisite: ART 101, ART 102, or permission of instructor. 3 Cr

ART 211 Painting I

The introductory course in painting. Students learn the fundamental processes of opaque and/or transparent painting media through intensive studio practice, lecture and demonstration. Prerequisite: ART 101, ART 102, or permission of instructor. 3 Cr

ART 212 Hand-Built Ceramics

An introductory course in ceramics. Students will learn to build vessels and small sculptures out of clay using coil, slab and other hand-building techniques. They will study the applications and properties of clay bodies and glazes. Students will also learn to use and care for kilns and other pottery equipment as well as how to work safely and effectively in a pottery studio. Finally, students will be given an overview of the history of ceramics from prehistory to the present. Prerequisite: ART 101 or ART 102 or permission of the instructor. 3 Cr

ART 214 Special Topics in Art

Special lecture, studio, travel and workshop experiences in the visual arts. Recent topics offerings include Book Arts, Landscape Watercolor, Digital Design, and Life as Art: UMM student trip to Italy. In the BAIFA program, these courses may be used as visual art electives and repeated for credit. Prerequisite: ART 101, ART 102, or permission of instructor. 1-3 Cr

ART 216 Book Arts I

This studio course will concentrate on the study of the book as a medium for the expression of the written word. Topics covered in this course include the cultural and historical development of the book artifact, its materials and methods of production, the aesthetic integration of topography, text, page, paper and image; printing and methods of book production, and binding structures. Letterpress printing will be introduced. Books will be editioned in small numbers as prototypes of learning the techniques of production. Prerequisite: ART 101 or ART 102 or permission of instructor. 3 Cr

ART 217 Papermaking

This studio course will explore making paper by hand as a component for the making of edition of paper and images critical for the making of books. In addition to the exploration of the cooking, beating, and sheet forming of fiber into paper, students will learn about the history of papermaking, the materials used in the history of writing and printing, and the aesthetics of material usage as it pertains to interpreting a specific written text or visual image. The course will also involve a critical analysis of works of art and books using handmade paper and a comparative study of paper made from assorted fibers,

historical and modern. Prerequisite: ART 101 or ART 102 or permission of instructor. 3 Cr

ART 218 Printmaking

An introduction to the materials and techniques of fine art print production. Woodcut, linocut, etching, engraving and lithography are some of the processes explored. Class sessions consist of studio work, demonstration, lecture, and group and individual critiques. Prerequisite: ART 101, ART 102, or permission of instructor. 3 Cr

ART 219 Photography

A studio course designed to acquaint the student with the process of visual exploration using a camera. The student learns the basics of camera use, darkroom technique, photographic history, and application of knowledge to the subject. The student is expected to arrange out-of-class photo session and darkroom time. May be repeated for credit. Prerequisite: ART 101, ART 102, or permission of instructor. 3 Cr

ART 220 Sculpture

A studio course exploring the process of making art in three dimensions. A variety of materials and techniques are used as the class examines additive, subtractive and cast sculpture. May be repeated for credit. Prerequisite: ART 101, ART 102, or permission of instructor. 3 Cr

ART 310 Drawing II

The basic concepts and techniques of drawing are reintroduced through studio sessions. Students draw with a variety of media from life and from conceptual/creative models. Emphasis in this more advanced class is on the development of facility, style and self-expression. May be repeated for credit. Prerequisite: ART 210 or permission of instructor. 3 Cr

ART 311 Painting II

Designed for students who are experienced painters. Through intensive studio practice, students develop their facility with selected opaque and/or transparent media. Emphasis is on the development of an individual vision. May be repeated for credit. Prerequisite: ART 211 or permission of instructor. 3 Cr

ART 313 Photography II

Advanced development of students' photographic skills and understanding. The course explores a variety of equipment, materials and techniques. Students develop an awareness of many variables important to advanced work in photography. Simultaneously, they develop a new awareness of the image and of themselves as image makers. Prerequisite: ART 219 or permission of instructor. 3 Cr

ART 320 Life Drawing

An introduction to rendering the human figure. Students learn how to draw the human figure in action and repose

through intensive studio practice. The structure and function of the human skeleton and musculature is taught through lecture, demonstration and discussion. May be repeated for credit. Prerequisite: permission of instructor. 3 Cr

ART 326 Book Arts II

This studio course will continue the study of Book Arts I using the book as a medium for the expression of the written word. The aesthetic integration of typography, text, page, paper and image through letterpress printing and other advanced printing and binding techniques will be explored. A copyrighted book project will be editioned beyond the prototype stage and marketed. Prerequisite: ART 216 or permission of instructor. 3 Cr

ART 421 Advanced Art Projects

Designed to allow students to explore intensively their own areas of specialization in both subject and technique. While the course emphasizes individual work, collaborative approaches are also put into practice. May be repeated for credit. Prerequisite: ART 101 or ART 102, ART 210, and two upper-level art courses; or permission of instructor. 3 Cr

ASL 101 Intro to Sign Language

Provides the student with an overview of American Sign Language (ASL), signed English, and communication through gesture. Students develop an understanding of the history of ASL and learn to communicate through expressive and receptive ASL. The course is taught through practice, small-group work, presentations and as little spoken word as possible. 3 Cr

ASL 102 Intermediate Sign Language

Following the Introduction to Sign Language, this course serves as the second half of the sign language sequence. The intermediate-level course utilizes the immersion-style teaching method. A silent classroom where signed ASL will be the only form of communication will be maintained for the duration of the course. Prerequisite: ASL 101 or permission of the instructor. 3 Cr

AST 100 Descriptive Astronomy

The goal of this course is to provide students with a basic introduction to astronomy. The course will cover the basics of observational astronomy, astronomical tools, and will introduce a basic discussion on planets and the solar system. 3 Cr

BCS 460 Senior Project/Capstone Experience

This course is the capstone experience for a student in the BCS program. It can take the form of a portfolio, a research project or some other equivalent experience. It is intended to be the method through which the student clearly demonstrates the linkage between their objectives and the academic work in their self-designed concentration. It is expected to be a culminating,

integrative experience. The student presents their work to the appropriate campus audience. 3 Cr

BED 414 Business Education Methods

Covers the latest strategies for teaching business and computer courses. Classroom technique, procedures and evaluation are emphasized. Prerequisite: EDU 301 or permission of instructor. 3 Cr

BEH 201 Special Topics in Behavioral Science

Courses designed to allow students to pursue study in an area within Behavioral Science. Courses vary in content in response to student interest and demand. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

BEH 301 Special Topics in Behavioral Science

Courses designed to allow students to pursue study in an area within Behavioral Science. Courses vary in content in response to student interest and demand. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

BEH 401 Special Topics in Behavioral Science

Courses designed to allow students to pursue study in an area within Behavioral Science. Courses vary in content in response to student interest and demand. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

BEH 450 Senior Seminar

An opportunity for students to apply and expand what they have learned in the Behavioral Science program by pursuing various topical problems and issues. Independent inquiry and formal presentations to the class are important components of this course. Comparisons and contrasts among the disciplines of anthropology, sociology, and psychology in approach and method are formalized. Prerequisite: Senior standing and permission of the Behavioral Science faculty. 3 Cr

BIO 100 Explorations in Biology

This course is designed for beginning Biology majors (but is appropriate for all students), and attempts to introduce students to some of the content areas within the discipline of Biology through investigations focused on a particular Maine organism. The organism may change from year to year. For example, if the focal organism was moose, then possible topics could include moose food plants, moose nutrition, ruminant digestion, moose gut microorganisms, etc. Field notebooks will place an emphasis on recording information in the field setting, and long-term collection of data will be discussed. 1 Cr

BIO 106 Topics in Women's Health

An introduction to the many aspects of women's health. Topics covered include reproductive system anatomy, physiology of the menstrual cycle, breast cancer,

gynecological cancers, HIV/AIDS and other STDs, menopause, etc. Course content emphasizes both normal and abnormal conditions including symptoms, treatment options, and long-term effects as well as prevention. This course is designed for the general student of all ages, and for men as well as women. It also is a useful introduction to the subject for students preparing for careers in the healthcare profession. 3 Cr

BIO 107 Introduction to Human Diseases

This course will provide students with an overview of a range of infectious, chronic and genetic diseases. The prevalence, effects, prevention and/or treatment of each disease will be discussed. To the extent possible, given the lack of prerequisites, the etiology of the diseases will be examined. This will require the introduction of some basic genetic information and cell biology. 3 Cr

BIO 109 Special Topics in Biology

A course whose subject matter may come from any of a variety of topics in Biology. This course may be repeated for credit with different topics or at different levels. A lab may be included as part of the course. 1-4 Cr

BIO 110 Human Anatomy and Physiology

A study of the workings of the human body. The primary objective is to gain an understanding of how the healthy human body works. Discussion and investigations center around the form and function of individual body systems and their integration into the living organism we know as the human. Lecture 3 hours, laboratory 2 hours. 4 Cr

BIO 111 General Zoology

An introductory study of the diversity of animal organisms. Emphasis on the adaptations that shape animals to their environments. Specific topics begin with taxonomy, heredity, evolution, and ecology. These are followed by investigations into the physiological systems of animals on a comparative basis, including mechanisms of reproduction and development. Lecture 3 hours, laboratory 2 hours. 4 Cr

BIO 112 General Botany

An introductory course presenting the basic plant structures and their associated functions. Topics considered include the structure of plant cells, the organization of cells into tissues, the aggregation of tissues into organ systems, and the unification of organ systems in the whole plant body. Variations in structural features are examined for representative species in the different divisions of the plant kingdom. Functional attributes of plants considered include seed production and germination, plant growth and development, cell division, genetics and reproduction, photosynthesis, cellular respiration, mineral nutrition, and internal transport. Lecture 3 hours, laboratory 2 hours. 4 Cr

BIO 201 Marine Fauna & Macroalgae of Downeast Maine

This field-oriented course will introduce students to many of the marine organisms inhabiting various marine environments along the Downeast coast (Bar Harbor to Eastport). The course is intended to create a sense of excitement about marine environments through hands-on field sampling, identifications using guides and keys, and instruction on natural history and ecology. Each day, students will visit rocky shores, soft-bottom intertidal flats, sandy beaches, estuaries, marshes, or islands that will highlight the richness and diversity of marine life in eastern Maine. 3 Cr

BIO 206 Intro to Marine Biology

This is a survey of major marine ecosystems, including plankton, rocky intertidal, mudflat, marsh, coral reef and deep sea communities. Topics for each ecosystem include identifications, life histories, biology and ecology of dominant species. Field trips to local marine environments are used to develop identification skills, ecological techniques, experimental design, and statistical analysis of data. Students participate in toxic alga monitoring program for the Maine State Department of Marine Resources throughout the semester. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 111, BIO 112, and ENV 103; or equivalent. 4 Cr

BIO 209 Special Topics in Biology

A course whose subject matter may come from any of a variety of topics in Biology. This course may be repeated for credit with different topics or at different levels. A lab may be included as part of the course. 1-4 Cr

BIO 210 Human Anatomy & Physiology

A study of the workings of the human body. This course is designed for students interested in pursuing a career in one of the allied health fields such as nursing or physical therapy. The primary objective is to gain an understanding of how the healthy human body works. Discussion and investigations center around the form and function of individual body systems and their integration into the living organism we know as the human. Lecture 3 hours, laboratory 2 hours. Prerequisite: BIO 111 4 Cr

BIO 211 Field and Laboratory Techniques in Biology

This course may be used to learn a variety of field and laboratory techniques. Students develop topics in consultation with the faculty member who will direct the course. Examples of topics are sampling and identification of plankton, conducting amphibian and avian surveys, laboratory techniques in genetics and immunology, horticultural methods, vegetation sampling and analysis. Prerequisites vary with topics. 1-2 Cr

BIO 212 Ornithology

The remarkable adaptations of birds to flight traced through the study of their biology, behavior, and ecology. Comparisons of systematic groups demonstrate the interrelationships of anatomy with ecological roles and behavior. These and other topics are elucidated through dissection and examination of specimens. Frequent field trips to practice identification of birds by visual patterns, behavior and song, culminate in a predawn bird census. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 111 or equivalent. 4 Cr

BIO 216 Mammalogy

Provides an introduction to the ecological and evolutionary contexts that led to the radiation of mammals, and a strong grounding in the physiological/reproductive strategies that differentiate mammals from other tetrapods. Students are exposed to the common techniques used in studying mammals, including an introduction into DNA technology. The major orders of mammals is reviewed and important recent shifts in the classification are discussed. When appropriate, Maine mammals are used to illustrate concepts. Students further this emphasis through the preparation of museum-quality specimens or a research paper. Lecture 3 hours, laboratory 2 hours. Prerequisite: BIO 111 or equivalent. 4 Cr

BIO 218 Herpetology

This course will introduce you to the scope of Herpetology. General topics will include basic anatomy and physiology; including fascinating alternative reproductive strategies and physiological ecology. A survey of the modern families of amphibians and reptiles will include the relationships among them and their connections to the ancient tetrapod groups. Prerequisite: BIO 111. 3 Cr

BIO 221 General Microbiology

A survey of the biology of microorganisms, in particular the prokaryotes. Topics include a taxonomic survey of the microbes, regulation of cellular activities, and inheritance. Investigations into the interactions between microorganisms and humans and the role of microorganisms in the environment will round out student perspectives of these minute life forms. Laboratory investigations of each topic will emphasize safe lab practice, problem solving, analysis of data, and communication of results. Lecture 3 hours, laboratory 2 hours. Prerequisite: BIO 111 or BIO 112. 4 Cr

BIO 222 Cell Biology

A study of the properties of eukaryotic cells. As the smallest unit of life, the cell defines both the potential capabilities and inherent limitations of all forms of life. This course explores the structure, physiology, and biochemistry of cells, with the primary goal of developing an appreciation for the connections between the workings

of individual cells and the activity of the whole organism. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 111, BIO 112, CHY 102. (CHY 221 recommended.) 4 Cr

BIO 223 Marine Mammals & Pelagic Birds

The biology, ecology, and systematics of marine mammals and pelagic birds are studied through lectures and discussion of primary literature. During field trips students develop identification skills, censusing techniques and study of behavior of local species. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 111 or equivalent. 4 Cr

BIO 227 Invertebrate Zoology

This course is a survey of the great diversity of free-living and parasitic organisms without backbones. While terrestrial and aquatic groups are studied, marine organisms and their planktonic stages are emphasized. The anatomy, systematics, and biology of invertebrates are studied through lectures, collections, dissections, microscopy, and videotape. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 111 or equivalent, and sophomore or higher standing. 4 Cr

BIO 228 Forest Ecology

Lectures and field experiences develop or improve understanding and field skills for identifying and interpreting features in the variation of forest ecosystems over space and their processes of change over time. Focus is on variation in woody plant species and ecological characteristics; structure and development of tree stands and associated plant communities. Effects of forest soil and climate factors and processes ranging from individual plant environments to landscape scales; and evidence and effects of natural and cultural disturbances will be used to infer forest history. Some applications of this ecological information for forest values and management for various objectives will be discussed. Prerequisite: BIO 112, or ENV 105, or equivalent experience in id of woody plants. 3 Cr

BIO 229 Plant Taxonomy

An introduction to the identification, classification and evolution of vascular plants. Primary emphasis is on the angiosperms and conifers. Topics considered include the history of taxonomy, plant life cycles, taxonomically important anatomical and morphological features of plants, classification systems, and characteristics of selected plant families. Lecture and field work place approximately equal emphasis on knowledge of the local flora and recognition of important plant families. Laboratory work includes methods of specimen preparation, identification and mounting, and organization and maintenance of an herbarium. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 112. Offered fall semesters of odd-numbered years. 4 Cr

BIO 245 General Ecology

An introduction to the major ecological concepts of energy flow, community and population structure, nutrient cycling, competition, and predation demonstrated through the study of selected ecosystems. The influence of geological processes in New England on soil formation and community structure is studied in lectures and field trips. Students are introduced to sampling techniques, experimental design, and statistical analysis of data through field trips to local aquatic, marine, and terrestrial ecosystems. Prerequisite: BIO 111, BIO 112, MAT 102 (may be taken concurrently), or equivalents. 4 Cr

BIO 265 Genetics

An in-depth investigation into the mechanisms of heredity. The course builds strong foundations in Mendelian and molecular genetics. Topics covered include probability, pedigree analysis, the molecular biology of the gene, gene expression, mechanisms of mutation, and population's genetics. The laboratory portion of the course includes common organismal and molecular techniques used in whole organism genetic analysis and molecular biology. Lecture 3 hours, laboratory 3 hours. Prerequisite: BIO 111, BIO 112, CHY 101, CHY 102, MAT 102, or equivalents. (CHY 221 and MAT 215 recommended.) 4 Cr

BIO 305 Research Seminar

This course is designed to allow students to assimilate the multiple aspects of independent research in a group setting. There are six primary components of the course: 1) review of primary literature pertinent to the project, 2) presentations by invited experts in the field, 3) discussion of stakeholder perspectives and options for effective communication of data, 4) training and education on new technologies and techniques, 5) student presentations (data presentation and summary will be required) and 6) open discussion and trouble-shooting of individual research projects. The specific research topics addressed will change as the focus of the various research projects changes. This course can be taken multiple times. Co-requisites: Participation in a research project, such as Senior Thesis in Biological Research (BIO 404, BIO 405, BIO 406), an Independent Study research project, or permission of instructor. 1 Cr

BIO 309 Special Topics in Biology

A course whose subject matter may come from any of a variety of topics in Biology. This course may be repeated for credit with different topics or at different levels. A lab may be included as part of the course. 1-4 Cr

BIO 310 Special Topics in Mariculture

This course allows students to experience a wide range of topics in marine aquaculture through numerous approaches including classroom seminars where topics may range from the history of mariculture in the U.S. to the biology and culture of salmonids, bivalves, or

crustaceans. Additional options for students include hands-on activities involving culturing organisms in UMM's aquaculture research laboratory or attending outside seminars or conferences that involve the culture of marine organisms. May be repeated for credit as topics vary. May be offered pass/fail at instructor's option. Prerequisite: permission of marine biologists. 2-4 Cr

BIO 313 Ichthyology

The biology, ecology, and systematics of fresh and saltwater fish are studied through lectures, laboratories, and discussion of primary literature. Students develop skills in aging, identification, fisheries management, and aquaculture during laboratory and field trips. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 111 or equivalent. 4 Cr

BIO 315 Experimental Design & Analysis for Biologists

This course will introduce students to the most common and widely used experimental designs to generate biological data for both continuous and categorical variables. The emphasis will be on how to: 1) design resource-appropriate sampling programs; 2) avoid mistakes that make analyzing data difficult; and, 3) properly analyze data. Statistical methods such as analysis of variance, linear and non-linear regression, analysis of covariance, analysis of frequencies, and an introduction to multivariate analysis will be presented. Prerequisite: MAT 215. 4 Cr

BIO 323 Comparative Vertebrate Anatomy and Physiology

A study of the vertebrate animals exploring how the basic vertebrate pattern has been modified into the wondrous diversity of form and function found in the living vertebrates. Anatomical and physiological systems are studied on a comparative basis with an emphasis on the adaptive strategies employed by different vertebrates to cope with their unique environments. The interactions between individual systems of the animal body in maintaining homeostasis is also stressed. Lecture 3 hours, laboratory 4 hours. Prerequisites: BIO 111, CHY 102. (CHY 221 and PHY 112 recommended.) 5 Cr

BIO 332 Intro to Mariculture

A course that introduces students to topics in marine aquaculture, primarily mariculture in Maine. Topics include the history of mariculture in the state, water quality parameters, culture systems, life histories and ecology, public vs. private mariculture, feeding and nutrition, diseases within culture systems, and mariculture economics. UMM's mariculture facility is used to culture algae, shellfish, and finfish. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 111, BIO 112, BIO 206, or permission of instructor. 4 Cr

BIO 333 Plant Ecology

This course provides a general introduction to plant population and community ecology. Among the topics considered are the development and dynamics of plant community structure; plant population demography; species interactions; effects of disturbance on population and community structure and dynamics. Prerequisite: BIO 245. Offered fall semesters of even-numbered years. 4 Cr

BIO 340 Evolution

A study of the scientific theories and evidence related to the process of evolution. Topics covered include the mechanisms of evolution, molecular evolution, speciation, and the history of life. Lecture 3 hours. Prerequisite: BIO 265 or permission of instructor. (CHY 221 and MAT 215 recommended.) 3 Cr

BIO 350 Developmental Biology

A course combining the classical study of embryology with an emphasis on the genetic and biochemical control of development. Animal embryos are studied in the context of cell differentiation and formation of body pattern. Influences of the environment on developmental processes will also be investigated. Lecture 3 hours. Prerequisite: BIO 222, BIO 265. (BIO 323 recommended.) 3 Cr

BIO 352 Algal Biology

The purpose of this course is to instruct students in the taxonomy, evolution, physiology and ecology of marine and freshwater algae. This course will focus on 1) biotic and abiotic factors affecting the biology of macro and micro algae, 2) adaptations and responses of algae to environmental variation and alteration, 3) ecological functions, and 4) anthropogenic uses and economic importance of algae, including commercial and recreational shellfishing and aquaculture. Although this course will cover marine and freshwater algae, special consideration will be given to algal biology and ecology in coastal and open-ocean environments. Prerequisites: BIO 112, ENV 103, BIO 206, CHY 101, CHY 102, or permission of instructor. MAT 215 recommended. 4 Cr

BIO 355 Conservation Biology

A capstone course examining the principles and practices of measuring, maintaining, and enhancing biological diversity. The course focuses on applications of ecology, population biology, and genetics to the conservation of species and ecosystems. Laboratories may include computer simulations and fieldwork. Lecture 3 hours, laboratory 2 hours. Prerequisite: BIO 245; MAT 215 or higher; junior or senior standing; ENV 112 or BIO 265; or permission of instructor. 4 Cr

BIO 360 Marine Ecology

An advanced course in ecology comparing the population and community dynamics of a variety of intertidal and

subtidal hard-and soft-bottom, planktonic, and coral reef communities. Topics include spatial relationships, competition, prey-predator relationships, symbiosis, behavioral patterns, seasonal cycles, succession, larval strategies, and productivity. Through field and laboratory work students learn to design and conduct experiments, analyze data, and write research papers. Lecture 2 hours, laboratory 4 hours. Prerequisite: BIO 206, 227, 245, and MAT 215. 4 Cr

BIO 375 Population & Community Ecology

An advanced course for students with previous experience in ecology. Among the topics considered are competition, predator-prey interactions, population dynamics, life-history strategies, species diversity patterns, and community structure and regulation. Lecture 3 hours. Prerequisite: BIO 245 and MAT 215, or equivalent. 3 Cr

BIO 401 Senior Thesis in Biology

The BIO 401, 402, and 403 sequence is designed for students wishing to prepare an in-depth literature review of an aspect of Biology of particular interest. Students typically begin the sequence during the second semester of the junior year of study. Students first enroll in BIO 401, and in consultation with a thesis advisor, select a topic and prepare a bibliography and an outline of the paper. A grade of "pass" or "fail" is awarded. Prerequisite: 3.0 GPA within the major and overall, and approval by a thesis advisor. 1 Cr

BIO 402 Senior Thesis in Biology

In the second semester of the sequence, students enroll in BIO 402. During this semester, the bibliography is updated, and a preliminary draft of the paper is submitted to the thesis advisor. A grade of "pass" or "fail" is awarded. Prerequisite: 3.0 GPA within the major and overall, and approval by a thesis advisor. 1 Cr

BIO 403 Senior Thesis in Biology

In the third semester of the sequence, students enroll in BIO 403. A final draft of the paper is submitted to the Division of Environmental and Biological Science faculty. Students make an oral presentation of the topic and make any corrections to the paper required by the division faculty. A grade of "pass" or "fail" is awarded. Prerequisite: 3.0 GPA within the major and overall, and approval by a thesis advisor. 1 Cr

BIO 404 Senior Thesis in Biological Research

An opportunity for students to engage in independent research on a biological problem of interest to them. Such work involves field or laboratory experimentation, computer modeling, or a combination of methodologies. A student typically begins in the second half of the junior year of study. The student first enrolls in BIO 404. In consultation with a thesis advisor the student selects a research project, prepares a bibliography and preliminary

literature review, and submits a research proposal. SSC 320 Research Methods and Design may be substituted for this first semester. A grade of "pass" or "fail" is awarded. Prerequisite: MAT 215, a 3.0 GPA within the major and overall, and approval by a thesis advisor. 2 Cr

BIO 405 Senior Thesis in Biological Research

In the second semester of the sequence, the student enrolls in BIO 405. During this semester, the student completes the experimental portion of thesis work and prepares a draft paper. A grade of "pass" or "fail" is awarded. Prerequisite: MAT 215, a 3.0 GPA within the major and overall, and approval by a thesis advisor. 2 Cr

BIO 406 Senior Thesis in Biological Research

In the third semester of the sequence, the student enrolls in BIO 406. The student must submit a final draft of the paper to the Division of Environmental and Biological Science faculty. The student gives an oral presentation of the topic and makes any final corrections to the paper required by the division faculty. A grade of "pass" or "fail" is awarded. Prerequisite: MAT 215, a 3.0 GPA within the major and overall, and approval by a thesis advisor. 2 Cr

BIO 409 Special Topics in Biology

A course whose subject matter may come from any of a variety of topics in Biology. This course may be repeated for credit with different topics or at different levels. A lab may be included as part of the course. 1-4 Cr

BIO 410 Senior Seminar in Biology

Biology majors with a GPA less than 3.0 must take BIO 410 rather than one of the Senior Thesis sequences. This is a one-semester seminar course in which students can expect to have regular reading assignments and class discussions. The topic or topics are chosen in advance by the instructor. Students have an opportunity to investigate areas within the topic(s) of particular interest to them. Papers, oral reports, and/or exams are required at the discretion of the instructor. Prerequisite: Senior standing or permission of Instructor. 3 Cr

BIO 460 Seminar in Marine Ecology

A seminar course whose primary objective is to explore marine ecological concepts, themes, and paradigms of student interest. Students are assigned readings from primary literature and learn how to interpret those readings critically with respect to methodological design, results, and ultimate theses. Prerequisite: BIO 360. 3 Cr

BIO 482 Senior Seminar in Marine Biology

A course that will offer senior-level marine biology students interesting and challenging material of a topical nature. Readings will draw from both primary and secondary sources. Content is discussed in group settings. Students will investigate areas of particular interest to them through written and oral presentations.

