Summer Session Calendar 1988

(Registration continues through the beginning of each session.)

<table>
<thead>
<tr>
<th>7-Week Session</th>
<th>4-Week Session</th>
<th>4-Week Session</th>
<th>7-Week Session</th>
<th>6-Week Session</th>
<th>4-Week Session</th>
<th>Variable Session</th>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<td>7</td>
</tr>
<tr>
<td>May 15- June 30</td>
<td>May 15- June 9</td>
<td>June 12- July 7</td>
<td>July 3- Aug. 18</td>
<td>July 3- Aug. 11</td>
<td>July 17- Aug. 11</td>
<td>Variable Dates</td>
</tr>
</tbody>
</table>

Residence Halls Open
(Refer to the Accommodations section of this catalog for more information)

<table>
<thead>
<tr>
<th>Residence Halls Open</th>
<th>First Day of Classes</th>
<th>Last Day to ADD or Change Credit or Grade Options*</th>
<th>Last Day to DROP to receive 100% tuition refund</th>
<th>Last Day to DROP with no grade notation</th>
<th>Last Day to WITHDRAW With Grade of ‘W.’</th>
<th>Session Ends</th>
<th>Holidays: University Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun., May 14</td>
<td>Mon., May 15</td>
<td>*As a general rule, students may add classes through the second class meeting</td>
<td>May 12</td>
<td>May 19</td>
<td>June 2</td>
<td>June 30</td>
<td>Monday, May 29, Memorial Day</td>
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<tr>
<td>2:00 p.m.</td>
<td>Sun., May 14</td>
<td></td>
<td>May 12</td>
<td>May 19</td>
<td>May 24</td>
<td>June 9</td>
<td>Tuesday, July 4, Independence Day</td>
</tr>
<tr>
<td>2:00 p.m.</td>
<td>Mon., July 3</td>
<td></td>
<td>June 30</td>
<td>July 10</td>
<td>July 21</td>
<td>Aug. 18</td>
<td></td>
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<tr>
<td>Sun., July 2</td>
<td>Mon., July 3</td>
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<td>July 30</td>
<td>July 7</td>
<td>July 19</td>
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<td>2:00 p.m.</td>
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<tr>
<td>Sun., July 2</td>
<td>Mon., July 3</td>
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<td>July 19</td>
<td>Aug. 11</td>
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<td>2:00 p.m.</td>
<td>Mon., July 3</td>
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<td>July 7</td>
<td>July 19</td>
<td>Aug. 11</td>
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<tr>
<td>Sun., July 16</td>
<td>Mon., July 17</td>
<td></td>
<td>May 12</td>
<td>May 19</td>
<td>June 24</td>
<td>June 9</td>
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</tbody>
</table>

The dates shown in this calendar are subject to change at any time by official action of the University of Southern Maine.

Students must comply with the Maine Immunization Law. Please see page 51.
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The University of Southern Maine shall not discriminate and shall comply with applicable laws prohibiting discrimination on the grounds of race, color, religion, sex, sexual orientation, national origin or citizenship status, age, handicap, or veterans status in employment, education, and all other areas of the University. The University of Southern Maine does not discriminate on the basis of handicap in admission or access to, or treatment or employment in, its programs and activities, in compliance with Section 504 of the Rehabilitation Act of 1973 and its implementing regulations. In addition, the University of Southern Maine does not discriminate on the basis of sex in its educational programs or activities, in compliance with Title IX of the Education Amendments of 1972 and its implementing regulations. Inquiries about the application of Section 504 or Title IX should be directed to Sue Ellen Bordwell, EEO Director, 7 College Avenue, Gorham, Maine 04038. Telephone number: 780-5171. Inquiries about both areas may also be referred to the Office of Civil Rights, U.S. Department of Education, Region I, John W. McCormack Post Office and Courthouse Building, Boston, MA 02109.

The University of Southern Maine reserves the right to revise, amend, or change items in this catalog from time to time. Readers of this catalog should inquire as to whether any such revisions, amendments, or changes have been made since the date of publication. The University reserves the right to cancel course offerings, to set minimum and maximum size of classes, to change designated instructors in courses, and to make decisions affecting the academic standing of anyone participating in a course or program offered by the University of Southern Maine.
The University of Southern Maine (USM) is a coeducational, public university located in Portland and Gorham, Maine, with an enrollment of over 10,000 students during the regular academic year. The University is accredited by the New England Association of Schools and Colleges. During the summer, over 4,000 students attend classes and take advantage of the abundant recreational activities offered in southern Maine. With its two campuses, USM combines the resources of a large university with the more personal approach of a smaller college.

The University operates from 8:00 a.m. to 9:40 p.m., offering classes in liberal arts, teacher preparation, nursing, business, and law. Over 350 credit and noncredit courses will be available to students during the summer of 1989. In addition, unique institutes and programs including the prestigious Stonecoast Writers' Conference, an Elderhostel, a computer seminar for high school students, and several institutes for teachers will bring people together to share ideas, develop professional expertise, learn new skills, or extend interest. Over 25 special summer programs will be offered on the University campus, as well as at Wolfe's Neck Farm in Freeport.

USM is part of the rich past, the dynamic present, and exciting future of southern Maine.

The campuses of USM offer a number of unique points of interests—a blend of the old and the new. On the Gorham campus, which is more than 100 years old, is the McLellan House, dating from 1773 and believed to be the oldest brick house in the state of Maine. The Art Gallery, built in 1878, was an early Gorham town hall. Corthell Hall was built in 1878 and named for the first president. The President's house was built in 1906 and is the home of the president.

Among the Portland campus buildings are the Alumni Center, the only remaining building of the Deering Estate, an eighteenth-century farm; the seven-story Center for Research and Advanced Study, which houses the School of Law and some University administrative offices; and a modern science building which houses the Southworth Planetarium, considered to be one of New England's finest planetariums.

In addition, the Intown Center at 68 High Street was the early site of Portland Children's Hospital, was later the first location of the University of Maine School of Law, and now provides a convenient location for noncredit programs in the downtown area, as well as a site for USM's Community Television System.
Summer in Maine—a blend of educational, cultural, and recreational activities.

Summer offers a blend of the educational, cultural, and recreational. Poetry readings, music concerts, planetarium shows, art exhibits, and faculty lectures will enrich your campus stay. Complete and modern gymnasiums are headquarters for our popular Lifeline programs which are available to summer students.

Students are encouraged to take advantage of the University's ideal location. An attractive vacation area, southern Maine offers many activities for visitors in the summertime. A nationally recognized orchestra, resident