Prerequisites: Completion of all other requirements within Marine Biology or permission of instructor. 3 Cr

BUS 111 Introduction to Business & Entrepreneurship

An introductory course providing knowledge of what business and entrepreneurship are all about. It is a basic course in business, economic and entrepreneurial literacy as well as organizational structures and functions, and provides an overview of the traditional business disciplines including marketing, finance, accounting, management, information systems, etc., and additionally forms the basis for subsequent studies. Competency and/or concurrent enrollment in basic reading, writing, and mathematics courses are a prerequisite for all business studies offerings with a prefix of ACC, BUS, MAN, or MAR. 3 Cr

BUS 212 Business Communications

A course designed to develop effective communication skills in the areas of writing, speaking, and listening. Emphasis is placed on appropriate formats for business communications including grammatical style, clarity, and conciseness of messages. Prerequisite: ENG 101. 3 Cr

BUS 221 Business Law I

A course designed to create an understanding of the fundamentals of business law and an awareness of the legal environment in which the business enterprise operates. Special emphasis is given to the basic principles of law that apply to business transactions of a contractual nature. Prerequisite: ENG 101. 3 Cr

BUS 222 Business Law II

A course designed for continued emphasis on the legal principles governing business transactions. Special emphasis is given to commercial paper, real and personal property, bailments, agency and employment. Prerequisite: BUS 221. 3 Cr

BUS 325 Business Ethics & Social Responsibility

This upper-level course gives the student a thorough introduction to important ethical issues that arise in the world of business, including the analysis of interests of all the individuals who hold a stake in the outcome of any business dilemma or decision. The course encourages students to open their minds to the variety of opinions on any given ethical issue. The results of this approach will be to help ensure that all stakeholder perspectives are considered. The course emphasizes the application of traditional ethical theories to modern decision-making. Finally, major emphasis will be placed on how and why ethical business behavior varies among countries and cultures. Prerequisite: Junior status or permission of instructor. 3 Cr

BUS 334 International Business

A course designed to introduce the student to this complex, interesting topic. The course is grounded in international trade and economic theory, and discusses such topical areas as marketing, management, and finance. Cross-cultural differences and related problems are emphasized. 3 Cr

BUS 400 Senior Seminar

A course designed to be taken by senior level business administration students. This course develops current and continuing issues in business for study. A major project or term paper allows students to hone their research and presentation skills. Open to Business Administration majors who have completed 84 cr. 3 Cr

BUS 420 Topics in Business

A course designed to provide in-depth study of special topics related to business. The course allows systematic study of topics that are identified as being of need and/or interest to particular groups. An elective course, it may be taken by qualified students and area educators depending on the specific topics being addressed. May be repeated for credit with different topics. Prerequisite: determined by instructor for each topic presented. 1-4 Cr

CHY 101 General Chemistry I

The first part of a two-semester introduction to the properties and behavior of matter at the atomic and molecular level: unites and definitions, chemical changes, stoichiometry, energy changes, structure and periodicity of atoms, nuclear chemistry, states of matter, and chemical bonding. The integrated laboratory provides concrete experience of concepts discussed. In most cases, students should plan to take both CHY 101 and CHY 102. Lecture 3 hours, laboratory 3 hours. Prerequisite: MAT 102 or equivalent. 4 Cr

CHY 102 General Chemistry II

A continuation of General Chemistry I dealing with kinetics, reaction rates, equilibria, acids and bases, simple thermodynamics, electrochemistry, metals and non-metals and, briefly, elements of organic and biochemistry. The integrated laboratory reinforces concepts from the lecture. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHY 101 or equivalent. 4 Cr

CHY 113 Intro to Forensic Science

This course will provide an examination of the basic principles and practices of forensic science. Integrative laboratory experiences will instruct students in scientific experimentation, basic forensic techniques (including a layman's discussion of microscopy, chromatography, electrophoresis, spectroscopy and spectrometry) and case studies will be examined as group exercises and individually. Topics will include an introduction to forensic science, criminology, trace evidence examination, serology, DNA analysis, toxicology, arson investigation,

questioned document analysis, medical examination, and the analysis of paint and gunshot residue samples. In addition, forensic psychology will be briefly discussed. Prerequisite: BIO 111 or BIO 112 or permission of instructor. 3 Cr

CHY 221 Organic Chemistry I

An introduction to the properties and reactivity of carbon compounds. Reactions are analyzed with an emphasis on the structural and mechanistic bases for reactivity. Nomenclature and basic analytical methods are also considered. The integrated laboratory reinforces concepts from lecture. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHY 102 or equivalent. 4 Cr

CHY 222 Organic Chemistry II

A continuation of Organic Chemistry I, including a survey of the major functional groups of carbon compounds. Knowledge of reactivity is applied to structural analysis and organic synthesis. The integrated laboratory reinforces concepts from lecture. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHY 221 or equivalent. 4 Cr

CHY 224 Analytical Chemistry

The goal of this course is to introduce students to the quantitative methods of chemical analysis and methods of analytical separations. Topics covered include the evaluation of analytical data; sampling and sample preparation; solution equilibria; a survey of various analytical methods including gravimetric methods, titrimetric methods, potentiometric methods, atomic and molecular spectroscopy, and chromatographic methods. Students completing this course will possess the skills necessary to accurately perform routine quantitative analyses of samples, use a governmental Standard Methods, and to judge the precision and reliability of their results. Lecture three hours, laboratory three hours. Prerequisite: CHY 102 or equivalent. 5 Cr

CHY 226 Undergraduate Research in Chemistry

The objective of this course is for the student to conduct an original research project under the supervision of a faculty member. The student will work in consultation with a research advisor to develop and undertake a research project in chemistry. A final written report is required. A grade of pass/fail is awarded. This course may be taken multiple times for credit. Prerequisite: CHY 102 and approval by a research advisor. 1-2 Cr

CHY 234 Environmental Chemistry

A course to acquaint students with the chemical aspects of environmental concerns including energy production and use, air and water pollution, pesticides and toxic wastes. The earth and its natural cycles are examined as are changes brought about by human technologies. Methods of monitoring chemical aspects of environmental change including analysis of air and water samples are presented,

as are means of ameliorating environmental damage. The integrated laboratory provides 'hands-on' experience with these techniques as well as field trips to areas of concern. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHY 102 or permission of instructor. 4 Cr

CHY 305 Research Seminar

This course is designed to allow students to assimilate the multiple aspects of independent research in a group setting. There are six primary components of the course: 1) review of primary literature pertinent to the project, 2) presentations by invited experts in the field, 3) discussion of stakeholder perspectives and options for effective communication of data, 4) training and education on new technologies and techniques, 5) student presentations (data presentation and summary will be required) and 6) open discussion and trouble-shooting of individual research projects. The specific research topics addressed will change as the focus of the various research projects changes. This course can be taken multiple times. Co-requisites: Participation in a research project, such as Undergraduate Research in Chemistry (CHY 226, CHY 326), an Independent Study research project, or permission of instructor. 1 Cr

CHY 322 Biochemistry

A study of the molecules of living systems: amino acids and proteins, enzymes, carbohydrates, nucleic acids and lipids. Structure/function relationships are applied in a survey of metabolism, photosynthesis, biosynthesis, immunochemistry, clinical chemistry, nutrition, and molecular biology. The integrated laboratory provides basic biochemical techniques and application of concepts discussed in lecture. Lecture 3 hours, laboratory 3 hours. Prerequisite: CHY 222 or equivalent. 4 Cr

CHY 323 Biochemistry II

This is the second course of a two-semester sequence, with integrated laboratory, designed to acquaint students with the molecules and reactions of living systems. The first half of the course will focus on metabolic processes, integration and regulation of metabolism, biosynthesis of carbohydrates, biosynthesis and biodegradation of lipids and nitrogenous compounds such as amino acids, nucleotides. The second half of the course will focus on current research in biochemistry, mostly at the cellular level, but also in the whole animal. Prerequisite: CHY 222 and CHY 322, or permission of instructor. BIO 222 and BIO 265 recommended. 4 Cr

CHY 326 Undergraduate Research in Chemistry

The objective of this course is for the student to conduct an original research project under the supervision of a faculty member. The student will work in consultation with a research advisor to develop and undertake a research project in chemistry. A final written report is required. A grade of pass/fail is awarded. This course may be taken

multiple times for credit. Prerequisite: CHY 102 and approval by a research advisor. 1-2 Cr

CMY 101 Introduction to Community Studies

Community is one of the fundamental concepts and units of study in the social sciences. This course will be primarily concerned with communities of place within the United States, although many of the conceptual and methodological approaches discussed could be applied to other forms of community and communities in other places. The course will survey the development of community study as a scientific endeavor, the conceptual tools employed in the study of communities of place, and common methodologies used to study a community. Class sessions will involve lectures, student project work, media presentations, and perhaps guest lectures from accomplished community researchers. Readings will include excerpts from classic community studies, contemporary journal articles and/or a community study or community development text book, and an in-depth examination of a contemporary, empirical community study research project. Course assignments will involve reading and writing tasks and a hands-on project that will focus on the production of a local community profile. 3 Cr

CMY 110 Downeast Documentary

This course provides the basics of video production, incorporating both lecture and laboratory experience. Students will learn about shot composition, sound, lighting, and editing, all from a digital video format. Students will produce and edit several projects from a variety of media formats, depending on the interests of the student. Prerequisite: Sophomore standing or permission of instructor. 3 Cr

CMY 215 Special Topics in Community Studies

Courses designed to allow students to pursue study in an area within Community Studies. Courses vary in response to student interest and demand. Prerequisite: Dependent upon course offered, or permission of instructor. 3 Cr

CMY 220 Soliya: Cross-Cultural Communication

Soliya's Connect Program is a unique cross-cultural education program that enables college students in the US and predominantly Muslim countries in the Middle East to collaboratively explore the relationship between the US and Muslim World with the aim of improving intercultural awareness and understanding. Participating students from across the globe literally see and hear one another in a rich and intimate online environment utilizing the latest in videoconferencing and online collaboration technology. Recognizing the profound role of media in shaping young adults' perceptions of other cultures, Soliya trains participating students to create and exchange video segments illustrating their perspectives on world events. Prerequisite: Sophomore standing and GPA of 3.0 or better or permission of instructor. 3 Cr

CMY 312 Soliya: Advanced Projects

Activities are designed to enable students to further expand upon skills they began to develop through their participation in the initial Soliya Connect program. Participating students will only be working on one of the following projects at a time. They will be able to participate again in another project if chosen. Each program will involve a small number of US and Middle Eastern students communicating regularly through the videoconferencing application used for the Connect program. Currently the advanced projects include facilitation training, collaborative video project, and student leadership/developing cooperative actions, each led by highly skilled educators within each field. Prerequisite: Sophomore standing, GPA of 3.0 or better, C or better in CMY/HON 220, or permission of instructor. 1-3 Cr

CMY 315 Special Topics in Community Studies

Courses designed to allow students to pursue study in an area within Community Studies. Courses vary in response to student interest and demand. Prerequisite: Dependent upon course offered, or permission of instructor. 3 Cr

CMY 415 Special Topics in Community Studies

Courses designed to allow students to pursue study in an area within Community Studies. Courses vary in response to student interest and demand. Prerequisite: Dependent upon course offered, or permission of instructor. 3 Cr

COOPERATIVE EDUCATION/INTERNSHIPS

The purpose of the Cooperative Education/Internship program is to provide practical experiences for students that complement their academic studies and introduce them to the world of work with its corresponding professional activities. These work-based learning experiences promote the application of theoretical knowledge and research skills acquired in the classroom to a productive and supervised experiential work site outside the formal classroom environment. Cooperative education and internships assist students in the career development process by enabling them to examine their abilities, values, and interests while applying them to an actual career experience.

One distinction between cooperative education and an internship is that co-op assignments are, more often than not, paid work experiences. Internships usually are non-paid, volunteer assignments and are often combined with additional readings and research.

The granting of academic credit for an approved work experience is determined by the student's faculty sponsor and the university coordinator after an examination of the following criteria: nature of the work to be performed, the proposed learning objectives, the number of weeks involved, and the anticipated hours per

week. Students must apply to the coordinator for cooperative education/internship before registering for the class. It is strongly recommended that planning and application for all cooperative education and internship experiences begin during the semester prior to participation.

Many fields of study 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, offices, and schools that provide the environmental opportunities to students sometimes impose additional requirements 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 personally accept and abide by the rules and regulations of that institution; the execution of an indemnity agreement or release relative to personal liability or liability to others; and similar requirements pertinent to the particular study program. The University assumes assent and compliance to such requirements, rules, and regulations by each student upon his or her enrollment in those courses involving outside study.

COE 201 Cooperative Education I

Basic, entry-level work-learning experience in an institution and/or business that relates to the student's career interests or academic field. Open to students who have completed a minimum of 24 cr. 1-6 Cr

COE 301 Cooperative Education II

Involves management or special project assignments related to the student's career interests or academic field. Students should have successfully completed a minimum of 48 credits. 6-10 Cr

COE 313 Community Experience

This course is meant to provide a professional experience for the student who has identified a specific career objective or graduate school objective and is interested in gaining significant experience in that field. This may be a volunteer or a paid position and may be combined with additional readings and literature research related to either the position itself or the student's specific career objective. A formal approval process is followed in which students meet with the faculty advisor with expertise in the area of interest and specify individual learning objectives for the community experience. The approval process precedes registration. After approval, students will attend a mandatory orientation workshop/meeting prior to the community experience and upon completion will attend a mandatory summative workshop/meeting. Prerequisite: Junior or senior standing. Additional prerequisites dependent upon proposed experience, or permission of instructor. 3 Cr

CSE 109 Topics in Computer Trends

A hands-on course designed to offer students the latest changes in technology and software. This course may be repeated for credit as topics change. 1-3 Cr

CSE 110 Word Processing Applications

This course provides hands-on instruction while giving students the opportunity to learn the most current word processing software used in business, industry and home applications. Students will have the guaranteed use of a computer during class to learn and apply advanced software features to various projects and problems. 3 Cr

CSE 115 Business Spreadsheet Applications

This course provides an introduction to basic, intermediate and advanced spreadsheet functions. Topics covered include creating, presenting and analyzing worksheets, charts and graphs, templates, filter lists, macros and hyperlinks. Students will complete and present a practical business spreadsheet as a final project. Uses Microsoft Excel and/or open source software. 3 Cr

CSE 118 Database Applications

This course provides an introduction to database design, functions and applications in business, education and the home. Practical and web applications will be stressed. Uses Microsoft Access and/or open source software. 3 Cr

DAN 101 Intro to Dance

Through floor work, barre, and combinations, students will learn the basics of Giordano Jazz Dance technique. Students will understand and be able to show basic dance technique and steps, and perform simple choreography. At the end of the semester, the class will present a finished production piece. 2 Cr

DAN 212 Intermediate Jazz Dance

Through floor work, barre, and combinations, students will learn the basics of Luigi and/or Fosse Jazz Dance technique. Students will understand and be able to show intermediate dance technique and steps, and perform basic choreography. At the end of the semester, the class will present a finished production piece. Prerequisite: DAN 101. 3 Cr

ECO 101 Evaluating Economic Choices

Basic economic concepts of opportunity cost, market mechanics, efficiency and equity are used to evaluate policy choices in a number of areas, including health and safety regulations, pollution control, distributive tax policies, etc. Not to be taken after completion of ECO 201 or 202. 3 Cr

ECO 201 Macroeconomics

An analysis of the behavior and performance of the aggregate, or overall, economy. Focuses on forces determining equilibrium output and income, employment, inflation, growth and economic stability.

The role for and effectiveness of government economic (fiscal and monetary) policy is considered. Prerequisite: sophomore standing and MAT 012 or equivalent, or permission of instructor. 3 Cr

ECO 202 Microeconomics

An analysis of the behavior and interaction of fundamental economic entities: households and firms. Topics include demand and supply, competition, monopoly, labor markets, international trade, and environmental policy. Prerequisite: sophomore standing and MAT 012 or equivalent, or permission of instructor. 3 Cr

ECO 204 Capitalism and Entrepreneurship

The course identifies and analyzes the features and characteristics of capitalism, including the relationships between economic and political freedom, the role of government, efficiency, fairness, growth, globalization and sustainability. Capitalism's strengths, weaknesses and challenges are considered within the context of post-World War II global economic history, with particular attention to the impacts of cultural and institutional diversity. Entrepreneurship is analyzed as the fuel and fire of capitalism, and the behavior and characteristics of entrepreneurs are considered. 3 Cr

ECO 223 Environmental Economics

In this course economic concepts and tools of analysis are applied to environmental and natural resource issues. Connections between the environment and the economy; methods of modeling natural resource and environmental problems; and techniques for measuring the value of environmental services are examined. Trade offs and incentives people face under different circumstances are considered; policy options for environmental protection and sustainable development are evaluated. Prerequisite: MAT 012 or permission of instructor. 3 Cr

EDU 112 School and Community

A pre-professional course required of all education majors. This course examines historical, philosophical and current educational issues. The role of the professional educator is a focus, and the student evaluates personal skills and aptitudes in light of expectations for the profession. An extended field experience is a major component of the course. 3 Cr

EDU 210 Educational Psychology

A course designed to help prospective teachers reflect upon the dynamics of learning and instruction. Theories of the cognitive, affective, and behavioral domains are related to classroom experiences. Other topics include: educational research, assessment and evaluation, individual and group differences, motivation, classroom management, and effective teaching. A field experience over an extended period of time is also a component of the

course. Prerequisite: PSY 201 or Permission of Instructor. 3 Cr

EDU 213 Teaching, Learning, and Technology

A course to provide students with an understanding of the ways technology can be used in school settings and to develop the skills to incorporate its use in a variety of educational tasks. The course includes an introduction to word processing, database, spreadsheets, and the Internet. 3 Cr

EDU 214 Topics in Education

Topics for pre-service and practicing teachers interested in education, pre-kindergarten through the secondary level. May be repeated for credit as topics vary. Prerequisite: vary by topic. 1-3 Cr

EDU 220 Elementary Social Studies Methods

This course is designed to acquaint students with the elementary social studies curriculum and the diverse ways this component of the curriculum has been, and continues to be, defined in American schools. Since this is ordinarily the student's first methods course, particular attention is paid to the instructional planning process. Students are introduced to a range of developmentally appropriate teaching strategies especially pertinent to historical and cross-cultural topics, but also to procedures and habits of mind that are transferable to teaching other areas of the curriculum. Diffused throughout the course is an appreciation for cultural diversity and the value of looking at situations from multiple perspectives. A practicum in local schools is a required component of the course. Prerequisite: EDU 112 and EDU 210; acceptance into upper-division study in elementary education program. 3 Cr

EDU 223 Children's Literature

A course that encourages extensive reading, discussing, enjoyment, and appreciation of books, periodicals and other literature for young people. Students are assisted in developing and using criteria for evaluating children's literature. Characteristics of various genres are discussed. In addition, some attention is given to oral storytelling, history, and other aspects that vary according to the interests and abilities of the particular class. This course is required for all elementary school education majors and is suggested as an elective for English majors and others who are interested in literature or who work with children. Prerequisite: ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

EDU 231 Math Modeling in Science Education

Students will examine great ideas in science, gain skills in processing scientific data, and develop mathematical models that represent physical and living systems. Numerous science experiments will be explored and demonstrated to generate experimental data that can be analyzed by participants as they curve, fit and develop system models. These skills are extremely

important because they will enable students to use mathematics and computers as scientific tools. Science and mathematics teachers, as well as students minoring in secondary or mathematics education, will benefit from this course. This course meets the science and mathematics education standards of the National Council of Teachers of Mathematics (NCTM) and the National Science Education (NSE). Prerequisite: Competency in MAT 102, 8 credits of science courses, or permission of instructor. Cr 3

EDU 301 Teaching and Learning

A self-designed supervised practicum experience involving tutoring; assisting a classroom teacher; and planning, implementing, and evaluating lessons in educational settings beyond the university classroom. Individual contracts are developed by the student, supervisor, and field practitioner for each experience. This course may be repeated for a total of no more than 9 cr. Prerequisite: EDU 210. .5-9 Cr

EDU 303 Reading, Writing and Study Skills in the Content Areas

A methods course designed to prepare prospective middle-level and secondary teachers in reinforcing, extending and refining reading, writing and study skills taught at 5-12 grade levels. Content includes instructional strategies used to develop comprehension, increase vocabulary, and promote study skills and writing specific to the various content areas in the curriculum. Consideration is given to the needs of exceptional children in the regular classroom. A practicum is required. Prerequisite: EDU 210 or permission of instructor. 3 Cr

EDU 312 Social Studies Education & Practicum

This course is designed to give prospective teachers a range of practical strategies for promoting active learning in social studies, strategies particularly appropriate for students in grades 5-8. Students will also be introduced to pertinent theoretical questions in the field. A practicum in local schools, including observation and presentation of a series of lessons, will provide students an opportunity to apply principles and insights acquired through social studies. Prerequisite or concurrent registration: EDU 313 and 24 credit hours of social science, or permission of instructor. 3 Cr

EDU 313 Curriculum Design and Program Evaluation

A course for prospective and in-service educators who seek training and experience in design, implementation, and evaluation of curricula. Philosophy, goals, and practices are considered as well as cultural, economic, political, and social influences on the curriculum. Prerequisite: EDU 210 or permission of instructor. 3 Cr

EDU 318 Evaluation in the Classroom

Examination, development, and use of a variety of means of evaluating student learning. Tests (both standardized

and teacher-made) and non-test techniques of assessment are considered as well as their implications for instructional planning. Topics such as alternative assessment, self-assessment, portfolio development, rubrics, statewide assessment, and grading are examined. Assessment and evaluation of exceptional students' progress are also considered. Prerequisite: EDU 220, EDU 313, or permission of instructor. 3 Cr

EDU 320 Topics in Education

Topics for pre-service and practicing teachers interested in education, pre-kindergarten through the secondary level. May be repeated for credit as topics vary. Prerequisite: vary by topic. 3 Cr

EDU 326 Mathematics in Special Education

This course is designed to help prospective education teachers understand the Maine Learning Results, national mathematics standards, instructional strategies and assessment techniques, and develop organizational structures related to teaching mathematics to diverse learners in elementary schools. Topics include problem-solving, finding numerical patterns, fractions and percents, measurement, characteristics of geometric shapes, developing positive attitudes toward mathematics, and the use of manipulative and computer software. Methods of adapting lessons for diverse learning needs and increasing the mathematics skills of inclusion children are the central issues to be addressed. Students will develop a sample Personalized Alternate Assessment Portfolio (PAAP) and will do a practicum at a local school. Prerequisite: SED 310 or permission of instructor. 3 Cr

EDU 332 Elementary Science Education Methods

A course designed to explore issues and strategies relevant to science teaching in an elementary classroom. Integrated science curriculum materials are designed, implemented and assessed in a field practicum. Inquiry-based models for science instruction such as project-based learning are explored, as are more traditional instructional techniques. The extended field practicum in a local elementary classroom is an integral part of the course. Prerequisite: EDU 220 or permission of instructor. 3 Cr

EDU 334 Integrated Reading & Language Arts Methods K-4

A course designed to assist prospective teachers in acquiring the competencies necessary to organize, instruct, evaluate, and manage the communication skills in the elementary/middle school programs. Course content focuses on the theories, approaches and related materials and effective practices in developmental listening, speaking, reading and writing in grades K-4. The focus is on an integrated approach to communication skills acquisition. Students are required to demonstrate competency in utilizing technology for skill reinforcement. Consideration is given to the needs of exceptional children

in the regular classroom. Prerequisite: EDU 220 and successful completion of Praxis I. 3 Cr

EDU 344 Mathematics in the Elementary School

A course designed to acquaint prospective elementary and middle-level teachers with the content, strategies, techniques, materials, and organizational structures related to teaching mathematics. Topics include problem solving, logical thinking, finding numerical patterns, transmitting positive attitudes towards mathematics, and the use of manipulatives and technology. Methods of increasing the mathematics skills of children with exceptionalities are addressed. A practicum is an integral part of the course. Prerequisite: EDU 220 or EDU 313, MAT 107, MAT 108, or permission of instructor. 3 Cr

EDU 345 Secondary English Methods

A course designed to acquaint prospective secondary teachers with current language development theory, curriculum methods, and materials for the effective teaching of composition, literature, and oral language. Issues such as state standards, assessment, censorship, use of technology, and the needs of mainstreamed exceptional students are included. A practicum is required. Prerequisite: EDU 313 and 24 cr in English, or permission of instructor. 3 Cr

EDU 347 Middle & Secondary Social Studies Methods

A course focusing on history as the traditional core of the social studies curriculum. Prospective middle and secondary school teachers explore the nature of historical knowledge and its relevance for students in grades 7-12. In addition to considering the practical implications of theoretical disputes in the field, students are equipped with a range of specific instructional strategies. A practicum in local schools, including observation and presentation of a series of lessons, provides students an opportunity to apply principles and insights acquired through the course. Prerequisite: EDU 313 and 24 cr in social sciences, or permission of instructor. 3 Cr

EDU 348 Middle & Secondary Mathematics Methods

This course provides students with experience and skills in planning, implementing and assessing learning and inquiry activities for the middle and secondary level mathematics classrooms. It will also assist students in developing a modern philosophy of mathematics education. Students will examine central concepts in mathematics, gain computer skills in processing scientific/mathematical data, and examine the process for representing physical systems as mathematical models. The students will develop inquiry activities that are aligned to standards-based mathematics curricula and apply them to class through practica. In an attempt to develop authentic assessments aligned to mathematics

education standards, students will also examine a comprehensive assessment system and critically evaluate assessment portfolios based on standards. This course addresses the standards of the Maine Learning Results, Maine Comprehensive Assessment System (MeCAS), Maine Education Assessment and the National Council of Mathematics (NCTM) standards. Prerequisite: EDU 313, 24 cr in mathematics, or permission of instructor. 3 Cr

EDU 349 Integrated Reading & Language Arts Methods 5-8

A course designed to assist prospective teachers in acquiring the competencies necessary to organize, instruct, evaluate, and manage the communication skills in the elementary/middle school programs. Course content focuses on the theories, approaches and related materials and effective practices in developmental listening, speaking, reading, and writing in grades 5-8. The focus is on an integrated approach to communication skills acquisition. Students are required to demonstrate competency in utilizing technology for skill reinforcement. Consideration is given to the needs of exceptional children in the regular classroom. A practicum is required. Prerequisite: EDU 220 or EDU 334. 3 Cr

EDU 351 Middle & Secondary Science Education Methods

This course provides students with experience and skills in planning, implementing, and assessing inquiry activities for the middle and secondary level science classrooms. It will also assist students in developing a modern philosophy of science teaching at the secondary level. Students will examine central ideas in science, gain computer skills in processing scientific data, and examine the process for representing physical and living systems as mathematical models. Students will develop inquiry activities that are aligned to standards-based science curriculum and apply them in class through the practicum. In an attempt to develop authentic assessments aligned to science education standards, students will also examine a comprehensive assessment system and critically evaluate assessment portfolios based on standards. This course addresses the standards of the Maine Learning Results, Maine Comprehensive Assessment System (MeCAS), and the National Science Education Standards (NSES). Prerequisite: EDU 210 and 16 credits of science or permission of instructor. 3 Cr

EDU 410 Reading and Writing for the Exceptional Student

A course designed to assist prospective elementary and middle-level teachers in acquiring competencies to diagnose the reading and writing needs of the learner, plan an appropriate remedial program, and evaluate reading and writing achievement for the exceptional student in the regular classroom. A practicum experience

is a requirement of the course. Prerequisite: EDU 333 or permission of instructor. 3 Cr

EDU 420 Topics in Education

This course allows systematic study of topics that are identified as being of need and/or interest to particular groups. An elective course, it may be taken by qualified students and area educators depending on the specific topic being addressed. The course may be repeated for credit with different topics. Prerequisite: determined by the instructor for each topic presented. 3 Cr

EDU 450 Middle School Seminar

An exploration of emerging philosophy and goals for the educating young adolescents. Topics to be considered include knowledge of adolescent development; the guidance/advisory role of teachers; school climate and community; knowledge of and respect for cultural diversity; respect for and accommodation to various talents, interests, and attitudes; and implementation of interdisciplinary, activity-based curricula. 3 Cr

EDU 460 Secondary School Seminar & Technology

This is an opportunity for secondary education students and in-service educators to explore current issues that affect high schools. Restructuring, curriculum integration, assessment processes, student health and social issues, and extra-curricular activities are among the topics which may be addressed. Class members select additional topics. In addition, this course will provide students with methods of integrating technology into the classroom. Prerequisite: EDU 313 or permission of instructor. 3 Cr

EDU 490 Student Teaching

A final field experience for elementary, middle-level, and secondary education students. Individually assigned university supervisors and carefully selected cooperating teachers in local schools provide a 15-week extended apprenticeship into the profession. Student teachers must also attend orientation sessions and seminars on campus designed to complement the student teaching experience. Prerequisite: acceptance by the Student Teaching Committee. Among other factors considered by the committee: (a) attainment of senior status; (b) acceptable academic standing; (c) successful completion of all required professional education courses; (d) successful completion of the writing sample; (e) completion of interview with education faculty; (f) continuing evidence of personal growth and responsibility; and (g) successful completion of Praxis I. 15 Cr

ENG 012 Developmental Writing Lab

Review of and practice in basic writing skills. Course format is primarily that of a writing workshop, but it may include supplementary self-paced computer-assisted instruction. Students in ENG 091 will establish competency in the essentials of written communication (grammar, sentence structure, punctuation, etc.) as well as

develop facility in the editing and revision processes. The ultimate goal of the course is to enhance students' ability to think critically, write effectively, and find pleasure in doing both. 3 Cr (Non-Degree)

ENG 101 Composition

A course to help students improve their skill in expository, analytical, and persuasive writing. Students will gain introductory research skills as they learn to write in relationship to other texts. Reading and grammatical skills are emphasized, so that students will learn to build solid prose that will be the foundation of their academic career. This course is required of all students. Prerequisite: appropriate English placement examination scores or equivalent. 3 Cr

ENG 113 Introduction to Humanities

Introduction to representative works across the humanities: literature, visual art, music, theater, and philosophy. Though the major emphasis falls on literature, half of the class focuses on the other disciplines. With primary interest in the Western tradition, non-Western cultures will also be examined. Students will investigate the ways works speak for and against the times that created them. The study promotes independent thinking skills and cultivates careful communication. Prerequisite: ENG 101, or permission of instructor. 3 Cr

ENG 114 Topics in World Literature

Provides glimpses of diverse worlds and helps students acquire the tools to understand and appreciate good literature. The literature of other cultures and places fascinates and educates the reader, not only because that literature often has enduring excellence but also because it gives us a new world of thought. Topics vary with semester and instructor. Prerequisite: ENG 101 or permission of instructor. 3 Cr

ENG 117 Intro to Literary & Cultural Studies

An introduction to the goals, methods, and implications of literary analysis in the 21st century. The underlying assumption is that there is no such thing as a generic or standard reading of a literary work; all readings take place in and depend on a critical framework, whether that be explicit or implicit. From this starting point, the course is constructed around several critical approaches. One of these is a formalist approach in which students interpret the literary text on the basis of its formal features and stylistic conventions. Students will then explore other opposing and overlapping critical approaches, including but not limited to, feminist, Marxist, historicist, and psychological. Prerequisite: ENG 101 or permission of instructor. 3 Cr

ENG 118 Topics in Contemporary Literature

Introduction to award-winning works of contemporary writers from around the world. This course allows students to feel part of a living tradition of writing, to

understand the artistic and technical concerns of contemporary writing, and the ideas and attitudes conveyed in that writing. The course is important both for those pursuing historical studies and criticism, and for those engaged in creative writing. Topics in Contemporary Literature will help students acquire an appreciation for good literature and the tools to help them understand and enjoy that literature more fully. Topics vary with semester and instructor. Prerequisite: ENG 101 or permission of instructor. 3 Cr

ENG 207 Studies in Composition & Grammar

A study of the basic theories and practices in modern grammar and usage, within the context of improving essay-writing skills. Although the course deals primarily with traditional grammar, introduction to generative, structural and transformational systems may also be considered. While students work on individual writing projects under the direction of the instructor, the class at the same time functions as a group to discuss readings and to critique student work to develop editing and revision skills. Prerequisite: ENG 101 or permission of instructor. 3 Cr

ENG 209 Selected Maine Authors

Maine's special contribution to the American literary scene. Specific authors to be studied are announced each semester this course is offered. The study might be organized in one of the following patterns: Maine poets: Longfellow, Coffin, Snow, Millay and Robinson; Maine novelists: Chase, Jewett, Carroll; Maine men of letters: Longfellow, Snow, Coffin, Day, Roberts, White. Prerequisite: ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

ENG 210 Beginning Creative Writing

An introductory writing course that focuses on the knowledge, attitudes, and techniques essential to successful creative writing. It is open to writers and aspiring writers of various levels of ability providing course prerequisites have been met. Genres treated include poetry, fiction, and creative nonfiction. While much of the course consists of a workshop format, lectures and class discussions cover such topics as sentence effectiveness, writer's block, dynamics of language, metaphor, meter, characterization, plotting, dialogue, narrative point of view, scene construction, revision, and publication. Prerequisite: ENG 101 with a grade of B- or better, or permission of instructor. Offered pass/fail or for a letter grade at the option of the instructor. 3 Cr

ENG 212 Topics in Literature

A course designed generally but not exclusively for non-English majors, focusing on a topic of the instructor's choosing and using literature and non-fiction as the documents for class discussion. The course may be repeated since the topics vary (e.g. fantasy, the occult, women writers, African-American literature).

Prerequisite: ENG 101 and a one 100-level literature course, or permission of instructor. 3 Cr

ENG 223 Children's Literature

A course that encourages extensive reading, discussing, enjoyment, and appreciation of books, periodicals and other literature for young people. Students are assisted in developing and using criteria for evaluating children's literature. Characteristics of various genres are discussed. In addition, some attention is given to oral storytelling, history, and other aspects that vary according to the interests and abilities of the particular class. This course is required for all elementary school education majors and is suggested as an elective for English majors and others who are interested in literature or who work with children. Prerequisite: ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

ENG 224 Studies in World Literature

This course involves an examination of cultural differences and transformations as seen through the lens of world literature's traditional canon. Students gain exposure to major writers of cultures and time periods other than their own, and analyze a variety of world literature masterpieces to determine how and why such works transcend their particular time and place. A variety of world views is examined, focusing on such themes as creation, death, love, heroes, and humor. Prerequisite: ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

ENG 227 Young Adult Literature

Designed to explore the needs and interests of adolescent readers, this course addresses the characteristics of young adult readers and the methodology of book selection for them. Focused on the enjoyment of reading for young adults, the course emphasizes familiarity with a wide body of adolescent literature, approaches to and bibliographic resources for its study, and methods for individualizing reading. Prerequisites: ENG 101 or permission of the instructor. 3 Cr

ENG 231 Techniques of Poetry

This course provides an opportunity to study poetry through the dual processes of observation and imitation, to understand how specific writing techniques produce effective poetry. Students are encouraged to study and duplicate-within the context of their own individual writing styles-the techniques employed by successful poets. Aspects of both a literature course and writing course are thus combined in pursuit of a pragmatic working knowledge of the techniques of poetry. Students will critically examine and then experiment for themselves with various forms of poetry, writing and revising both critical essays and poetry, reading and sharing their work in small writing workshop groups. Prerequisite: ENG 101

with grade of B- or better, or permission of instructor. 3 Cr

ENG 232 Techniques of Fiction

A survey course in contemporary fiction. This course focuses on literary works primarily as products of the writing process. Rather than interpreting stories or analyzing them with regard to a cultural milieu, the class will treat them as case studies for technique. The artists whose works have been selected for this course are generally innovators-that is, writers exploring the boundaries of traditional narrative, in both form and style. While the course is intended principally for students who are themselves interested in writing fiction, any student of literature may find such an approach useful and interesting. Prerequisite: ENG 101 with grade of B- or better, or permission of instructor. 3 Cr

ENG 233 Techniques of Creative Non-Fiction

Creative nonfiction is a genre defined by what it is not. It differs from other forms of nonfiction by possessing both an apparent subject and a deeper meaning, by its freedom from the usual journalistic requirements of timeliness and urgency, by taking advantage of such narrative devices as character, plot and dialogue, by its sense of reflection and finished thought, and by its serious attention to the craft of writing and aesthetic sensibility that goes well beyond the journalistic "inverted pyramid" style. This course provides the opportunity to study creative nonfiction through the dual processes of observation and imitation, to understand how specific writing techniques produce effective literature. Students are encouraged to study and duplicate-within the context of their own individual writing styles-the techniques employed successfully by published writers of creative nonfiction. Prerequisite: ENG 101 with grade of B- or better, or permission of instructor. 3 Cr

ENG 242 Periodical Production

This course will be an overview of and practicum for students who wish to study and produce periodical literature. The course will survey broadly a variety of periodicals both in terms of subject and of time, with the emphasis being on the small-scale periodical, especially the literary magazine. Prerequisite: ENG 101; ART 101 or ART 102, 100-level literature course; WRI 211; or permission of instructor. 3 Cr

ENG 301 Studies in Short Story

A study of various types of short stories from American, British, and world literature. Students will look carefully at the structure, style, and point of view in selected stories as they work on their own short story writing and/or the critical assessment of a body of works they have chosen. Prerequisite: ENG 117 and 6 cr of 200-level English courses, or permission of instructor. 3 Cr

ENG 302 Studies in Novel

A study of the growth and structure of the novel. The picaresque and the psychological, the comedy of manners, the historical, the gothic, the stream-of-consciousness, and other forms may be studied. The concept of the open novel, minimalism, and the journalistic novel may be explored. The novels are chosen from the canons of American, British, and world literature. Prerequisite: ENG 117 and 6 cr of 200-level English courses, or permission of instructor. 3 Cr

ENG 303 Studies in Poetry

A study of various poetries and poetics. Possible topics include metaphysical poetry, symbolist poetry, modern American poetry, contemporary poetry, and lyric tradition. Prerequisite: ENG 117 and 6 cr of 200-level English courses, or permission of instructor. 3 Cr

ENG 304 Studies in Film

A generic course covering various topics related to the genre of film. The specific emphasis of each offering is indicated by its subtitle and described in its syllabus. Students in this course view and analyze films according to historical, structural, socio-cultural, or other approaches, as determined by the instructor. Written assignments give students an opportunity to apply critical concepts learned in class. Prerequisite: ENG 117 and 6 cr of 200-level English courses, or permission of instructor. 3 Cr

ENG 315 Studies in Drama

A study of dramatic theory, history, and literature. Major playwrights, dramatic genres, theatrical periods, and movements are explored. May be repeated for credit. Prerequisite: ENG 117 and 6 cr of 200-level English courses, or permission of instructor. 3 Cr

ENG 322 Studies in Literature: Themes and Theories

Designed for upper-level English majors (but open to daring non-majors). This course offers various topics. It examines important literary themes or theories that thread through literature: the idea of the heroic, the awakening of women's voices, the historical critical theory. This course may be used to fulfill the genre requirements for English majors and may be repeated for credit. Prerequisite: ENG 117 and 6 cr of 200-level English courses, or permission of instructor. 3 Cr

ENG 325 British Literature Survey

Survey of English literature from the Anglo-Saxon period through Modernism. Students will gain familiarity with important authors and works from each period of British history. Students will also gain an insight into the changes in style and topic as reflected in the works of successive periods. More significantly, they will learn to recognize the period of a work by its style and be able to infer key

ideas about the work from its chronological placement. Prerequisite: ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

ENG 326 Book Arts II

This studio course will continue the study of Book Arts I using the book as a medium for the expression of the written word. The aesthetic integration of typography, text, page, paper and image through letterpress printing and other advanced printing and binding techniques will be explored. A copyrighted book project will be editioned beyond the prototype stage and marketed. Prerequisite: ART 216 or permission of instructor. 3 Cr

ENG 327 American Literatures

In this course students encounter the many faces of American literature. Selected works come from the colonial to the contemporary period of the United States by major writers from different backgrounds and points of view. Special emphasis rests on the multicultural nature of the American experience, and course readings reflect this diversity. This survey will typically be organized around a topic or theme - such as revolutionary struggle, iconoclasm, or the construction of the self. Students will explore readings in terms of artistry as well as impact on history - how the culture of the book in the United States shapes perceptions and gives a voice to collective goals. Learning activities may include community service as well as close readings, discussion, and formal and informal writing. Prerequisite: ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

ENG 330 A Sense of Place

A course offering students the opportunity to participate in a program emphasizing study and travel. Periodic trips have been planned to American or European locales in order that participants gain a better understanding of historic events and/or the people associated with these locales. 1-3 Cr

ENG 345 The Book, Culture, and Knowledge

The history of the book, a relatively recent and growing focus of scholarship, derives from the recognition of texts - literary, scholarly, popular, practical, and more -- do not float free. Even the Internet has not changed the fact that most texts are embodied in books, material forms produced not just by authors, but by larger commercial, governmental, religious enterprises. These enterprises, in turn, are shaped by their social, economic, cultural, and technological environment. This course seeks to expand student understanding of texts by foregrounding the broader cultural context through and in which they take form. The course will cover the history of technologies of writing, paper, manuscript production, and printing, the history of literacy, education and reading, as well as the history of the book. It will be attentive to the impact of different kinds of books -- scripture, subversive writings, and consumables -- on societies and across cultures. It

will consider the ways in which institutions have sought to control books. While the course is centered on the western tradition, it will include sections on non-western traditions and on the post-modern era Prerequisite: HTY 115, HTY 116, ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

ENG 352 Fiction Writing: Intermediate

Follows ENG 231 Techniques of Fiction in the creative writing sequence. A course on the writing of fiction, including such elements as story construction, narrative point of view, character, voice, and dialogue. Students will apply these elements both in exercises and in drafts of their own stories. Aside from some lecture and discussion, the course employs principally a workshop format. Offered pass/fail. 3 Cr

ENG 353 Poetry Writing: Intermediate

Follows ENG 232 Techniques of Poetry in the creative writing sequence and is intended for those students interested in pursuing the art of poetry writing. The course will function as a workshop or writer's group, in which both assigned exercises and works-in-progress by each student are read and critiqued by the other writers in the class and by the instructor. In addition, as class interest and need dictates, blocks of time may be devoted to lecture and/or discussion of the tools of prosody, particularly as they relate to the students' own writing. 3 Cr

ENG 441 Writing & Publishing Seminar I

The first of a two-semester sequence involving senior students in the English program in the production and publication of printed works, including broadsides, chapbooks, and a finished book. Works may be a collection of original poetry, short fiction, or creative non-fiction written by students taking the course and/or other authors. The publications will be conceived, designed, edited, proofed, and marketed by students, under the guidance of the instructor(s). Students in the Creative Writing, Literary Studies, and Book Arts concentrations will use their separate talents in the production of these works. Prerequisite: WRI 207, ART 216, Senior standing, or Permission of English faculty. 3 Cr

ENG 442 Writing & Publishing Seminar II

The second half of a two-semester sequence involving senior students in the English program in the production and publication of printed works. Whereas the first semester will focus on the conception, design, editing, proofing, and marketing, the second semester will focus on the production, printing, binding, copyrighting, and distributing of the works. Prerequisite: WRI 207, ART 216, ENG 441, Senior Standing, or Permission of English faculty. 3 Cr

ENG 451 Chaucer

An in-depth study devoted to the close examination of Chaucer's major works. Students will build on their previous knowledge of Chaucer, medieval culture, and literary theory, especially in their completion of an in-depth research project. Students will also learn to read Chaucer's language and appreciate his importance in the development of English literature. Prerequisite: 6 cr of 300-level English courses or permission of instructor. 3 Cr

ENG 453 Shakespeare

An upper-level seminar devoted to the close examination of Shakespeare's works, culture, and influence. Students will build on their previous knowledge of Shakespeare, early modern culture, and literary theory, especially in their completion of an in-depth research project. Prerequisite: 6 cr of 300-level English courses or permission of instructor. 3 Cr

ENG 459 Major Literary Figures

A seminar involved with an in-depth study of a major literary figure and the social, aesthetic, intellectual milieu surrounding his or her work. Students will build on their previous knowledge of these major figures, literary theory, and the culture of their era, especially in their completion of an in-depth research project. May be taken more than once for credit. Prerequisite: 6 cr of 300-level English courses or permission of instructor. 3 Cr

ENV 102 Atlantic Salmon Conservation Projects

Students in this course work with local watershed councils, state and federal agencies in the recovery of the endangered Atlantic salmon. As part of these projects, students will learn about the life history of the Atlantic salmon, its freshwater environment, the threats to its survival, and the processes underway to facilitate its recovery. Students learn how to measure water quality parameters, assess salmonid habitat, and the use of macroinvertebrates as biological indicators of water and habitat quality. Students may take the course more than once for additional credit with permission of the instructor. 2 Cr

ENV 103 Oceanography

An introduction to a variety of physical, chemical, geological and biological aspects of marine and oceanic environments. It provides an overview of topics and issues that are fundamental to a better understanding of oceanography and the marine environment. The course provides an introduction to local marine fauna and flora. 3 Cr

ENV 105 Intro to Trees and Wildflowers of Maine

A non-technical approach to the identification of commonly encountered trees and wildflowers of Maine. Students are introduced to basic plant structures and the techniques used for plant identification. Upon completion of this course a student should have an appreciation of the

diversity of plant life in Maine, a knowledge of the local flora and the various habitats in which different species occur, and the ability to identify additional plants that he or she may encounter in the future. May not be taken by students who have previously received credit for BIO 229. 2 Cr

ENV 111 Natural Resource Ecology

A general introduction to the natural resources of the United States and a specific introduction to the natural resources of Maine. Particular emphasis is placed upon development of an understanding that natural resources are extracted from ecological systems and, because of this, that long-term, sustained use of natural resources is subject to the constraints imposed by ecosystem structure and function. Historical patterns of natural resource development and utilization are examined within the context of social demand and economic forces. Natural resources considered include marine and freshwater fisheries, groundwater resources, wetlands, forest products, wildlife, natural resources used for energy production, and wild blueberry cultivation. Laboratories have a field trip format and are focused on studies of natural resource management, harvesting, and processing in Washington County. Lecture 3 hours, laboratory 2 hours. 4 Cr

ENV 112 Environmental Issues

A writing-intensive course providing an introduction to the broad areas of concern in environmental studies. Topics of consideration include an overview of ecosystems; population growth of plants, animals and humans; species extinction and preservation; natural resource use and conservation; air, water, and soil pollution and control; agriculture and world food production; 'pest' control; solid waste production and disposal. Prerequisite: BIO 111, BIO 112, or permission of instructor. 3 Cr

ENV 201 Special Topics in Environmental Studies

A seminar providing in-depth study of a selected topic of environmental concern. Examples of topics include environmental toxicology, conservation ecology, patterns in world population growth, the limits to growth, world hunger and food production, global issues in ecology, solid waste disposal, and methods of environmental education. Since the topics studied change each year, students may enroll in the course more than once for a maximum of 9 cumulative cr. Prerequisite: BIO 245, ENV 112, or permission of instructor. May be offered pass/fail at option of instructor. 2-3 Cr

ENV 203 Public Lands Issues

This course will introduce the unique ecological issues that impact our public lands; exploring many of the most important and controversial environmental issues. There will be an examination of the history of public lands, their conservation and uses, and the laws and policies that

govern their stewardship; including the major agencies charged with managing and protecting these lands and their resources, and the balancing of human activities with protecting wildlife and ecosystems. The course will include a discussion of the various scientific, economic, ethical and political debates related to ecological issues on public lands through an examination of historical and current texts. 3 Cr

ENV 212 Atlantic Salmon Conservation Projects

Students in this course work with local watershed councils, state and federal agencies in the recovery of the endangered Atlantic salmon. As part of these projects, students will learn about the life history of the Atlantic salmon, its freshwater environment, the threats to its survival, and the processes underway to facilitate its recovery. Students learn how to measure water quality parameters, assess salmonid habitat, and the use of macroinvertebrates as biological indicators of water and habitat quality. Students may take the course more than once for additional credit with permission of the instructor. Prerequisite: ENV 102. 2 Cr

ENV 213 Ecological Ethics and Values

This course exposes students to the deeper philosophical questions related to many of the more important environmental and ecological issues, including an examination of the historical and spiritual aspects of these questions. Students explore and discuss their own values related to the natural environment and ecological issues, and examine their values as they relate to other viewpoints. They examine such basic topics as human's role in nature, our stewardship of Earth, and our connection with the natural environment through a sense of place. Prerequisite: ENG 101; ENV 112 is also recommended. 3 Cr

ENV 220 Special Topics in Field Ornithology

A course, or series of courses, on a variety of topics for birdwatchers, amateur and professional ornithologists, and others interested in the lives of birds in their natural habitats. May be repeated for credit with different topics. Students should enroll at a level consistent with their ornithological experience. May be offered pass/fail at option of instructor. 2-3 Cr

ENV 223 Environmental Economics

In this course economic concepts and tools of analysis are applied to environmental and natural resource issues. Connections between the environment and the economy; methods of modeling natural resource and environmental problems; and techniques for measuring the value of environmental services are examined. Trade offs and incentives people face under different circumstances are considered; policy options for environmental protection and sustainable development are evaluated. Prerequisite: MAT 012 or permission of instructor. 3 Cr

ENV 226 Undergraduate Research in Environmental Studies

The objective of this course is for the student to conduct an original research project under the supervision of a faculty member. The student will work in consultation with a research advisor to develop a research plan and undertake an environmentally related research project. A final written report is required. A grade of pass or fail is awarded. Course may be taken multiple times for credit. Prerequisite: Approval by a research advisor. 1-2 Cr

ENV 301 Special Topics in Environmental Studies

A seminar providing in-depth study of a selected topic of environmental concern. Examples of topics include environmental toxicology, conservation ecology, patterns in world population growth, the limits to growth, world hunger and food production, global issues in ecology, solid waste disposal, and methods of environmental education. Since the topics studied change each year, students may enroll in the course more than once for a maximum of 9 cumulative cr. Prerequisite: BIO 245, ENV 112, or permission of instructor. May be offered pass/fail at option of instructor. 2-3 Cr

ENV 305 Research Seminar

This course is designed to allow students to assimilate the multiple aspects of independent research in a group setting. There are six primary components of the course: 1) review of primary literature pertinent to the project, 2) presentations by invited experts in the field, 3) discussion of stakeholder perspectives and options for effective communication of data, 4) training and education on new technologies and techniques, 5) student presentations (data presentation and summary will be required) and 6) open discussion and trouble-shooting of individual research projects. The specific research topics addressed will change as the focus of the various research projects changes. This course can be taken multiple times. Co-requisites: Participation in a research project, such as Undergraduate Research in Environmental Studies, an Independent Study research project, or permission of instructor. 1 Cr

ENV 312 Atlantic Salmon Conservation Projects

Students in this course work with local watershed councils, state and federal agencies in the recovery of the endangered Atlantic salmon. As part of these projects, students will learn about the life history of the Atlantic salmon, its freshwater environment, the threats to its survival, and the processes underway to facilitate its recovery. Students learn how to measure water quality parameters, assess salmonid habitat, and the use of macroinvertebrates as biological indicators of water and habitat quality. Students may take the course more than once for additional credit with permission of the instructor. Prerequisites: ENV 212. 2 Cr

ENV 320 Special Topics in Field Ornithology

A course, or series of courses, on a variety of topics for birdwatchers, amateur and professional ornithologists, and others interested in the lives of birds in their natural habitats. May be repeated for credit with different topics. Students should enroll at a level consistent with their ornithological experience. May be offered pass/fail at option of instructor. 2-3 Cr

ENV 326 Undergraduate Research in Environmental Studies

The objective of this course is for the student to conduct an original research project under the supervision of a faculty member. The student will work in consultation with a research advisor to develop a research plan and undertake an environmentally related research project. A final written report is required. A grade of pass or fail is awarded. Course may be taken multiple times for credit. Prerequisite: Approval by a research advisor. 1-2 Cr

ENV 401 Special Topics in Environmental Studies

A seminar providing in-depth study of a selected topic of environmental concern. Examples of topics include environmental toxicology, conservation ecology, patterns in world population growth, the limits to growth, world hunger and food production, global issues in ecology, solid waste disposal, and methods of environmental education. Since the topics studied change each year, students may enroll in the course more than once for a maximum of 9 cumulative cr. Prerequisite: BIO 245, ENV 112, or permission of instructor. May be offered pass/fail at option of instructor. 2-3 Cr

ENV 420 Special Topics in Field Ornithology

A course, or series of courses, on a variety of topics for birdwatchers, amateur and professional ornithologists, and others interested in the lives of birds in their natural habitats. May be repeated for credit with different topics. Students should enroll at a level consistent with their ornithological experience. May be offered pass/fail at option of instructor. 2-3 Cr

FIA 103 First-Year Seminar

This course is an introduction to the interdisciplinary fine arts, and, as such, it services to introduce the first-year IFA students to the various arts in the program and the interrelationships between and among them. Through a series of creative activities, reading, writing, presentations, and arts events, students will come to an understanding of the technologies and methodologies through which these arts are created and appreciated. 1-3 Cr

FIA 213 Sophomore Seminar

This course will build both on the First-Year Seminar and students' ongoing work in the Interdisciplinary Fine Arts program. Students will continue with their active exploration of the interdisciplinary fine arts, as they

collaborate in improvisational and formal arts productions, and continue to develop an understanding of the technologies and methodologies through which these arts are created and appreciated. Prerequisite: FIA 103 or sophomore standing. 1-3 Cr

FIA 219 Special Topics in Interdisciplinary Fine Arts

These courses will allow for further study in special fields within the fine arts. With an emphasis on interdisciplinary approaches, students will come to understand more fully a specific field or approach to the arts, to demonstrate the practical applications of this field of knowledge, to carry out appropriate research on limited subjects within the field, and to work in a collaborative atmosphere of creative expression. 1-3 Cr

FIA 222 Radio Broadcasting

This course intends to provide both a historical overview of radio and a hands-on experience with the WUMM campus radio station's equipment in producing and executing one's own weekly radio program. DJing, radio theatre, public service announcement and commercial preparation, broadcast journalism and production techniques are skills students will develop in the studio. Field trips to commercial and non-profit stations and a journal of critical/comparative listening to stations all along the dial will be other activities. Various radio formats will be discussed. Prerequisite: ENG 101 and SPE 104, or permission of instructor. 3 Cr

FIA 319 Special Topics in Interdisciplinary Fine Arts

These courses will allow for further study in special fields within the fine arts. With an emphasis on interdisciplinary approaches, students will come to understand more fully a specific field or approach to the arts, to demonstrate the practical applications of this field of knowledge, to carry out appropriate research on limited subjects within the field, and to work in a collaborative atmosphere of creative expression. 1-3 Cr

FIA 323 Junior Seminar

This course will build both on the earlier Interdisciplinary Fine Arts seminars and students' ongoing work in the BAIFA program. Students will continue with their active exploration of the interdisciplinary fine arts, as they collaborate in improvisational and formal arts productions, and continue to develop an understanding of the technologies and methodologies through which these arts are created and appreciated. In addition, juniors will begin preparations for their Senior Seminar and Senior Project. Prerequisite: FIA 213 or junior standing. 1-3 Cr

FIA 400 Senior Seminar

Senior Seminar offers students the opportunity to reflect on their learning and to share what they have learned

with others in the program. The Senior Seminar prepares students for the Senior Project. The purpose of the Senior Seminar is threefold: (1) to provide an opportunity for students to assess their learning; (2) to provide an opportunity for the program to assess its effectiveness; (3) to provide an opportunity through their reflections for students to share their experiences with others. The primary activity of the Senior Seminar is a portfolio review and assessment. Students will gather their work from their courses into a portfolio and write a narrative that will suggest the objectives they have reached and how they have reached them through a combination of courses and experiences. They will also use the Senior Seminar as a place to propose and justify their Senior Projects as an outgrowth and culmination of their learning. While students will work independently with a mentor from their concentration on the portfolio, all those enrolled in Senior Seminar will meet periodically to discuss common experiences and readings. They will share their portfolios with each other and make a formal presentation of their proposed culminating project. Finally, they will engage in a series of reflections upon the shape and usefulness of the program, which become part of the assessment for the program. Prerequisite: junior or senior standing in the program. 3 Cr

FIA 419 Special Topics in Interdisciplinary Fine Arts

These courses will allow for further study in special fields within the fine arts. With an emphasis on interdisciplinary approaches, students will come to understand more fully a specific field or approach to the arts, to demonstrate the practical applications of this field of knowledge, to carry out appropriate research on limited subjects within the field, and to work in a collaborative atmosphere of creative expression. 1-3 Cr

FIA 460 Senior Project

The capstone course in the Interdisciplinary Fine Arts Program. Students design and produce a significant work or presentation that meets the professional standards demanded of one working independently as an artist in the community. A faculty mentor will work closely with the student. Students will also meet with a committee composed of 3 faculty members or visiting artists. Prerequisite: FIA 400 or permission of instructor. Students should have completed a proposal in Senior Seminar and have acquired a mentor and a committee. 3 Cr

FRE 101 Elementary French I

An emphasis on developing skills in reading and writing, on comprehension and on practicing spoken French. The course provides students with opportunities for self-expression and encourages effective oral and written communication skills. Students begin to acquire a basic proficiency in French. They are introduced to the common phrases and vocabulary, the verb and noun

forms, and the grammar and structure of the language. 3 Cr

FRE 102 Elementary French II

A continuation of FRE 101 that takes the basic skills in French and builds from there allowing students to develop fluency in writing and speech. The emphasis is on developing skills in reading and writing, on comprehension and on practicing spoken French. The course provides students with opportunities for self-expression and encourages effective oral and written communication skills. Students work from texts centered in French culture, translate, compose essays and reports, and make oral presentations. Prerequisite: FRE 101 or prior knowledge of French with permission of instructor. 3 Cr

GEO 101 Intro to Geography

A course designed to introduce the student to world regional geography by studying developed and developing realms. Also surveyed are topical or systematic fields including geomorphology, climatology, geography of development, and urban, historical, economic, cultural, medical, population, resource and political geography. 3 Cr

GEY 111 Physical Geology

An introduction to the geological sciences with particular reference to Downeast Maine. Using local and regional examples, concepts in tectonics, paleontology, mineralogy, and other geological topics are addressed. Remote sensing, GIS, and other mapping technologies are introduced and applied. The connections between geology and ecology are recurrent themes in the course giving students the tools to appreciate the significance of geological processes in shaping the environment. Two weekly class discussions with alternating lab sessions and Saturday field trips to nearby geological attractions provide opportunities for students to develop both observation and interpretation skills. Prerequisite: MAT 012 or MAT 102. 4 Cr

GIS 201 Special Topics in Geographic Information Systems (GIS)

This special topics course gives students hands-on experience using the procedures, hardware, and software of GIS including the following: designing a field study; gathering and storing various forms of GIS data; data management, manipulation, summarization and analysis; presentation of results. Specific offerings will permit the students to participate in studies of a variety of regional sites or areas of interest, such as the Roosevelt International Park on Campobello Island, coastal trail systems of Downeast Maine, etc. Whenever possible the specific topic will be designed and coordinated with local regional agencies. Prerequisite: permission of instructor. 3 Cr

GIS 230 Geographic Information Systems (GIS) Applications I

Understanding the fundamentals of a GIS through lecture, readings and computer activities. Students will learn to use a specific GIS software system and to define and complete a simple GIS project using existing data. This computer-intensive course includes a detailed discussion of what a GIS is, why GIS is being increasingly used today, sample applications, basic map concepts, how geographic and descriptive data are stored in the computer, and the steps in a typical GIS project. Project discussions will focus on defining project objectives, building and managing the digital database, identifying the needed data, locating and acquiring the data in digital form, performing the analysis, and presenting results. Prerequisite: knowledge of Windows recommended. 4 Cr

GIS 301 Special Topics in Geographic Information Systems (GIS)

This special topics course gives students hands-on experience using the procedures, hardware, and software of GIS including the following: designing a field study; gathering and storing various forms of GIS data; data management, manipulation, summarization and analysis; presentation of results. Specific offerings will permit the students to participate in studies of a variety of regional sites or areas of interest, such as the Roosevelt International Park on Campobello Island, coastal trail systems of Downeast Maine, etc. Whenever possible the specific topic will be designed and coordinated with local regional agencies. Prerequisite: permission of instructor. 2-3 Cr

GIS 401 Special Topics in Geographic Information Systems (GIS)

This special topics course gives students hands-on experience using the procedures, hardware, and software of GIS including the following: designing a field study; gathering and storing various forms of GIS data; data management, manipulation, summarization and analysis; presentation of results. Specific offerings will permit the students to participate in studies of a variety of regional sites or areas of interest, such as the Roosevelt International Park on Campobello Island, coastal trail systems of Downeast Maine, etc. Whenever possible the specific topic will be designed and coordinated with local regional agencies. Prerequisite: permission of instructor. 2-3 Cr

HON 220 Soliya: Cross-Cultural Communication

Soliya's Connect Program is a unique cross-cultural education program that enables college students in the US and predominantly Muslim countries in the Middle East to collaboratively explore the relationship between the US and Muslim World with the aim of improving intercultural awareness and understanding. Participating students from across the globe literally see and hear one

another in a rich and intimate online environment utilizing the latest in videoconferencing and online collaboration technology. Recognizing the profound role of media in shaping young adults' perceptions of other cultures, Soliya trains participating students to create and exchange video segments illustrating their perspectives on world events. Prerequisite: Sophomore standing and GPA of 3.0 or better, or permission of instructor. 3 Cr

HON 303 Honors Seminar

These seminars explore in depth a major academic theme or problem. Honors Seminars are highly interactive courses, intensive in both writing and discussion, in which students engage in intellectual inquiry from multiple perspectives. Subject matter varies by semester, and may be either interdisciplinary or grounded in a single discipline. Recent examples include Perspectives on Literacy; Belief Systems and the Nature of Reality; Religion and Spirituality, and Interdisciplinary Perspectives on Time. May be repeated for credit with different topics and used to fulfill UMM Core Curriculum requirements in any appropriate area. Prerequisite: 3.00 GPA. 3-4 Cr

HON 312 Soliya Advanced Projects

Activities are designed to enable students to further expand upon skills they began to develop through their participation in the initial Soliya Connect program. Participating students will only be working on one of the following projects at a time. They will be able to participate again in another project if chosen. Each program will involve a small number of US and Middle Eastern students communicating regularly through the videoconferencing application used for the Connect program. Currently the advanced projects include facilitation training, collaborative video project, and student leadership/developing cooperative actions, each led by highly skilled educators within each field. Prerequisite: Sophomore standing, GPA of 3.0 or better, C or better in HON 220, or permission of instructor. 1-3 Cr

HTY 115-116 World History

This two-semester sequence provides a brief panorama of the human story and helps students develop historical skills. Students learn how to ask meaningful questions and how to go about finding the answers. They collect evidence by analyzing primary sources and artifacts and interpret the evidence they collect. They evaluate the interpretations of others, and will come to recognize the significance of the past in contemporary life.

HTY 115 World History to 1500

The first half of the world history sequence covers the time from the first emergence of Homo Sapiens to the establishment of regular, ongoing, contact between the Americas, Europe, Africa, and Asia. This lengthy period saw the biological development and worldwide dispersal of human beings, the emergence of agriculture, cities,

writing, organized religions, complex social organization and political institutions, and the creation of distinct cultural traditions. The course features cultural interactions and comparisons. 3 Cr

HTY 116 World History since 1500

The second semester of the sequence examines world history from the 16th century to the present. This much shorter period saw enormous increases in trade, cultural, political and military interaction among all regions of the world. A major theme of this era is colonialism, the rise of European state, economic, and cultural power, and the reactions of the non-Western world to that power. 3 Cr

HTY 201 American History I

This course is a broad survey of American history from the colonial era through the Civil War. Native-American encounters with Europeans, Southern slavery, religious revivals, reform efforts, and the course of democracy are all featured in this course. 3 Cr

HTY 202 American History II

This semester covers developments in United States history from the end of the Civil War to current times. Immigrant experiences, industrialism, reform efforts, wars, economic turmoil, civil rights, and current issues are explored in this half of the survey. 3 Cr

HTY 207 History of Modern Middle East

This course seeks to explore the historical roots of contemporary challenges in one of the most volatile places in the world: the Middle East. Topics that may be discussed include the rise and fall of the Ottoman Empire, the Arab/Israeli conflict, the impact of oil production on the region, Arab nationalism, the evolution of political Islam, the rise and fall of Baathist Iraq, and gender roles in the 20th century Middle East. Prerequisite: HTY 116 or permission of instructor. 3 Cr

HTY 219 Topics in History

The topic of this course varies in response to student interest and faculty availability and expertise. 3 Cr

HTY 223 Introduction to Historical Studies

The simplest and most complex of the humanities or social sciences, history is grounded in the human urge to make sense of the present by telling stories about the past. Students tend to share the general public's notion that history presents a series of established facts, which may be entertaining or enlightening. This course seeks to correct that view by exploring the diverse repertoire of assumptions, goals, approaches, and interpretations among historians past and present. While introducing the history of history and theoretical issues surrounding its practice, the course is also a practical introduction to reading, writing, and research within the discipline. Prerequisite: Successful completion of or concurrent enrollment in ENG 101. 3 Cr

HTY 225 History of Early Modern Europe

A survey of European society, culture, economy and politics from the end of the Middle Ages to the French Revolution. This extraordinary period saw the development of the modern state, upheaval in religious and scientific ideas and institutions, and the transformation of the economy and social structure through exploration, the growth of commerce, population, and cities. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 226 History of Modern Europe

This course continues the survey of European history through the political and economic transformations of the French and Industrial Revolutions and the subsequent growth of modern ideologies and institutions. The course explores these changes in relation to the lives of ordinary people, examining the impact of technological change, urbanization, the growth of public opinion, social and ideological conflict. Beyond that we will consider World War One, the Bolshevik Revolution, the decline of liberalism, the rise of Fascism and Nazism, and World War Two. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 250 History of China

Rather than identify one China, this course aims to assemble as many disparate elements of the Chinese past as possible, thereby complicating what is otherwise simplified as the world's longest continuous "civilization." One of the central themes is the question of daily life, or the lived experience of different groups within Chinese society. Focusing on issues of daily life will allow us to avoid imagining China as a monolithic structure marked only by a succession of dynasties and gain a better insight into the tensions that have formed Chinese society. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 251 Intro to African History

This course will introduce students to the richness and diversity of African history from the Neolithic period through the late twentieth century. This course will be organized around major themes in African history. Topics covered in this course may include the Atlantic slave trade, the rise of large states, colonial occupation, women's experiences in the colonial and post-colonial period, apartheid in South Africa and the Rwanda genocide. Prerequisite: HTY 115 and HTY 116 or permission of instructor. 3 Cr

HTY 252 History of South Asia

This course provides an introduction to the cultures of South Asia, which includes the modern countries of India, Pakistan, Bangladesh, Sri Lanka, Afghanistan and Nepal. By focusing on cross-cultural interactions, we will explore the dynamism that marks South Asian cultures. Topics

include early Indian cultures; Hinduism, Buddhism and other religions; the impact of Islam on India; British imperial rule of India; the growth of Indian nationalism and the impact of Gandhi, Nehru and other key individuals in the Nationalistic movement; post-Independence development and the problems of India in a complex regional and global context. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 301 Maine and Local History

A chronological survey of Maine's economic, cultural, and political life from prehistory to the present. Themes include the impact of national developments on Maine, the role of location and physical environment in shaping life here, and sources of internal tension and division. Independent research on local history is a major component of the course. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 307 American Economic History

An examination of the development and growth of the United States economy from Native American settlements to the present. Topics include sectoral history (finance, transport, maritime, etc.), the economics of war and slavery, the depression, post-war policies and prospects for the future. 3 Cr

HTY 311 Medieval Europe

This course examines aspects of the civilization that developed in Europe between the fall of the Western Roman Empire in the 5th century C.E. and the beginning of the modern world in the 16th century. Topics include encounters with Vikings, Muslims, and the Byzantine Empire as well as the emergence of key institutions such as the Roman Catholic Church, feudalism, monarchy and the state, peasant society, towns, trade, and universities. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 316 The Age of the French Revolution

This course considers the French Revolution both as the culmination of the 18th century—a period of rapid economic, social, and intellectual change—and as a major source of 19th- and 20th-century ideologies, myths, and political struggles. We will examine the course of the Revolution and its cultural representation as well as its causes and impact. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 318 The Age of Imperialism

This course introduces students to theories and practices of European takeover in the non-Western world. Examining the impact of empire on both colonized and colonizer, we will explore themes such as race, gender, and sexuality; travel and exploration; ideologies of colonial rule; the economics of empire; and resistance to imperialism and criticisms of empire. Special attention is paid to how novelists, artists and film makers have

viewed imperial society. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 320 Topics in World History

This course is organized around a particular theme or issue that spans different times and locations. The course, which may be taken more than once, allows students to pursue the study of topics not covered in-depth in other courses. Recent offerings have included Tyrannies of the Twentieth Century, Comparative Slavery, and the British Empire. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 324 World War One and the 20th Century

This course uses the study of World War One to explore larger issues in 20th-century life. We will consider pre-war European society, diplomacy and the outbreak of the war, the combat experience, experience at the home fronts, the transformation of the state, global impact, the peace settlement, and the struggle over the war's meaning and how to commemorate it. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 325 Global Environmental History of the 20th Century

The course will offer students the opportunity to explore different topics and research methodologies in global environmental history in the 20th century. Students will explore the varied ways environmental historians work. Topics to be discussed will include: the impact of conservation policies, Communism and the environment, deforestation, the rise of environment-oriented political movements, and a comparison of ecological crises. Prerequisite: HTY 116 or permission of instructor. 3 Cr

HTY 330 A Sense of Place

A course offering students the opportunity to participate in a program emphasizing study and travel. Periodic trips have been planned to American or European locales in order that participants gain a better understanding of historic events and/or the people associated with these locales. 1-3 Cr

HTY 331 History of Women in Early Modern Europe

This course seeks to uncover the lives of women from all classes in Europe between 1400 and 1800. We will consider the connection between their lives and historical trends of the period such as religious reformation, the rise of capitalism, the growth of literacy, print culture, and science. Topics will include the witch-hunts, the ideology of womanhood, folk traditions, women's roles in the family economy and in the public sphere. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 332 History of American Women

This course traces the development of women's many roles from the colonial era to modern times. Students will discover how American women from different races, ethnic groups, regions, and classes experienced what it meant to grow up female in America at different historical times, and how these women confronted and created changing concepts of womanhood. Prerequisite: HTY 201 and 202, or permission of instructor. 3 Cr

HTY 333 Women in the 20th-Century World

Notions of gender and sexuality have played a key role in defining what we understand as the modern world. This course explores the links between gender, sexuality and power in the 20th century around the world. Issues covered include ideas of masculinity and nationalism; the impact of multinational corporations on the status of women; the sex industry; notions of beauty and the media; and violence and the lives of women. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 340 History of the Social Sciences

This class explores the emergence and development of the academic disciplines anthropology, psychology, and sociology. Through close readings of classic texts by European and American thinkers such as John Locke, Jean-Jacques Rousseau, Adam Smith, Charles Darwin, Karl Marx, William James, Jane Addams, Max Weber, and Sigmund Freud, the course explores attempts to apply the methods of science to human behavior. In part a history of ideas, the course is attentive to how the broader historical context shaped thinkers and to the development of the institutions that nurtured them. Why did the social sciences emerge when and as they did? Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 341 Native American History

This course explores the traditions and experiences of the North American indigenous peoples from the hunter-gatherers of prehistory, through encounters with Europeans, and into the modern period of resistance and resurgence. Students will examine the demographic, economic, and social consequences of contact with Europeans, and the various struggles Native Americans adopted for survival and persistence. Prerequisite: HTY 201 and 202, or permission of instructor. 3 Cr

HTY 342 African American History

This course provides a broad survey of the lives of Africans in America from the time of their first arrival in the colonies, through the experiences of slavery and freedom, to the Civil Rights movement and current times. The course addresses the interrelated issues of race, class, culture, and identity. Prerequisite: HTY 201 and 202, or permission of instructor. 3 Cr

HTY 345 The Book, Culture, and Knowledge

The history of the book, a relatively recent and growing focus of scholarship, derives from the recognition of texts -- literary, scholarly, popular, practical, and more -- do not float free. Even the Internet has not changed the fact that most texts are embodied in books, material forms produced not just by authors, but by larger commercial, governmental, religious enterprises. These enterprises, in turn, are shaped by their social, economic, cultural, and technological environment. This course seeks to expand student understanding of texts by foregrounding the broader cultural context through and in which they take form. The course will cover the history of technologies of writing, paper, manuscript production, and printing, the history of literacy, education and reading, as well as the history of the book. It will be attentive to the impact of different kinds of books -- scripture, subversive writings, and consumables -- on societies and across cultures. It will consider the ways in which institutions have sought to control books. While the course is centered on the western tradition, it will include sections on non-western traditions and on the post-modern era. Prerequisite: HTY 115, HTY 116, ENG 101 and a 100-level literature course, or permission of instructor. 3 Cr

HTY 351 Topics in American Colonial History

Topics in Colonial American History provides an in-depth exploration of an issue or development pertinent to Colonial Americans between the encounters of the 16th century and the time of the American Revolution. Topics might include Indian-White relations, American identity, regional patterns, religions, or early society. Prerequisite: HTY 201 or permission of instructor. 3 Cr

HTY 352 Topics in 19th-Century American History

Topics in 19th-century American History focuses on specific trends and issues relevant to the period. Topics could include Civil War and Reconstruction, popular culture, reform efforts, class and labor issues, race and ethnicity, or religious and intellectual developments. Prerequisite: HTY 201 and 202, or permission of instructor. 3 Cr

HTY 353 Topics in Modern American History

Topics in Modern American History examines themes emerging over the course of the American 20th century. Topics might include the nation's rise to global power, immigration, war and society, social movements, the role of government, or changes in the family. Prerequisite: HTY 202 or permission of instructor. 3 Cr

HTY 371 US Foreign Policy and the World

This course explores the role of the United States as a global power in the 20th century. Students are asked to weigh the role of economic, strategic, and moral concepts in the formulation of American policy. Topics the course may cover include the end of World War One, the rise of

fascism, Pearl Harbor, the decision to drop the atom bomb, the Cold War and Vietnam, the post-Cold War era and the War on Terror. Prerequisite: HTY 115 and 116, or permission of instructor. 3 Cr

HTY 400 Historiography

This course explores the practice of the craft of history from the ancient Greeks to postmodernism. We discuss how and why people have thought about, investigated, and used the past, as we explore changing ideas of the purpose, value, meaning, and method of historical inquiry. Prerequisite: junior or senior history major, or permission of instructor. 3 Cr

HUM 113 Introduction to Humanities

Introduction to representative works across the humanities: literature, visual art, music, theater, and philosophy. Though the major emphasis falls on literature, half of the class focuses on the other disciplines. With primary interest in the Western tradition, non-Western cultures will also be examined. Students will investigate the ways works speak for and against the times that created them. The study promotes independent thinking skills and cultivates careful communication. Prerequisite: ENG 101, or permission of instructor. 3 Cr

IND 301 Independent Study and/or Research

This course allows students the opportunity to pursue in depth or in alternative ways areas of study not otherwise readily available. Students contemplating such an approach must consult with their faculty advisors well in advance of the development of a prospectus, which should outline the purpose of the study and describe the proposed learning outcomes, methodology, and evaluation techniques. An approved application for independent study must be filed with the Registrar's Office at the time of registration for courses. The student may enroll in only one such course per semester and may accumulate a total of 12 credits toward a degree through independent study. Exceptions to these restrictions may be made with the approval of the Vice President for Academic Affairs. May be taken pass/fail at the option of instructor. Applicants must have at least junior standing in a degree program with a cumulative grade point average of 3.0 or above in their major. .5 - 4 Cr

IND 302 Independent Study and/or Research

This course allows students the opportunity to pursue in depth or in alternative ways areas of study not otherwise readily available. Students contemplating such an approach must consult with their faculty advisors well in advance of the development of a prospectus, which should outline the purpose of the study and describe the proposed learning outcomes, methodology, and evaluation techniques. An approved application for independent study must be filed with the Registrar's Office at the time of registration for courses. The student may enroll in only one such course per semester and may

accumulate a total of 12 cr toward a degree through independent study. Exceptions to these restrictions may be made with the approval of the Vice President for Academic Affairs. May be taken pass/fail at the option of instructor. Applicants must have at least junior standing in a degree program with a cumulative grade point average of 3.0 or above in their major. 1 – 3 Cr

IND 401 Independent Study and/or Research

This course allows students the opportunity to pursue in depth or in alternative ways areas of study not otherwise readily available. Students contemplating such an approach must consult with their faculty advisors well in advance of the development of a prospectus, which should outline the purpose of the study and describe the proposed learning outcomes, methodology, and evaluation techniques. An approved application for independent study must be filed with the Registrar's Office at the time of registration for courses. The student may enroll in only one such course per semester and may accumulate a total of 12 cr toward a degree through independent study. Exceptions to these restrictions may be made with the approval of the Vice President for Academic Affairs. May be taken pass/fail at the option of instructor. Applicants must have at least junior standing in a degree program with a cumulative grade point average of 3.0 or above in their major. 1 – 6 Cr

IND 402 Independent Study and/or Research

This course allows students the opportunity to pursue in depth or in alternative ways areas of study not otherwise readily available. Students contemplating such an approach must consult with their faculty advisors well in advance of the development of a prospectus, which should outline the purpose of the study and describe the proposed learning outcomes, methodology, and evaluation techniques. An approved application for independent study must be filed with the Registrar's Office at the time of registration for courses. The student may enroll in only one such course per semester and may accumulate a total of 12 cr toward a degree through independent study. Exceptions to these restrictions may be made with the approval of the Vice President for Academic Affairs. May be taken pass/fail at the option of instructor. Applicants must have at least junior standing in a degree program with a cumulative grade point average of 3.0 or above in their major. 1 – 3 Cr

INS 102 International Student Exchange: Bath Spa University

This semester-long study at the Bath Spa University in England is individually designed, in collaboration with the student's advisor, to further the student's program of study while providing the unique opportunity of a study abroad experience. Please see the Office of Academic Affairs for further information. Prerequisite: must have sophomore standing and a 2.5 cumulative gpa. 15 Cr

INT 200 Interdisciplinary Studies

Interdisciplinary studies offer models of how informed people educate themselves by examining ideas, issues, and values through gathering, analyzing, and integrating new information; and through recognizing their own and others' assumptions with discernment and sympathy. The course exposes students to a variety of disciplines outside their own specialties. It introduces students to a diversity of views, peoples, and ideas, and connects these diverse phenomena to each other and to the individual. Topics vary and include different cultures, historical periods, human values, viewpoints, and problems. Recent topics have included Views of the Sea; Paradigms of Conflict, Health and Disease; Conspiracy Theories; and Interdisciplinary Perspectives on Time. May be taken pass/fail or for a letter grade. 3 Cr

MAN 232 Supervision

Focusing on the daily activities of a first-line supervisor providing potential and practicing supervisors practical knowledge for developing supervisory skills and applying management theory through decision making. Since first-line supervisors are responsible for implementing middle managers' operational plans, they supervise employees who do not hold management positions, but who make the products, wait on the customers, perform repairs, etc. First-line supervisors are often titled employment supervisor, head nurse, office manager, or shift manager. This course enables the student to gain an understanding of what supervisors do through application questions, skill-building exercises to simulate situations commonly faced in business. Models for performance for the basic functions of supervision, as well as how to solve common supervisory dilemmas, are studied. Application situations and cases applying knowledge from text to actual life situations, and learning how to make a smooth transition from worker to supervisor considered. Prerequisite: ENG 101 and 102, or permission of instructor. 3 Cr

MAN 301 Management

Designed to present management as a science, an art, and a profession. The course emphasizes both the theoretical and the practical, presenting management as a process of utilizing organizational resources to achieve specific objectives through the functions of planning, organizing, leading, and controlling. 3 Cr

MAN 302 Small Bus Management & Entrepreneurship

This course is designed for business majors but is not exclusive to them, as other students may elect the course. The course focuses on small business and entrepreneurial process. Topics include, but are not limited to, such areas as: entrepreneurship opportunities, starting from scratch or joining an existing business, developing a business plan, the customer, growth strategies and managing growth. 3 Cr

MAN 318 Human Behavior in Organizations

The interaction of formal organization structure with the human intellect and personality, which includes studying cultural diversity as it pertains to human behavior in organizations. The course is designed to enable the student to understand and examine important characteristics of an organization. The concepts enable the student to analyze, understand, predict and influence human behavior in that organization, thus creating a personal tool that will help increase personal effectiveness and achievement. 3 Cr

MAN 321 Operations Management

A focus on the application of quantitative tools and techniques to enhance decision making. This course is designed to introduce the student to a variety of those techniques, including cost-volume analysis, decision theory, forecasting, linear programming, work measurement and learning curves, simulation, queuing theory, materials requirement planning, etc. Prerequisite: MAT 102 or permission of instructor. 3 Cr

MAN 325 Finance

A course designed to acquaint students with financial operations, management and investment planning, and technique analysis. Subject areas include debt vs. equity financing; short, intermediate, and long term capital structuring; and qualitative and quantitative decision making. Prerequisite: ACC 202 and a knowledge of Algebra. 3 Cr

MAN 332 Human Resource Management

A study of basic principles and procedures relating to the personnel department: job analysis and evaluation, incentives, employment, placement and training, employee services, labor relations and government regulations. Prerequisite: MAN 301. 3 Cr

MAN 406 Entrepreneurship

A course designed to build upon the small business management skills acquired through the Small Business Management course. Emphasis is upon the application of these skills in the process of discovery, evaluation and entry into entrepreneurial opportunities. Prerequisite: MAN 221, senior standing, or permission of instructor. 3 Cr

MAR 101 Marketing & Entrepreneurship

An overview of marketing as an organizational and societal function stressing the application of marketing concepts and principles in entrepreneurship and realistic business situations. Students learn to analyze, plan, implement and control marketing strategies. Topics include product development and management, distribution, promotion, pricing, marketing research, consumer behavior, and external environments. 3 Cr

MAR 215 Marketing Channels

A course to provide the student with an appreciation for the complexity of product distribution from the producer to the ultimate consumer. Students are introduced to central markets, wholesaling, retailing, warehousing, transporting, and managing the channels of distribution. Prerequisite: MAR 101. 3 Cr

MAR 218 Advertising

A course designed to help students develop creative and analytical skills by evaluating ads created by others. In addition, students learn to plan, budget, execute and manage a successful advertising campaign. The use of publicity and public relations with a successful advertising campaign is explored. Prerequisite: MAR 101. 3 Cr

MAR 306 Marketing Management for Entrepreneurs

This course introduces the new entrepreneur to an understanding of the performance of activities that seek to accomplish an organization's objectives by anticipating customer or client needs and directing a flow of need-satisfying goods and services from producer to customer or client. The universal functions of marketing management of buying, selling, transporting, storing, standardization and grading, financing, risk taking, and market information are linked to the student's entrepreneurial undertaking. 3 Cr

MAR 315 Marketing for Nonprofit Organizations

Marketing as a subject of growing interest to managers of public and private nonprofit organizations. The concepts, tools and models that have worked effectively to manage products and services in the profit sector that are becoming increasingly relevant to the management of products and services in the nonprofit sector are covered. The course is concerned with a host of problems nonprofit organizations face that would be analyzed as straightforward marketing problems if found in the profit sector. Prerequisite: MAR 101. 3 Cr

MAR 323 Personal Selling

Insights into the theories, principles, methods and techniques of creative personal selling. Emphasis is placed on interpersonal skills, ethics, and viewing sales in their natural setting as an event where both buyer and seller benefit. Students learn those aspects of sales management that make it distinct from generic management. Prerequisite: MAR 101 or permission of instructor. 3 Cr

MAR 324 Consumer Behavior

A course to provide the student with an understanding of why people decide upon the products they purchase. The consumer decision process is stressed, as well as other aspects that influence consumers' behavior including

cultural and subcultural influences. Social class and group influence, the family, the role of learning, attitudes, information search, the purchasing procedure and post-purchase processes are examined. Prerequisite: MAR 101, PSY 110 or SOC 114, or permission of instructor. 3 Cr

MAR 406 Marketing Research

A study of the marketing research process that gives the student a tool to enhance his or her ability to make marketing management decisions. Topics include research project formulation, research designs, secondary data, sampling techniques, data collection, editing, coding, tabulation, data analysis, report writing, and communication. Prerequisite: 9 cr in marketing and MAT 113. 3 Cr

MATHEMATICS PREREQUISITES

Prerequisites are established for mathematics courses so students will have the quantitative skills necessary for success. It is important that these skills are current. Therefore, prior to taking mathematics courses that satisfy the University Core, all students must demonstrate competency in pre-college math in one of the following ways.

1. Complete a high school course beyond Algebra II, excluding geometry.
2. Score at least 480 on SAT math exam, or at least 20 on ACT math exam.
3. Place beyond Intermediate Algebra on UMM math placement exam.
4. Complete UMM MAT 102 course.
5. Score 50 or better on CLEP College Mathematics or College Algebra exam taken after 7/1/2001, or 500 or better on same exam taken before that date.
6. Transfer a math course having intermediate or college algebra as a prerequisite from a regionally accredited college.

MAT 009 Fundamentals of Mathematics

To prepare students for algebra and college-level mathematics, an understanding of arithmetic and pre-algebra topics and their mastery is emphasized. Special topics include the arithmetic operations of whole, fractional, and decimal numbers; applications of percentages; basic algebraic operations; and geometric concepts and measurement. Placement in MAT 009 is by the UMM Mathematics Placement test. 3 Cr

MAT 012 Beginning Algebra

An introduction to the language and skills used for quantitative problem solving in all fields of inquiry and for subsequent work in mathematics. Topics include problem-solving skills, algebraic equations, inequalities, functions, polynomials, and systems of equations and inequalities. Prerequisite: initial placement or by completing MAT 009 with a minimum grade of C-. 3 Cr (Non-Degree)

MAT 102 Intermediate Algebra

A course in the language and skills used for quantitative problem solving in all fields of inquiry and for subsequent work in mathematics. Topics include quadratic, rational, exponential and logarithmic functions with applications and solutions to equations and inequalities. Prerequisite: demonstrated proficiency in MAT 012. 3 Cr (Non-Degree)

MAT 105 Practical Mathematics for a Contemporary World

A course to provide familiarity with topics of mathematics that are noted for their contemporary practicality in non-technical areas, are important concepts in current public discourse, or have a rich aesthetic value. Topics include voting systems, population growth, fractals, chaos, and game theory. Prerequisite: MAT 102 or demonstrated proficiency in pre-college mathematics. 3 Cr

MAT 107 Structure of Arithmetic I

The first semester of a two-semester sequence intended as mathematics background for students in elementary education and humanities programs. The primary emphasis is the development of the arithmetic of natural numbers: integers, rational and real numbers. The course also surveys techniques in problem solving, set theory, number theory, elementary topics in geometry, probability and statistics. Prerequisite: MAT 102 or demonstrated proficiency in pre-college mathematics. 3 Cr

MAT 108 Structure of Arithmetic II

The second semester of a two-semester sequence intended as mathematics background for students in elementary education and humanities programs. The primary emphasis is the development of the arithmetic of natural numbers: integers, rational and real numbers. The course also surveys techniques in problem solving, set theory, number theory, elementary topics in geometry, probability and statistics. Prerequisite: MAT 102 or demonstrated proficiency in pre-college mathematics. 3 Cr

MAT 110 Finite Mathematics

The study of systems of linear functions, matrices, and linear programming with an emphasis on applications to business, economics, biology, and the social sciences. Additional topics are selected from probability, Markov chains, game theory, difference equations, decision theory, and graph theory. Prerequisite: MAT 102 or demonstrated proficiency in pre-college mathematics. 3 Cr

MAT 113 Introduction to Statistics

Designed for students who need a reading knowledge of introductory statistical concepts, this course focuses on basic concepts and methods of statistics: data analysis, data production, and statistical inference. Data analysis concerns the methods for exploring, organizing, and describing data. Data production looks at methods for producing data to answer specific questions. Statistical

inference moves beyond the data to draw conclusions about a wider universe, taking into account that conclusions are uncertain. To describe and understand statistical inference, a limited introduction to probability is presented. The class is taught in a computer classroom using statistical software extensively for classroom demonstration, homework assignments, and student tutorials. Prerequisite: MAT 012 or equivalent. 3 Cr

MAT 118 History of Mathematics

The goal of this course is to provide students interested in teaching middle- or high-school level mathematics, or others simply interested in the topic, the necessary understanding of the historical foundation of mathematics. The course will explore the origins of mathematics from anthropological and sociological viewpoints. It will then use this as a base for exploring the cultural development of basic numbering, arithmetic, basic statistics (mean, median, mode, etc.), simple probability, basic geometry, measurement (area, volume, etc.), patterns, including symmetry and basic networks, mathematical reasoning, and using mathematics to communicate. The development of these areas, all of which are contained in the Maine State Learning Results for middle and secondary grades, will be explored from various cultural perspectives including a selection from prehistoric, Native American, Egyptian, Mesopotamian, Ancient Greek, Roman, Hindu, Islamic, Chinese, Korean, Japanese, and European cultures. The course is designed to be a survey course that will allow for such a broad view of the development of mathematics. Prerequisite: MAT 102 or permission of instructor. 3 Cr

MAT 122 Precalculus

An introduction to elementary functions, designed to prepare the student for calculus. Topics include polynomial, rational, exponential, logarithmic and trigonometric functions. Graphing calculator techniques are principal tools. Prerequisite: MAT 102 or demonstrated proficiency in pre-college mathematics. 4 Cr

MAT 126 Calculus I

Basic concepts of differential and integral calculus: limits, continuity, differentiation and integration of elementary functions, graphing, maxima and minima, and the Fundamental Theorem. A computer algebra system is used extensively. Prerequisite: MAT 122 or equivalent. 4 Cr

MAT 127 Calculus II

Methods and applications of integration, some differential equations, exponential and logarithmic growth, and infinite series. A computer algebra system is used extensively. Prerequisite: MAT 126. 4 Cr

MAT 200 Topics in Mathematics

A post-calculus course in multi-variable calculus, linear algebra, dynamical systems, differential equations, discrete math, numerical analysis or modeling. Topics are rotated to accommodate student needs and interests. May be repeated for credit with permission of instructor. Prerequisite: MAT 126 or 127, depending on the topic. 1-4 Cr

MAT 215 Applied Statistics

Designed for students who intend to use statistics and statistical software later in their education and professional lives. This course offers an extensive and in-depth introduction to the concepts and methods of statistics in the three parts: data analysis, data production, and statistical inference. The course also includes a limited introduction to probability. Students learn about the role of variability in hypothesis testing using both parametric and non-parametric tests. The course is taught in the computer classroom with each student having individual access to statistical software. The software, used for all applications discussed in class, is an important part of the course for demonstration, student tutorials, and discussing homework. Prerequisite: MAT 102 or equivalent. 4 Cr

MAT 315 Experimental Design & Analysis for Biologists

This course will introduce students to the most common and widely used experimental designs to generate biological data for both continuous and categorical variables. The emphasis will be on how to: 1) design resource-appropriate sampling programs; 2) avoid mistakes that make analyzing data difficult; and, 3) properly analyze data. Statistical methods such as analysis of variance, linear and non-linear regression, analysis of covariance, analysis of frequencies, and an introduction to multivariate analysis will be presented. Prerequisite: MAT 215. 4 Cr

MSY 331 Desktop Publishing

The publishing process combining type, pictures and drawings on a computer screen. Students gain in-depth understanding of the capabilities and functions of the latest desktop publishing software packages used in business and industry. Specifically, the course is designed to enable students to acquire the skills necessary to use graphics packages and design document layout strategies for the purpose of producing professional-looking reports, newsletters, manuals, bulletins, brochures, business forms and other documents. Computers and software are available for classroom use. In addition, laboratory facilities are provided for all students. Prerequisite: Prior experience with computers, or interview with instructor. 3 Cr

MTR 101 Meteorology

An introduction to the study of weather and weather-related phenomena including solar radiation, temperature, moisture, winds, air pressure, air masses, weather patterns, weather analysis, weather forecasting, climate, weather instruments, and computers. Upon completion of this course, a student should have a qualitative understanding of how many of the basic principles of physics, chemistry and mathematics are applied in meteorology; an ability to relate personal weather observations to data received from weather instruments and analyzed on standard weather charts; and a new set of general data analysis skills. The course is delivered asynchronously and the Web is used extensively. 4 Cr

MUS 101 UMM Chorale

A choral group performing a cappella and accompanied songs and larger works of all periods and styles. Courses are identical and may be repeated for credit. 1 Cr

MUS 103 Applied Music: Private Lessons

Individual or group instruction in vocal or instrumental performance (drums, guitar, piano, violin, voice, winds, etc.). Each student, whether a beginner or a more experienced musician, is expected to progress at his or her own optimum rate. An in-house performance at semester's end (closed to the public) is the final for this course. Instruction on some instruments may be contingent upon faculty availability. May be repeated for credit. 1 Cr

MUS 107 Applied Music: Performing Groups

Instrumentalists and singers (Pop Band, Chamber Ensemble, Town/Pep Band, etc.) rehearse weekly, culminating in public performance(s) near the end of the semester. All groups may include both singers and players except Town/Pep Band, which is an instrumental ensemble dedicated to traditional band literature. Pop Band performs songs of any and all styles. Chamber Ensemble explores classical music, and has MUS 119 or permission of instructor as a prerequisite. This is the only group with a prerequisite. Other musical experiences for academic credit are possible, and have been offered. 1 Cr

MUS 109 Applied Music: Guitar

A course in which each student, regardless of experience, learns and/or develops guitar techniques: tuning, fingerpicking, strumming, music reading/writing, jamming, melodic playing and accompaniment. Primary lecture topics include chords, harmonic theory, style, ear training, posture, exercise, practice techniques, and guitar selection. Beginners and more experienced players are welcome. Each student must provide his or her own guitar. 3 Cr

MUS 115 Intro to Music: Listening

The basic course in musical awareness, informed listening, and the elements of music. It assumes no prior knowledge

of music and prepares students for lifelong enjoyment as a vital link in the musical experience. It also prepares the student for courses in music history. 3 Cr

MUS 119 Fundamentals of Music: Literacy

Music notation, basic performance and composition techniques (vocal and instrumental), beginning harmony and sight singing are covered. This course in practical music making is the first course in the music theory sequence and is a prerequisite to all other theory courses. 3 Cr

MUS 207 Applied Music: Performing Groups

Instrumentalists and singers (Pop Band, Chamber Ensemble, Town/Pep Band, etc.) rehearse weekly, culminating in public performance(s) near the end of the semester. All groups may include both singers and players except Town/Pep Band, which is an instrumental ensemble dedicated to traditional band literature. Pop Band performs songs of any and all styles. Chamber Ensemble explores classical music, and has MUS 119 or permission of instructor as a prerequisite. This is the only group with a prerequisite. Other musical experiences for academic credit are possible, and have been offered. 1 Cr

MUS 209 Applied Music: Guitar

A course in which each student, regardless of experience, learns and/or develops guitar techniques: tuning, fingerpicking, strumming, music reading/writing, jamming, melodic playing and accompaniment. Primary lecture topics include chords, harmonic theory, style, ear training, posture, exercise, practice techniques, and guitar selection. Beginners and more experienced players are welcome. Each student must provide his or her own guitar. 3 Cr

MUS 211 Topics in Music

An umbrella course designed for the investigation of various music styles, periods, practices, and ideas not covered in other course work. American Popular Music History, American Musical Theatre (Broadway), Jazz Survey, Women in Music, and the Beatles are topics offered recently. Prerequisites depend upon the specific course. 3 Cr

MUS 214 Music Theory I

Scales, intervals, chords, and their interrelationships. The study of four-part harmony is begun. Practice in sight singing, rhythmic, melodic and harmonic dictation is given; transcription and original composition are stressed. Prerequisite: MUS 119 or permission of instructor. 3 Cr

MUS 223 Songwriting

The basic tenets of songwriting learned through analysis and creative work. A personal portfolio of songs and demonstration recordings is compiled, then shared with, and critiqued by, the class. This course has been taught in both full-semester/classroom and intensive/outdoor

formats. Songwriting fulfills elective credit in both the Creative Writing and Music minors. Prerequisite: ENG 101 and MUS 119, or permission of instructor. May be repeated for credit. 3 Cr

MUS 301 UMM Chorale

A choral group performing a cappella and accompanied songs and larger works of all periods and styles. Courses are identical and may be repeated for credit. 1 Cr

MUS 307 Applied Music: Performing Groups

Instrumentalists and singers (Pop Band, Chamber Ensemble, Town/Pep Band, etc.) rehearse weekly, culminating in public performance(s) near the end of the semester. All groups may include both singers and players except Town/Pep Band, which is an instrumental ensemble dedicated to traditional band literature. Pop Band performs songs of any and all styles. Chamber Ensemble explores classical music, and has MUS 119 or permission of instructor as a prerequisite. This is the only group with a prerequisite. Other musical experiences for academic credit are possible, and have been offered. 1 Cr

MUS 312 Music History I

Historical study tracing the main lines of development in the art-music of Western Europe from the Middle Ages through the Baroque and Classical periods, from Hildegarde to Beethoven. Prerequisite: MUS 115 or permission of instructor. 3 Cr

MUS 313 Music History II

A continuation of European-American art-music history, from Beethoven to the present. The influences of popular and ethnic musics are discussed, and technological developments are considered, both as delivery media and intrinsic art forms. Prerequisite: MUS 115 or permission of instructor. 3 Cr

MUS 324 Music Theory II

A course to provide a broader theoretical outlook, examining harmony, counterpoint, improvisation, analysis, composition, arranging, transcription and performance practice. In addition to classwork, special projects may be undertaken in any of these areas. Prerequisite: MUS 119 and MUS 214, or equivalent. 3 Cr

MUS 407 Applied Music: Performing Groups

Instrumentalists and singers (Pop Band, Chamber Ensemble, Town/Pep Band, etc.) rehearse weekly, culminating in public performance(s) near the end of the semester. All groups may include both singers and players except Town/Pep Band, which is an instrumental ensemble dedicated to traditional band literature. Pop Band performs songs of any and all styles. Chamber Ensemble explores classical music, and has MUS 119 or permission of instructor as a prerequisite. This is the only group with a prerequisite. Other musical experiences for academic credit are possible, and have been offered. 1 Cr

PHYSICAL EDUCATION OPPORTUNITIES

The Physical Education program at UMM offers a variety of experiences for students of all ages and levels of physical activity. Facilities include the Frederic A. Reynolds Athletic & Education Center with its main gymnasium, a small multi-purpose room, and racquetball courts. Also available is the Center for Lifelong Learning with a competition-sized pool and large fitness room with free weights and aerobic equipment. Surrounding outdoor areas and nearby facilities for tennis and golf are available.

PHE 101 Physical Education Activity

A choice of activities is available each semester, depending on the season and scheduling requirements. The selection may include aerobic dance, aquasize, archery, badminton, basketball, bowling, fitness, folk dance, golf, karate, kickboxing, racquetball, snowshoeing, soccer, softball, swimming, team handball, tennis, volleyball, wallyball, weight training, or cross-country skiing. Students may elect a maximum of 3 activities in any one semester. Intercollegiate athletic participation is also available for credit as a physical education activity. Offered pass/fail. 1 Cr

PHE 103 Open Water I SCUBA

This Professional Association of Diving Instructors (PADI) course is a performance-based education course which leads to certification upon completion of all requirements. This course teaches the foundational knowledge and skills necessary to dive with a buddy, independent of supervision. The course involves classroom activities, pool exercises and/or supervised open water dives. Prerequisite: Medical clearance. 3 Cr

PHE 105 Personal Wellness

A physical education lecture and activity course that provides students with an opportunity to explore and experience various components of fitness and wellness that will enhance their lives. The course is designed to meet individual needs by assessing and prescribing personalized programs to improve the different components of fitness and wellness. Wellness topics discussed include nutrition, weight management, cardiovascular disease, cancer, stress management, addictive behaviors, and healthy lifestyle issues. 2 Cr

PHE 201 Physical Education Activity

A choice of activities is available each semester, depending on the season and scheduling requirements. The selection may include aerobic dance, aquasize, archery, badminton, basketball, bowling, fitness, folk dance, golf, karate, kickboxing, racquetball, snowshoeing, soccer, softball, swimming, team handball, tennis, volleyball, wallyball, weight training, or cross-country skiing. Students may elect a maximum of 3 activities in any one semester. Intercollegiate athletic participation is also available for

credit as a physical education activity. Offered pass/fail. 1 Cr

PHE 210 Advanced Open Water SCUBA

This course expands the knowledge and experience of students beyond the Basic Open Water SCUBA course and prepares students for advance SCUBA certifications in Rescue Diver and others. Students will participate in classroom instruction, pool instruction and open water dives. The course covers concepts, practical applications, problem solving, safety, and hands-on experiences. Students will study, understand and be able to demonstrate the skills associated with the following topical areas: naturalist, deep water dives, navigation, search and recovery, night diving, shipwreck concepts and practices, and recreational dive planner. Every student will demonstrate knowledge and practical skills in all areas to complete the course and to obtain PADI certification. Quizzes and tests are part of the evaluation process. Grades are determined based on all parts of assessment. Prerequisite: PHE 103 or equivalent certification. 3 Cr

PHI 101 Intro to Philosophy

A study of the perennial problems of philosophy as discussed by authors of all periods from the Pre-Socratic Greeks to contemporary writers. This multicultural survey includes diverse global and economic perspectives. Topics may include free will vs. determinism, the problem of evil, the mind-body split, the nature of time, the limits of methodology, including scientific and mystic. Prerequisite: ENG 101. 3 Cr

PHI 201 Ethics

An examination of the task of ethics to elucidate the concept of the good life; to investigate ideas of obligation, duty, and responsibility; and to decide what ought to be done. The student explores traditional themes of right conduct. Through readings and discussions, these themes are applied to relevant contemporary issues such as war and terrorism, the connections between business and environmental ethics, sexuality, suicide and euthanasia and drug use. Prerequisite: ENG 101. 3 Cr

PHI 212 Topics in Philosophy

Topics focusing on a different aspect of study, i.e., science and religion, perception of reality, Existentialism, eastern philosophy, and world religions. The course also may be geared to particular students such as an aesthetics course for art, music and literature students, or a philosophy of education course. Prerequisite: ENG 101. 3 Cr

PHY 111 Physics I

An introduction to the nature of energy and mechanics. Emphasis is placed on the study of vectors, velocity, acceleration, and force. Laboratory work includes computer simulation as well as traditional physics

activities. Lecture 3 hours, laboratory 2 hours. Prerequisite: MAT 122 or equivalent. 4 Cr

PHY 112 Physics II

A continuation of PHY 111 introducing the concepts of sound, electricity, optics, and modern physics. Lecture 3 hours, laboratory 2 hours. Prerequisite: PHY 111 or equivalent. 4 Cr

POS 212 Topics in Political Science

Courses designed to allow students to pursue study in specific area of Political Science. Courses vary in content in response to student interest and demand. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

POS 215 American National Government

An introductory study of the major principles, structures and practices of the United States government. The course emphasizes such topics as the Constitution and its development; the federal system; civil liberties and civil rights; public opinion, interest groups, political parties and elections; the Congress; the Supreme Court; the Presidency and the presidential establishment; domestic and foreign policy formation; government services and regulation; and the federal budget and federal taxation. Prerequisite: Sophomore standing or permission of instructor. 3 Cr

POS 216 State and Local Government

An introduction to government and politics in the U.S. below the national level. Major emphasis is placed on such topics as federal-state-local relations; government and politics on the state level, including constitutions, legislatures, governors and judges; law enforcement and court systems; city, county and town governments; the urban crisis; big city politics; metropolitan government; local power structures; the politics of education and welfare; and state and local government regulation and taxation. Prerequisite: Sophomore standing or permission of instructor. 3 Cr

POS 305 Environmental Policy

A systematic analysis of U.S. environmental policy focusing on air and water quality, land use, hazardous wastes and energy. Policy is analyzed as the resultant of political structure and process, societal values and perceived benefits and costs. Specific disciplinary perspectives and value conflicts are emphasized. Prerequisite: Any two of ECO 202, ENV 112, POS 215. 3 Cr

POS 311 Political Correctness in American Society

This course defines, examines, and analyzes political correctness as a long-standing feature of American society, dating back to the Salem witch trials and including the Alien and Sedition Acts, Prohibition, McCarthyism, and more. The roots and consequences of conflicts between

liberty and community are carefully considered. The effects on different sectors of American society and on public policy are identified and analyzed. The course is taught on the Web, and ideological diversity is encouraged and valued. Prerequisite: POS 215 or instructor's permission. 3 Cr

PSY 102 Personal Growth

This course is designed to provide students with the opportunity to examine their life-space; to envision alternative possibilities in their personal and professional growth; and to foster the development of creative changes toward their future life-career. This course has two essential aspects. First, the theoretical and academic aspect in which the focus of the class and text is on major psychological theories and their applications for everyday life. Second, the experiential aspect in which the students are encouraged to participate in growthful exercises individually and in group situations. The course involves the various areas of life including relationships to family members, to friends and associates, and to professional colleagues. 3 Cr

PSY 110 Intro to Psychology

An introduction to the scientific study of behavior including a survey of all the major areas of inquiry pursued by psychologists—history, methods, physiological aspects, perception, learning, memory, cognition, emotion, motivation, consciousness, personality, abnormal behavior and therapies, and social processes. Unless otherwise noted, this course is a prerequisite to all other psychology courses. Prerequisite: Satisfactory completion of ENG 101 or permission of instructor. 3 Cr

PSY 211 Introduction to Behavioral & Community Health Systems

This course will review systems of care provided by the state, as well as those provided by for-profit and not-for-profit entities, to serve the needs of behavioral health consumers. Essential components of this course include addressing contemporary public and social policy -- and social services provision within those policies -- including fundamentals of behavioral health care, child protection, and welfare systems. In addition, the course examines the history and impact of laws and regulatory standards that dictate these policies -- and ultimately service provision in behavioral care for children, adults and the elderly. Both current practices and historical precedent are woven into a model represented in both its completeness and contradictions. Prerequisite: PSY 110 or permission of instructor. 3 Cr

PSY 212 Lifespan I

A course concerned with the description and psychological explanation of changes in an individual's behavior and mental processes as a result of biological and experiential factors. Overviews of physical, cognitive and psychosocial development are provided. This course

provides students with a social science perspective on human development and methods of inquiry. Life stages covered are prenatal, toddlerhood, preschool and the school years up to adolescence. Changes in physical, cognitive and psychosocial development are followed and attention is given to the impact of culture, race, ethnicity, gender, and socioeconomic status as major variables that influence development. Research methods and the major developmental theories will be examined in order to assess the validity of the research support for and the adequacy of the theories in helping to understand the developmental process. Prerequisite: PSY 110 or permission of instructor. 3 Cr

PSY 213 Psychosocial Rehabilitation Practices

This course will address the notion of psychosocial rehabilitation in a holistic fashion, noting the conceptual practice of psychosocial rehabilitation as a core organizing attitude underlying all behavioral health care. Core philosophies are examined, including historical and current theories and practices, noting the use of contemporary effective practices which are key to current psychosocial rehabilitation. Prerequisite: PSY 110 or permission of instructor. 3 Cr

PSY 214 Psychology of Prejudice

The psychology of stereotypes, prejudice, discrimination and stigma, and methods to undermine these concepts, will be presented so that understanding and applications can be extended to various minority populations. Minority populations, which may be related more to influence than to size, may include African Americans, Native Americans, Roma, Middle Eastern Americans, Asian Americans, those individuals that may identify as LGBT, the impoverished, the elderly, the obese, those with physical or mental disabilities, and women. Ways to work to ameliorate prejudice will be explored. Prerequisite: ANT 101, PSY 110 or SOC 114, or permission of instructor. 3 Cr

PSY 219 Special Topics in Applied Psychology

Courses designed to allow students to pursue study in an area within Psychology. Courses vary in content in response to student interest and demand. Some possible courses could include Conflict Analysis & Resolution, Ecological Psychology, Readings in Applied Psychology, Industrial & Organizational Psychology, Multicultural Psychology, Community Psychology, Stress Management, Human Factors Psychology, History of Psychology, Perception & Cognition, Psychology of Motivation or Psychology of the Family. Under this topics heading, other Mental Health & Rehabilitation Technician Certification courses could be offered, including Sexual Abuse, Trauma & Recovery; Case Management, Mental Health & Aging, Substance Abuse with a Dual Diagnosis Component; Group Process; or Vocational Aspects of Disability. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

PSY 221 Health Psychology

This course surveys theory and research on the interrelationships of mental processes and behavior with physical health and well-being. Major areas covered include the interface between mind and body; the role of belief systems in engaging in health protective behavior; the influence of stress on the immune system; and the biological, psychological, social and behavioral factors that moderate maintaining health or developing illness, such as individual differences in personality, life-style choice, coping styles, and the availability of social support. Methodological issues in health psychological research are also explored. Prerequisite: ENG 101 and PSY 110, or permission of instructor. 3 Cr

PSY 223 Sport Psychology

Sport Psychology is the study of the mental and behavioral factors that influence or are influenced by participation in sport, exercise, and physical activity. Sport psychologists are interested in how athletics enhance and support the personal growth and well-being of individuals. This course outlines the research and training methods of sport psychologists and surveys theory and research on sport psychology, including such major areas as the history of sport psychology, the application of principles of learning and behavior, motivation and social psychology, the assessment of individual differences in personality of athletes, and principles of coaching and the psychology of exercise and fitness. Prerequisite: ENG 101 and PSY 110, or permission of instructor. 3 Cr

PSY 230 Abnormal Psychology

A course designed to provide an overview of the area of abnormal psychology and to introduce the student to different theoretical models, classifications, origins, and treatments of abnormal behavior. Prerequisite: PSY 110 and sophomore standing, or permission of instructor. 3 Cr

PSY 303 Understanding Testing

This course will describe the nature of tests as employed in psychological, educational, career development, and health settings. Topics covered will include: why we test; what makes for a "good" test; what is meant by reliability and validity of a test, and how these are created and determined; what makes a test biased; the differences between the concepts of and testing for intelligence, achievement, aptitudes, personality, interests, interests, and relationship issues; the basic statistical concepts used in test construction and scoring; and specific well-known tests. Prerequisite: PSY 110 or permission of instructor. 3 Cr

PSY 311 Social Psychology

A study of the social and cultural factors affecting human behavior, including effects on observable behavior, emotions, attitudes and other cognitions. Topics of

conformity, persuasion, aggression, prejudice, prosocial behavior, relationships, and group influence are considered. Prerequisite: PSY 110, SOC 114, and junior standing; or permission of instructor. 3 Cr

PSY 312 Theories of Personality

A study of the concepts included in psychology's most widely accepted theories of personality such as those proposed by Freud, Horney, Allport, Rogers, and Skinner. Attention is given to related research, personality assessment, and therapies. Prerequisite: PSY 110 plus 3 additional cr of psychology or sociology; third-year status recommended. 3 Cr

PSY 313 Counseling Diverse Populations

This counseling course is designed to help the student acquire the skills necessary to become a culturally competent mental health or social service practitioner, that is, someone who is sensitive to cultural differences and to their impact on human interactions. The course is based on the fundamental premise that cultural competence is an ongoing and multi-layered process working at personal, interpersonal, and organization-wide levels. Topics to be addressed include skills to increase cultural awareness and understanding, skills to foster effective interpersonal communication and organizational change strategies. Studies will learn to identify and understand culture as it operates on different social levels (class, ethnicity, gender, sexual orientation). Students will also learn to identify the barriers to effective communication and positive relationships including how culture may be a barrier. Prerequisite: PSY 110, PSY 211, or PSY 213 or permission of instructor. 3 Cr

PSY 316 Industrial/Organizational Psychology

Industrial/Organizational (I/O) Psychology concerns the application of psychological theories, research methods, and intervention strategies to workplace issues. I/O psychologists are interested in helping organizations to be highly productive while ensuring that their workers are able to lead physically and psychologically healthy work lives. Topics focused on include Personnel Psychology, Employee Motivation and Leadership, Employee Training and Development, Organization Development and Guided change, Organizational Behavior, and Work and family. Prerequisite: PSY 110. 3 Cr

PSY 319 Special Topics in Applied Psychology

Courses designed to allow students to pursue study in an area within Psychology. Courses vary in content in response to student interest and demand. Some possible courses could include Conflict Analysis & Resolution, Ecological Psychology, Readings in Applied Psychology, Industrial & Organizational Psychology, Multicultural Psychology, Community Psychology, Stress Management, Human Factors Psychology, History of Psychology, Perception & Cognition, Psychology of Motivation or

Psychology of the Family. Under this topics heading, other Mental Health & Rehabilitation Technician Certification courses could be offered, including Sexual Abuse, Trauma & Recovery; Case Management, Mental Health & Aging, Substance Abuse with a Dual Diagnosis Component; Group Process; or Vocational Aspects of Disability. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

PSY 320 Learning and Memory

A study of experimental analyses of animal and human learning from various perspectives within psychology. Topics include conditioning; different types of learning; encoding, storage, and retrieval of memory; and neural mechanisms of learning and memory. Prerequisite: PSY 110, MAT 113, or permission of instructor. 3 Cr

PSY 321 Psychological Models Explaining Human Behavior

An examination of contemporary theoretical explanations of behavior: how do various models shape the formulation of questions about behavior and the resultant answers. Theoretical explanations may include, but not be limited to, behavioral, humanistic, neuroscientific, cognitive, and psychoanalytical models. This course is designed to provide you with an in-depth understanding of the philosophical underpinnings of psychological theory. The various systems in psychology will be explored. This course also provides a brief historical overview of the field of psychology. Critical dualisms as they apply to systems are expanded upon (i.e. mind-body, nature-nurture, cognition-behavior, brain-behavior). Prerequisite: PSY 110 Introduction to Psychology and two of the following three courses: SOC 114 Introduction to Sociology, ANT 101 Introduction to Anthropology, MAT 113 Statistics. 3 Cr

PSY 322 Physiological Psychology

Introduction to the anatomical and physiological bases of behavior. Topics include learning, sensation, motivation, emotion, and psychopathology as revealed by a physiological perspective. Prerequisite: BIO 111, MAT 113, PSY 110, and junior standing; or permission of instructor. 3 Cr

PSY 324 Lifespan II

A course designed to provide students with an understanding of behavior and physical, cognitive and psychosocial development from adolescence through death. In addition, the course investigates special issues and concerns for adolescent development including those related to adolescent health; deviance and psychological disorders; functioning in the family, school and society; and other related to the transition to adulthood. The life stages of young adulthood, middle adulthood, late adulthood and death and bereavement will be examined in order to bring continuity and closure to the topic of human development. The impact of culture, race, ethnicity, gender and socioeconomic status will be

examined at each stage of development. Prerequisite: PSY 110 or permission of instructor. 3 Cr

PSY 325 Motivation

This course is designed to survey theory and empirical research on motivation, defined as the factors that initiate, energize, direct and sustain behavior. This course covers the history and systems in the study of motivation, physiological and psychological needs, cognition, individual differences in personality and motivation, and emotion. Prerequisites: PSY 110 and ENG 101. 3 Cr

PSY 330 Perception and Cognition

A human information processing approach to human perception and cognition. Relationships between psychological and physical realities are formalized as students consider the physiological and psychological processes in the behaviors discussed. Topics include attention, vision, audition, knowledge representation, memory, language, problem solving, and decision making. Prerequisite: MAT 113, PSY 110, PSY 320, or permission of instructor. 3 Cr

PSY 331 Behavioral Pharmacology

A course designed to provide students with an understanding of how drugs alter behavior and how alterations in behavior predispose an individual to substance abuse. For each of the drugs and behaviors discussed in this course, the implications of using drugs to induce changes in behavior are applied to the individual and to society. As such, another objective in this course is to make students more informed consumers of drugs and more capable of educating others in society. Topics include principles of drug action, tolerance, dependency, major classes of psychoactive drugs, and societal implications. Prerequisite: PSY 110, PSY 322, or permission of instructor. 3 Cr

PSY 332 Crisis Identification & Resolution

This course is a study of behaviors that typically bring prompt intervention and the interventions appropriate at such times. Students will learn to identify behaviors that indicate psychological crises. The course will cover events such as being a danger to self or other; being so mentally ill that the person is not able to function; substance abuse related problems; trauma-related problems and behavior associated with the abuse of children, spouses and the elderly. Areas to be covered include personal skills, modes of intervention, appropriate referral tactics, and issues of social and legal relevance. Prerequisite: PHI 201, PSY 110 and PSY 230 or permission of instructor. 3 Cr

PSY 419 Special Topics in Applied Psychology

Courses designed to allow students to pursue study in an area within Psychology. Courses vary in content in response to student interest and demand. Some possible courses could include Conflict Analysis & Resolution, Ecological Psychology, Readings in Applied Psychology,

Industrial & Organizational Psychology, Multicultural Psychology, Community Psychology, Stress Management, Human Factors Psychology, History of Psychology, Perception & Cognition, Psychology of Motivation or Psychology of the Family. Under this topics heading, other Mental Health & Rehabilitation Technician Certification courses could be offered, including Sexual Abuse, Trauma & Recovery; Case Management, Mental Health & Aging, Substance Abuse with a Dual Diagnosis Component; Group Process; or Vocational Aspects of Disability. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

REM 101 Outdoor Recreation Activities

A course in the field of outdoor recreation providing a choice of activity and credit. Depending on the season and the scheduling requirements, this selection may include canoeing, backpacking, sailing, riflery, and ocean kayaking. Students should be willing to participate in the activities as this course contains extensive field experiences. .5-1 Cr

REM 111 Freshman Recreation Seminar

Provides an introduction to college and specifically to UMM exploring campus policies and procedures, campus services and opportunities, study skills and time management, student responsibilities and image, etc. The intent of the course is to help students in their adjustment to the new experience of college life. Offered fall semester only. 1 Cr

REM 112 Recreation and Leisure Exploration

An overview of career opportunities in the leisure service industry including discussions of professionalism, exploration of career objectives, examination of professional journals, and personal interaction with working professionals from several different segments of the leisure service industry. Speakers and the career development office help students explore individual interests, values, and job characteristics so they can choose an appropriate career direction more readily. Offered fall semester only. 2 Cr

REM 115 History and Philosophy of Recreation

A philosophical foundation in the theories of leisure, recreation and play that also traces the historical framework of the leisure service industry. The sociological, psychological and physiological significance of play, recreation and leisure as it relates to the individual lifespan and society as a whole is explored. The course will explore the changing role of leisure and the leisure services profession. Offered spring semester only. 3 Cr

REM 121 Outdoor Recreation I

A survey of outdoor recreation activities that addresses personal motivation for participation as well as direct and indirect psychological, social and physical benefits

derived from participation. Economic, technological, political and environmental impacts of outdoor recreation are examined. Historical perspectives, professional responsibilities, human and natural resource elements, and future trends are explored. The course includes active participation in outdoor activities such as lake canoeing, ocean kayaking, backpacking, camping, and map and compass skills. Emphasis is placed on outdoor leadership philosophies and techniques. Offered fall semester only. 3 Cr

REM 122 Outdoor Recreation II

Develops philosophical, organizational, participation and leadership skills in an effort to promote safe, enjoyable participation in outdoor activities while considering the impact on and the protection of the natural resource. The motivation for participation and the role of the outdoor leader are explored in detail. This course includes active participation in outdoor activities such as skiing, winter camping, snowshoeing and river canoeing. Risk management planning is an integral part of the course. Offered spring semester only. Prerequisite: REM 121 or permission of instructor. 3 Cr

REM 123 River Canoeing and Camping

Designed to prepare a student to lead an extended canoeing trip on a wilderness river. The learning experiences in this course are designed to help students develop an awareness and appreciation of the Maine woods, and to enjoy it safely, while leaving it environmentally sound. This course provides excellent preparation for taking the Maine Guide exam. Prerequisite: REM 121 and REM 122, or permission of instructor. 3 Cr

REM 124 Recreation Safety and First Aid

Develops an awareness of safety in a variety of recreational settings. The course includes theoretical understandings and practical experiences directed toward prevention of hazardous conditions and emergency situations. The student may obtain Red Cross Emergency Response Certification. 3 Cr

REM 125 Sailing and Basic Seamanship

Designed to introduce students to sailing and basic boating safety. The course covers basic seamanship, sailing theory and techniques, boat handling, navigation, marine safety, and proper procedures for administering sailing programs. Students also have an opportunity to develop an awareness and appreciation of the Maine waterways. Prerequisite: REM 121 and REM 122, or permission of instructor. 3 Cr

REM 201 Leisure Activities

Explores leisure theory, concepts of play and impacts of organizational structure on the outcome of any activity. Using a variety of non-sport activities such as games, crafts, music and drama, relationships between resources

and experiences are explored and appropriate facilitation techniques for all individuals and groups within society are analyzed. Developing an understanding of the nature and diversity of leisure activities is the goal of this course. 3 Cr

REM 202 Recreational Sports Methods

Intended to give the student a general understanding of sports in a recreational setting. Topics include the planning process, organizing activities, presentation methods and techniques and evaluation procedures. Students develop an appreciation of individual differences as they relate to sports programming. The impacts of and relationships between many current societal issues and sport are explored. Prerequisite: REM 201 plus 2 semesters of physical education activities. 3 Cr

REM 206 Sea Kayaking & Camping

Designed to prepare students as leaders of an extended wilderness sea kayaking trip. Students not only develop kayak skills, but more importantly develop techniques for programming safe, educational and fun kayak trips for beginners through advanced paddlers. A thorough understanding of all skills necessary to lead a successful trip will be developed. There is no prerequisite although REM 121 and REM 122 would be beneficial. 3 Cr

REM 207 Lifeguard Training and Aquatics Management

Students will acquire general information concerning pool sanitation and aquatics management, and will complete the course with American Red Cross lifeguard certification. Prerequisite: Swim 500 yds. including 200-yd. front crawl, 100-yd. breast stroke, 200-yd. front crawl or breast stroke. Swim 20 yd., surface dive to 9 feet, retrieve a 10-lb. brick and swim back holding onto brick with both hands. 3 Cr

REM 209 Water Safety Instructor

Course will enhance student's swimming and water safety skills and will prepare student for Red Cross Water Safety Instructor (WSI) certification. This training and certification are valuable credentials for any water related employment including water theme parks, waterfront director, swim instructor, pools and beaches, as well as guiding (canoes, kayaks, white water rafting). Entrance into course requires passing 50 yard swim test as well as a basic knowledge of swimming strokes. 3 Cr

REM 211 Recreational Hunting & Fishing

A course designed to familiarize the student with all the various forms of recreational hunting and fishing and to examine the impact of these activities on Maine people economically, recreationally and environmentally. This course also focuses on wildlife and the role that hunting and fishing play in wildlife management programs. Proper selection and use of equipment and current safety programs are addressed. 3 Cr

REM 212 Wilderness First Responder

This course will provide outdoor leaders and enthusiasts with the knowledge and skills necessary to deal with medical and traumatic emergencies in remote settings. Applicable to expedition work, camping, backpacking, guiding, rangers and recreational travelers. Successful completion of this 72-hour course carries a three-year certification through the Wilderness Medical Associates and exceeds the Maine Guide's requirements for medical training. Prerequisite: Students must have CPR certification or be concurrently enrolled in a course that will be completed by the time the WFR course is finished. 4 Cr

REM 213 Principles of Coaching

A course to provide students with the basic competencies to teach and coach sports (usually soccer and basketball) in recreational as well as school situations. Activities include development of a philosophy, certification of coaches, and a study of the athletic educator. An in-depth look at the game including fitness, techniques, tactics and systems is taken. Each sport is approached from building the complete program. Prerequisite: sophomore standing. 3 Cr

REM 214 Recreational Underwater Archaeology

This course is designed to teach divers proper procedures in the study of underwater archaeology. The course takes place in the classroom and the pool in preparation for actual ocean exploration. Areas covered include archival research, reconnaissance, planning, fundamentals of vessel construction from sail to steam, mapping, wreck survey and mapping, recording data, photo-mosaics, excavation and conservation of artifacts, analysis and interpretation of site and artifacts, publication of findings, and underwater photography. Prerequisite: Basic Open Water certification or higher from an approved association; medical clearance. 3-6 Cr

REM 217 Kinesiology

This course examines human joint movements and their respective neuromuscular activities. The course emphasis is on biomechanics and the effects of internal and external forces on functions of the human locomotor system. The course requires good qualitative and quantitative skills in order to effectively examine the performance of movement and to be able to apply these concepts to professional responsibilities in areas such as physical therapy, athletic training, physical education, coaching, health club management or personal training. This course meets the kinesiology requirement for the State of Maine endorsement: Teacher of Physical Education. On-line computer use required. Prerequisite: BIO 110 or BIO 210 or permission of instructor. 4 Cr

REM 218 Recreational Underwater Archaeology Field Study

Involving actual diving on a shipwreck in the ocean off the coast of Maine, this course teaches and provides practical applications of proper procedures in the study of underwater archaeology. The course involves the historical, cultural and archaeological study of a coastal schooner ship wrecked on the Maine coast. Skills and techniques studied include a sketch map, wreck survey, photo-mosaic, excavation and conservation of artifacts. A Web site is created from the collected data. Prerequisite: REM 214 and certification, or permission of instructor; medical screening; good physical condition. 3 Cr

REM 219 Introduction to Tourism & Hospitality

An overview of the tourism and hospitality industry including a wide variety of topics from food service to lodging to casinos, golf resorts and cruise lines. This is the introductory course in the sequence of courses emphasizing tourism management. Prerequisite: ENG 101 and MAR 101, or permission of instructor. 3 Cr

REM 221 Fundamentals of Search and Rescue

Designed to prepare people to participate effectively in official search and/or rescue activities administered by local, state, or federal agencies either as a volunteer working on a search and rescue team or as an employee of a governmental agency with search and rescue responsibilities. A student who successfully completes this course may receive national certification. Prerequisite: REM 121, REM 122, and REM 124; or permission of instructor. 3 Cr

REM 222 Rescue Diver

This PADI Rescue Diver course is designed to develop the necessary knowledge and skills for individuals to effectively perform diver rescues and assists, manage diving accident situations, render proper first aid, and qualify for the PADI Divemaster training. The course involves classroom activities, pool simulations, and open water dives. Before enrolling in this course students must have PADI Advanced Open Water Diver certification or equivalent rating. 3 Cr

REM 223 Ecotourism

This course provides an introduction to the concept and practice of ecotourism, a term used to describe nature-based tourism that promotes environmental conservation, respects local culture, and improves the economic well-being of host communities. Students examine the environmental, economic, and socio-cultural impacts of tourism, and critically evaluate what qualifies as ecotourism. The course offers an overview of the ecotourism industry, including ecotourism markets, destinations and activities, businesses and supporting organizations. Students study the effects of protected area management, business practices, public policies, and other

factors on the ecotourism sector. Prerequisite: ENG 101 or permission of instructor. 3 Cr

REM 224 Athletic & Recreational Injury Management

The acquisition of basic skills and knowledge of the prevention, recognition and care of injuries normally occurring in athletic and recreational sports. The competencies acquired provide students with a sound foundation for the primary care of athletes and recreational participants. Prerequisite: REM 124 or permission of instructor. 3 Cr

REM 225 Leadership and Group Dynamics

The study of leadership theory and group dynamics is the primary focus of this course. Human nature and the motivation of the individual are examined in order to better understand individuals as members of groups. Face-to-face leadership techniques are put into practice as students lead activities as part of a class-sponsored special event and as they simulate management-level interaction and problem solving. Prerequisite: 24 cr and ENG 101. 3 Cr

REM 226 Recreation Program Planning

This course will provide students with the basic knowledge or programming principles and theories, assessing participant needs, the planning process, developing goals and objectives, program implementation and evaluation strategies. Students will concentrate on the role that programming plays in enabling leisure and in facilitating the recreational experience. This course emphasizes the practical application of the knowledge and skills gained through the course. Prerequisite: REM 202, REM 225, or permission of instructor. 3 Cr

REM 245 Personal Fitness Training

A study of the scientific foundations of exercise, techniques of exercise, client consultation and assessment, program planning, and safety/emergency procedures. Course prepares students to take a certification exam for personal trainers. Prerequisite: REM 124 or permission of instructor. 3 Cr

REM 301 Park and Recreation Facilities Operations

Current practices in the operation and maintenance of parks and recreational facilities including both indoor and outdoor facilities. Students receive firsthand experience of site protection techniques, visitor management, and other problems involved in managing recreational facilities. Prerequisite: REM 202. 3 Cr

REM 302 Park and Recreation Facilities Design

A practical experience in the planning and design of parks and recreational facilities. Planning theory and all types of plans are reviewed. Spatial concepts and site design theory are combined in a laboratory setting where

students draft plans and prepare scaled models of actual facilities. Prerequisite: REM 301. 3 Cr

REM 305 Computer Applications in Parks and Recreation

A review of concepts combined with the practical application of software helps students gain an understanding of the Internet, spreadsheets and methods of electronic presentations. Use of the computer to enhance management tasks and program delivery is an important aspect of this course. Demonstration software packages may be available. Prerequisite: Ability to work independently. 3 Cr

REM 311 Recreation Services for Special Populations

A course to provide the student with a general understanding of leisure services for 'special' populations. Topics include current applicable legislation, disabling conditions, community recreation resources for special groups, architectural barriers, program planning and implementation. Prerequisite: REM 226 or permission of instructor. 3 Cr

REM 313 Advanced Athletic Training

An in-depth study of organizational and administrative aspects of athletic training program management. The course includes evaluation, treatment and rehabilitation of athletic injuries, advanced taping and wrapping, and a study of therapeutic modalities. Prerequisite: REM 124, BIO 110, or permission of instructor. 3 Cr

REM 319 Topics in Tourism & Hospitality Management

This course will provide an in-depth exploration of a variety of topics (one for each offering) within the management of the tourism and hospitality industry. Various approaches to the course will include interviewing successful entrepreneurs, examining internet promotions, site visits, developing plans of operation and others. Examples of topics include travel motivation, hotel management, restaurant operations, partnering and product development and others. The course is likely to include attendance at the Maine Governor's Conference on Tourism. This course may be repeated as topics vary. Prerequisite: REM 219 or permission of instructor. 3 Cr

REM 321 Recreation Administration and Supervision

An overview of administration including all functions of management. Classroom exercises and field work contacts concentrate on the administrative processes of policy development, decision making, personnel management, budgeting and financing, programming, public relations and office management. Included are evaluation procedures and research related to administration. Prerequisite: REM 226 and ACC 201. 3 Cr

REM 322 Public Service Recreation

An in-depth study of public recreation, including municipal, state, agency (YMCA/YWCA, Boys Club, etc.), and military recreational services. Course includes exploration of career opportunities, examination of existing public agencies and practical development of a sample public service agency. Case studies and realistic application of theories are major aspects of the course. Prerequisite: REM 321. 3 Cr

REM 323 Principles of Strength and Conditioning

An advanced course designed to explore principles and techniques of conditioning and strength training. Testing and evaluation, exercise techniques, and program design are covered. Prepares students to be eligible for the Certified Strength and Conditioning Specialist exam. Prerequisite: REM 124, BIO 110, or permission of instructor. 3 Cr

REM 324 Commercial Recreation (Tourism and Resort Management)

A survey of commercial recreation ventures (i.e., ski resorts, marinas, outfitting services, golf courses, etc.) and the various delivery systems used in the field. The course examines some of the more successful marketing programs and how they relate to state tourism programs. Prerequisite: ACC 201, MAR 101, REM 301, REM 321. 3 Cr

REM 326 Athletic Administration and Sports Management

An exploration of a complete program of sports management including scheduling, staffing, facility and event management. Dealing with national sports organizations, officiating organizations and league regulations all are covered. Case studies, problem-solving and delivery systems are explored in depth. Prerequisite: REM 202 and REM 321. 3 Cr

REM 353 River Trip Guiding

Course provides an opportunity for upper class students to practice and perfect their outdoor leadership techniques by guiding other students on an extended river canoeing trip. Teaching and leadership methodologies, activity planning and organization, risk management implementation and other topics are put into practice through this experience. Prerequisites REM 121, REM 122, REM 123 and REM 124 (or WFR) plus REM 226. Students are also encouraged to have other certifications and licenses. Students registering for this course MUST receive written approval from current instructor. 3 Cr

REM 411 Recreation and Wilderness Resources

A study of managing natural resources for the purpose of outdoor recreation. Natural areas that range from manicured parks to pristine wilderness areas are examined in light of the different management philosophies, policies, and techniques needed to maintain

them. Prerequisite: Junior standing or permission of instructor. 3 Cr

REM 412 Park Interpretation

A specialized course in preparing interpretive programs for recreational/park facilities and historic places. Selective media are discussed and used in the development of interpretive services. Examples of existing efforts in interpretation are explored. Prerequisite: Junior standing or permission of instructor. 3 Cr

REM 414 Grant and Proposal Writing

An introduction to the art and science of preparing grant proposals for nonprofit organizations. Emphasis is placed on writing and research skills. By examining the nature and interests of granting agencies and applicant organizations, students learn the importance of relationship-building and how to match funding needs with appropriate grant opportunities. The preparation of mock grant proposals takes students through the entire grant application cycle of need definition, grant research, program and budget planning, proposal writing, submission/review/funding, and post-award administration. Prerequisite: Knowledge of nonprofit/public organizations, writing ability, and Internet skills. 3 Cr

REM 417 Outdoor Recreation Leadership Practicum

A supervised situation in which students are given the opportunity to gain personal experience and knowledge in teaching and leading outdoor recreation activities. Students plan, organize and lead outdoor recreation activity courses, outings for the Outing Club, and other outdoor experiences. Enrollment in this course is by permission of instructor. 3 Cr

REM 442 Recreation Seminar

A seminar to integrate previous course and field experiences. Emphasis is placed on problem-solving procedures using case studies. Studies of current issues, status, trends, and future directions in leisure and recreation are included. Prerequisite: REM 321. 3 Cr

REM 443 Recreation Leadership Practicum

Allows qualified students to gain personal experience teaching and leading recreation/fitness activities at the college level under supervised conditions. Students enrolled in this course will actually teach a .5-1.0 college credit course under the direct supervision of a UMM faculty member. Students must have current certifications and/or licenses to teach/lead the activity and must be approved by a supervising UMM faculty member before registering for the course. 1-3 Cr

SED 310 Dimensions of Exceptionality

The purpose of this course is to provide the general educator and other interested students with an understanding of the characteristics and needs of individuals with exceptionalities. Students will learn about a range of topics including: the history of the special education movement, the provisions of IDEA and PL94-142, inclusion, transition, classroom modifications, and instruction. Students will also survey the characteristics of various disabilities, and how they affect individuals and their families. Factors that put students at risk, cultural and linguistic diversity, and giftedness are also explored. A field experience over an extended period of time is included. Prerequisite: EDU 220, EDU 313, or permission of instructor. 3 Cr

SED 320 Special Education Law

Students will study the American legal system and procedural due process in order to develop a framework for addressing legal issues relating to students with disabilities. The six principles of the Individuals with Disabilities Education Act will be covered as well as providing for a free appropriate public education, identifying and assessing students, educating in the least restrictive environment, providing related services, addressing discipline issues, and finding solutions to challenging situations facing students with disabilities. The role of the federal, state and local government in special education issues will also be covered with special emphasis on case and regulatory law, including Maine regulations. Prerequisite: SED 310 or permission of instructor. 3 Cr

SED 325 Assessment in Special Education

This course will examine the principles and procedures of non-discriminatory evaluation under IDEA as it relates to school-age students with mild to moderate disabilities. Emphasis will be placed on basic terminology, legal and ethical principles, technical adequacy, procedures, assessment instruments, administration, and effective communication. Prerequisite: SED 310 or permission of instructor. 3 Cr

SED 330 Math in Special Education

This course is designed to help prospective special education teachers understand the Maine Learning Results, national mathematics standards, instructional strategies and assessment techniques, and to develop organizational structures related to teaching mathematics to diverse learners in elementary schools. Topics include problem solving, finding numerical patterns, fractions and percents, measurement, characteristics of geometric shapes, developing positive attitudes towards mathematics, and the use of manipulative and computer software. Methods of adapting lessons for diverse learning needs and increasing the mathematics skills of inclusion children are the central issues to be addressed. Students

will develop a sample Personalized Alternate Assessment Portfolio (PAAP) and will have a practicum at a local school. 3 Cr

SED 340 Communication & Collaboration in Special Education

This course provides the special educator with techniques and skills for effective communication, consultation and collaboration with families, general educators, and other professionals. The main emphasis of the course is on understanding collaborative consultation as a process that enables people with diverse expertise to work together to generate solutions for educating students with special needs. The course will increase awareness of the framework and rationale for collaboration, the facilitating factors involved, and strategies for implementation. This course satisfies the State of Maine Teacher of Students with Disabilities (282) endorsement. Prerequisite: SED 310 or permission of instructor. 3 Cr

SED 345 Behavior Strategies and Social Skill Development for Students with Disabilities

This course provides instruction in a variety of behavior strategies, including the development of social skills. Emphasis is placed on students with disabilities in a broad range of educational environments. Proactive systems of behavior intervention, management and modification are examined to target specific behaviors while providing an environment that encourages inclusion, self-advocacy and increased independence. Methods of data collection and analysis are explored throughout this course. This course meets the behavioral strategies requirement for the State of Maine endorsements: Teacher of Students with Disabilities, K-8 and 7-12. Prerequisite: SED 310 or permission of instructor. 3 Cr

SED 355 Transitional Issues for Students with Disabilities

This course provides instruction in techniques and resources used to assist individuals with special needs experience success in school settings and transition into a wide range of environments. Emphasis is placed on transition into academic, independent living and vocational settings through the design of instructional programs that address individual needs and maximize quality of life. Accessibility, life skills, community-based instruction, and assistive technology are explored at length. Prerequisite: SED 310 or permission of instructor. 3 Cr

SED 362 Typical & Atypical Expressive & Receptive Language

The purpose of this course is to inform future educators on the stages of expressive and receptive language. It will explore syntax, morphology, semantics, phonology, and pragmatics. This class will examine atypical development, individual differences, and how and why they occur. The

course will provide the material with the knowledge that the study of children's language and communication disorders challenge students to apply theories of child development, speech and hearing science, and language development and disorders for the rewarding experience of providing language intervention to communicatively disordered children. Prerequisite: SED 310 or permission of instructor. 3 Cr

SED 370 Reading/Writing for the Exceptional Student

A course designed to assist prospective elementary and middle-level teachers in acquiring competencies to diagnose the reading and writing needs of the learner, plan an appropriate remedial program, and evaluate reading and writing achievement for the exceptional student in the regular classroom. A practicum experience is a requirement of the course. Prerequisite: EDU 334 or permission of instructor. 3 Cr

SES 102 Intro to Keyboarding

Instruction in beginning keyboarding on computers. The ending level competency (based on the 'C' level) is 30 net words per minute on one-minute timed writings. 1 Cr

SES 103 Intro to Formatting

A course designed to learn the formatting techniques required to produce letters, memoranda, tabulations, and manuscripts on computers. The ending speed level competency (based on the 'C' level) is 30 net words per minute on three-minute timed writing. Prerequisite: demonstrated competency of 30 net words per minute on one-minute timed writings. 2 Cr

SES 202 Document Production

The primary focus is on document production and the further development of speed and accuracy. The student is required to edit (correctly use grammar, punctuation, spelling, and sentence structure), proofread, compose, and use own judgment and knowledge in making formatting decisions on various documents such as: letters, memos, news releases, tables, reports, and other business documents. Prerequisite: Demonstrated competency of 40 words per minute on three-minute timed writings and SES 103. 3 Cr

SES 211 Transcription Studies

A course allowing the student to develop competency in machine/oral transcription. It stresses the importance of proofreading and editing skills, which involves the integration of the principles of spelling, grammar and punctuation into the production of mailable transcripts. The student also studies legal, medical and other specialized terminology and performs transcription applications on computers. Prerequisite: SES 202. 3 Cr

SES 215 Medical Terminology

A course designed to study medical terminology. Students gain the ability to understand complex medical terms. 3 Cr

SES 246 Medical Transcription

A course designed to study medical transcription. The course applies medical terminology through machine transcription. Prerequisite: CSE 101, CSE 201, SES 202, SES 215. 3 Cr

SOC 114 Intro to Sociology

The study of the concepts, theories and research findings of the discipline of sociology. Stressed are the following concepts, institutions and topics: culture, society, socialization, the family, social stratification, intergroup relations, deviance, demography, collective behavior, popular culture, social movements, and social change. 3 Cr

SOC 208 Sociology of the Family

An introduction to the sociological study of the family to include the major theories found in the current literature. Cross-cultural and sub-cultural perspectives are explored. There is also discussion of power relationships, role development, socialization of children, family reorganization, and malfunction and adaptation within the family structure. Prerequisite: SOC 114 or permission of instructor. 3 Cr

SOC 219 Special Topics in Sociology

Course designed to allow students to pursue study in an area within Sociology. Courses vary vary in content in response to student interest and demand. Recent offerings have included Crime and Society, Police and Society, and Rural Poverty. Prerequisite: ANT 101 or SOC 114 or permission of instructor. 3 Cr

SOC 220 Deviant Behavior

An examination of the concept of deviance in behavior and exploration of the various sociological theories and perspectives for viewing deviance. Among the issues discussed are labeling, social control and collective deviance. Prerequisite: SOC 114 and sophomore standing, or permission of instructor. 3 Cr

SOC 301 Rural Sociology

A course focusing on the social institutions of rural society. Emphasis is on the family, church, and schools. The impact of changes in the industrialized urban areas upon rural life is examined. Special attention is paid to problems of rural Maine. Prerequisite: SOC 114 and junior standing, or permission of instructor. 3 Cr

SOC 310 Childhood & Society

The course is intended to provide an in-depth look at childhood throughout history and in contemporary America. The course is roughly divided into two parts.

First the course provides a cross-cultural examination of the idea of childhood with particular reference to the evolution of the idea of childhood in western culture. Second, the course examines childhood and pre-adolescence in the United States at the start of the 21st century. In the latter section, students examine socialization theories as they relate to contemporary American children's peer cultures and American culture generally. Prerequisite: SOC 114. 3 Cr

SOC 319 Special Topics in Sociology

Course designed to allow students to pursue study in an area within Sociology. Courses vary vary in content in response to student interest and demand. Recent offerings have included Crime and Society, Police and Society, and Rural Poverty. Prerequisite: ANT 101 or SOC 114 or permission of instructor. 3 Cr

SOC 419 Special Topics in Sociology

Course designed to allow students to pursue study in an area within Sociology. Courses vary vary in content in response to student interest and demand. Recent offerings have included Crime and Society, Police and Society, and Rural Poverty. Prerequisite: ANT 101 or SOC 114 or permission of instructor. 3 Cr

SPA 101 Elementary Spanish I

Developing skills in reading and writing and in speaking and listening to Spanish. The course provides students with opportunities for self-expression and encourages effective oral and written communication skills. Students begin to acquire a basic proficiency in Spanish, and are introduced to the common phrases and vocabulary, the verb forms of the present tense, and the grammar and structure of the language. 3 Cr

SPA 102 Elementary Spanish II

A continuation of SPA 101 taking the basics and building from there to allow students to develop fluency in writing and speech. The emphasis is on developing skills in reading and writing, on comprehension and on practicing spoken Spanish. The course provides students with opportunities for self-expression and encourages effective oral and written communication skills. Prerequisite: SPA 101 or basic knowledge of Spanish with permission of instructor. 3 Cr

SPE 104 Public Speaking

Students will investigate and put into practice the various styles and methods of communicating publicly, from notes, ex tempore, memorized, and reading aloud. Students will learn the skills relevant to good speech communication: conception, organization, techniques of generating interest, the use of audio-visual aids, audience inclusion and involvement, and overcoming performance apprehension. 3 Cr

SSC 203 Contemporary Social and Political Issues

A different social or political issue is explored each week or two; team taught with half the course dealing with social issues and half the course dealing with political issues. This course provides the opportunity for a cross-disciplinary approach and seeks to introduce students to important social science concepts and research findings. Prerequisite: sophomore standing. 3 Cr

SSC 210 Human Sexuality

An interdisciplinary inquiry into the historical, cultural and developmental issues in human sexuality. Current literature and research are reviewed. Prerequisite: sophomore standing or permission of instructor. 3 Cr

SSC 302 Intro to Counseling Techniques

This course orients students to the field of applied psychology. It is designed to help the beginning mental health professional develop basic therapeutic skills, understand the role of the counselor and the unique dynamics which exist in the therapeutic relationship, understand the ethical nature of the relationship, and to begin to define a working definition of psychological growth and mental health from a multicultural perspective. This course balances theory and practice and provides students with the opportunity to integrate theoretical and practical learning through regular role-play, to examine their own therapeutic interventions, and to begin to define their own therapeutic style. Prerequisites: PSY 110 and PSY 230. 3 Cr

SSC 310 Demography and Human Ecology

A course introducing students to the study of human populations (Demography) and their relationships to and with the environment (Human Ecology). Topics covered include the socio-economic determinants of fertility, mortality and migration, carrying capacity, urbanization, and environmental stress. Students are expected to manipulate and analyze demographic data. An environmental policy analysis project synthesizes demography and human ecology. Prerequisite: MAT 113, junior standing, or permission of instructor. (SOC 114 recommended but not required.) 3 Cr

SSC 320 Research Methods & Design

A course designed to nurture an appreciation and understanding for the manner in which any question of interest can be methodically approached and possibly answered by applying a set of sequential methods. Students learn how to find information, read journal articles, pose research questions, select appropriate methods, select participants, select appropriate designs and statistical analyses, report research findings, and do the above in the most ethical manner. The primary goals in this course are for each student to gain experience with conducting and writing research reports for a community partner. This course includes a service learning aspect for

majors in the Behavioral Science & Community Studies program. During the semester, students are expected to make periodic progress reports on their projects, culminating in formal (convention-style) presentations to the class and community partners. Prerequisite: MAT 113, junior standing, or permission of instructor. 4 Cr

THE 101 Intro to Theatre

An introduction to the literary and practical aspects of the theatrical idiom by participating in classroom discussions on a survey of plays integral to the development of the theatre and the theatrical context. The class also includes participation in the making of theatre, through either involvement in a departmental production or a pre-approved independent project. Subjects include script reading and analysis, the creative components and structure of theatrical art, stage conventions, historical perspectives, and the nature of creative and collaborative work. 3 Cr

THE 102 Fundamentals of Acting

An introduction to the talents and skills used on stage by the actor. Students' voices, body movement, and imaginations are developed through a series of exercises. Emphasis is on analysis of characters and scripts as well as performance skills. Prerequisite: THE 101. 3 Cr

THE 116 Play Production: Technical

Meets weekly for students who wish to fulfill technical roles in UMM theatrical productions. During classes students participate in production meetings (during which communication and planning for productions occurs), workshops in the backstage arts (lighting, sound, costume and set design), and general theatre support activities (set construction, electrics, publicity, box office and house management). May be repeated for credit. 1-3 Cr

THE 116 Play Production: Performance

Students who wish to receive credit for playing roles in UMM theatrical productions should enroll in this course. Auditions held at the beginning of each term are open to all, whether enrolled in the course or not. Students who are not cast may switch to Play Production: Technical. Those involved in certain technical positions (such as stage management) may meet during this class time. May be repeated for credit. 1-3 Cr

THE 211 Theatre History

An investigation of the development of Western theatre from its roots in Greek tragedy to the contemporary. Special focus is on the nature of theatre-in-performance including the physical development of theatre spaces, staging concepts, and the artist-audience relationship. Prerequisite: ENG 101 and THE 101, or permission of instructor. 3 Cr

THE 219 Topics in Theatre

Studies in practical aspects and styles of theatre production. Practical elements can include stage management; costume, set, lighting or sound design; or makeup, movement, and voice for the actor. Styles can include readers' theatre, non-Western theatre, improvisation, or musical theatre. Prerequisite: 100-level theatre course or permission of instructor. May be repeated for credit. Possible topics include

Stagecraft and Design

Sets, lights, costume and sound design, construction and execution. Prerequisite: THE 116 Play Production: Technical. 3 Cr

Directing

An investigation into the work of the theatrical director, the process of guiding the cast through the process that brings the script and the director's concept to the stage. Subjects covered will include script analysis, conceptualization, and the practical aspects of bringing these ideas to realization. Directors will work with actors through casting, rehearsal, and performance on two projects. Prerequisite: THE 101, THE 211, and THE 311, or permission of instructor. 3 Cr

THE 311 Advanced Acting

An upper-level investigation of the skills used on stage by the actor. Emphasis is on scripted material including analysis, characterization, and the actors' techniques of voice, movement, and style. Each actor will compile a "portfolio" of monologues to use for audition pieces. Prerequisite: THE 102 and 116 Performance, or permission of instructor. 3 Cr

THE 319 Topics in Theatre

Studies in practical aspects and styles of theatre production. Practical elements can include stage management; costume, set, lighting or sound design; or makeup, movement, and voice for the actor. Styles can include readers' theatre, non-Western theatre, improvisation, or musical theatre. Prerequisite: 100-level theatre course or permission of instructor. May be repeated for credit. Possible topics include Stagecraft and Design and Directing. 3 Cr

THE 361 Advanced Project I

An independent study opportunity that allows students to progress beyond the cataloged courses by working with a mentor in the program. Students may undertake advanced study in areas such as Design and Directing or explore areas outside the catalog. Students may work in existing courses and through a learning contract with the instructor supplement the classroom learning. For instance, a student may participate in Advanced Acting course in such a way as to fulfill the requirements of Acting III. A student may also file a Non-traditional Study Application to register for this course. Prerequisite:

60 cr, completion of the common requirements for the Theatre Concentration, and two other courses at the 3/400 level; or permission of instructor. 3 Cr

THE 362 Advanced Project II

An independent study opportunity that allows students to progress beyond the cataloged courses by working with a mentor in the program. Students may undertake advanced study in areas such as Design and Directing or explore areas outside the catalog. Students may work in existing courses and through a learning contract with the instructor supplement the classroom learning. For instance, a student may participate in Advanced Acting course in such a way as to fulfill the requirements of Acting III. A student may also file a Non-traditional Study Application to register for this course. Prerequisite: 60 cr, completion of the common requirements for the Theatre Concentration, and two other courses at the 3/400 level; or permission of instructor. 3 Cr

THE 461 Advanced Project III

An independent study opportunity that allows students to progress beyond the cataloged courses by working with a mentor in the program. Students may undertake advanced study in areas such as Design and Directing or explore areas outside the catalog. Students may work in existing courses and through a learning contract with the instructor supplement the classroom learning. For instance, a student may participate in Advanced Acting course in such a way as to fulfill the requirements of Acting III. A student may also file a Non-traditional Study Application to register for this course. Prerequisite: 60 cr, completion of the common requirements for the Theatre Concentration, and two other courses at the 3/400 level; or permission of instructor. 3 Cr

THE 462 Advanced Project IV

An independent study opportunity that allows students to progress beyond the cataloged courses by working with a mentor in the program. Students may undertake advanced study in areas such as Design and Directing or explore areas outside the catalog. Students may work in existing courses and through a learning contract with the instructor supplement the classroom learning. For instance, a student may participate in Advanced Acting course in such a way as to fulfill the requirements of Acting III. A student may also file a Non-traditional Study Application to register for this course. Prerequisite: 60 cr, completion of the common requirements for the Theatre Concentration, and two other courses at the 3/400 level; or permission of instructor. 3 Cr

VID 101 Digital Video Production

This course provides the basics of video production, incorporating both lecture and laboratory experience. Students will learn about shot composition, sound, lighting, and editing, all from a digital video format. Students will produce and edit several projects from a

variety of media formats, depending on the interests of the student. Prerequisite: Sophomore standing or permission of instructor. 3 Cr

VID 221 Intermediate Digital Video Production

This course builds on the skills mastered in VID 101. It incorporates both lecture and laboratory experience. Students will continue to refine their field production skills, including shot composition, sound, and lighting. In particular, students will learn some of the more complicated editing techniques of non-linear post-production. Students will produce and edit projects from a variety of media formats, depending on the interests of the student. Prerequisite: VID 101 or CMY 110, sophomore standing, or permission of instructor. 3 Cr

WRI 207 Studies in Composition and Grammar

A study of the basic theories and practices in modern grammar and usage, within the context of improving essay-writing skills. Although the course deals primarily with traditional grammar, introduction to generative, structural and transformational systems may also be considered. While students work on individual writing projects under the direction of the instructor, the class at the same time functions as a group to discuss readings and to critique student work to develop editing and revision skills. Prerequisite: ENG 101 or permission of instructor. 3 Cr

WRI 208 Technical Writing in the Information Age

Focuses on the traditional components of professional communication as well as its current trends and areas of future development. Students learn the theory and practices of technical writing as well as the techniques and formats routinely required in industry, business, government, and social services. Through selected course projects students will step-by-step build a writing portfolio that will leave them job ready. Prerequisite: ENG 101 or permission of instructor. 3 Cr

WRI 211 Beginning Creative Writing

An introductory writing course that focuses on the knowledge, attitudes, and techniques essential to successful creative writing. It is open to writers and aspiring writers of various levels of ability providing course prerequisites have been met. Genres treated include poetry, fiction, and creative nonfiction. While much of the course consists of a workshop format, lectures and class discussions cover such topics as sentence effectiveness, writer's block, dynamics of language, metaphor, meter, characterization, plotting, dialogue, narrative point of view, scene construction, revision, and publication. Prerequisite: ENG 101 with a grade of B- or better, or permission of instructor. Offered pass/fail or for a letter grade at the option of the instructor. 3 Cr

WRI 226 Copyediting & Proofreading

This course will teach students the basics of proofreading and copyediting for print and electronic publications such as newspapers, magazines, books, journals, and web sites. Students will be introduced to standard publication processes and the major styles, reference works, and tools of editorial work. Emphasis will be placed on the development of skills in proofreading, copyediting, and editorial judgment, as students learn the different functions of proofreaders and copyeditors, the vocabulary of print and document design, and acquire a good understanding of the editorial tasks involved in taking manuscripts into print. Prerequisite: ENG 101, WRI 207, or permission of instructor. 3 Cr

WRI 308 Creative Nonfiction Writing: Intermediate

Follows ENG 233 Techniques of Creative Nonfiction in the creative writing sequence. This course allows writers to explore and experiment with many forms of creative nonfiction prose writing: the essay in its many garbs (disguises), the article, the memoir, the commentary, the interview, the review, and other hybrids currently being invented. Students begin with the personal essay and move into whatever form interests each writer as he/she puts together a portfolio of creative nonfiction. Aside from some lecture and discussion, the course employs principally a workshop format. Prerequisite WRI 211, a 200-level techniques course, or permission of instructor. 3 Cr

WRI 309 Topics in Intermediate Creative Writing

An opportunity for workshop-based writing courses in genres other than poetry, fiction, and creative nonfiction, and for writing courses that otherwise choose a focus beyond these designated genres (as a recent example, Writing from Life). Prerequisite: WRI 211, a 200-level techniques course, or permission of instructor. 3 Cr

WRI 352 Fiction Writing: Intermediate

Follows ENG 231 Techniques of Fiction in the creative writing sequence. A course on the writing of fiction, including such elements as story construction, narrative point of view, character, voice, and dialogue. Students will apply these elements both in exercises and in drafts of their own stories. Aside from some lecture and discussion, the course employs principally a workshop format. Offered pass/fail. Prerequisite: WRI 211, a 200-level techniques course, or permission of instructor. 3 Cr

WRI 353 Poetry Writing: Intermediate

Follows ENG 232 Techniques of Poetry in the creative writing sequence and is intended for those students interested in pursuing the art of poetry writing. The course will function as a workshop or writer's group, in which both assigned exercises and works-in-progress by each student are read and critiqued by the other writers in the class and by the instructor. In addition, as class interest and need dictates, blocks of time may be devoted

to lecture and/or discussion of the tools of prosody, particularly as they relate to the students' own writing. Prerequisite: WRI 211, a 200-level techniques course, or permission of instructor. 3 Cr

WRI 414 Grant and Proposal Writing

An introduction to the art and science of preparing grant proposals for nonprofit organizations. Emphasis is placed on writing and research skills. By examining the nature and interests of granting agencies and applicant organizations, students learn the importance of relationship-building and how to match funding needs with appropriate grant opportunities. The preparation of mock grant proposals takes students through the entire grant application cycle of need definition, grant research, program and budget planning, proposal writing, submission/review/funding, and post-award administration. Prerequisite: Knowledge of nonprofit/public organizations, writing ability, and Internet skills. 3 Cr

WRI 471 Advanced Creative Writing

A workshop for writers at an advanced level. The course is interdisciplinary in scope. Participants work in a variety of genres. Any given class might include novelists, short story writers, poets, playwrights, screenwriters, and writers in creative nonfiction. Students will submit work on a regular basis for class critiquing and will read and critique the work of others in the class. Some work submitted might include revised versions of previously submitted work. Prerequisite: 300-level writing course or permission of instructor. Offered pass/fail. 3 Cr

WST 110 Intro to Women's Studies

This course examines women's positions in and contributions to society, exploring the genesis, development, and impact of our culture's assumptions about women's nature and women's roles. As an interdisciplinary study of women's experience in cross-cultural and historical perspective, the course investigates women's personal and public lives, and seeks to identify and understand the particularly "female" aspects of these experiences. Students are introduced to the issues, perspectives, and findings of this relatively new field of scholarship, which examines the role of gender in the construction of knowledge. Prerequisite: ENG 101 or permission of instructor. 3 Cr

WST 212 Special Topics in Women's Studies

Courses designed to allow students to pursue study in an area within Women's Studies. Courses vary in content in response to student interest and faculty availability. Some possible courses could include: Anthropology of Women; Women and Globalization; Feminist Psychology, and many more. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

WST 312 Special Topics in Women's Studies

Courses designed to allow students to pursue study in an area within Women's Studies. Courses vary in content in response to student interest and faculty availability. Some possible courses could include: Anthropology of Women; Women and Globalization; Feminist Psychology, and many more. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

WST 410 Feminist Theory

This course is intended to increase students' awareness of the multiplicity of feminist theories, develop students' ability to critically examine theoretical assumptions and to synthesize and assess theoretical arguments, and increase students' awareness of how such gender theories relate to their lives. Students gain the conceptual and theoretical tools to begin to identify and assess a variety of theoretical positions that currently call themselves 'feminist' and appreciate the interconnections of philosophical theories and practices. Through reading both classic and contemporary selections of feminist and non-feminist thinking about women, men, and society, students engage with some of the central problems within feminist theory. Prerequisite: WST 110 or Permission of Instructor. 3 Cr

WST 412 Special Topics in Women's Studies

Courses designed to allow students to pursue study in an area within Women's Studies. Courses vary in content in response to student interest and faculty availability. Some possible courses could include: Anthropology of Women; Women and Globalization; Feminist Psychology, and many more. Prerequisite: Dependent upon the course offered, or permission of instructor. 3 Cr

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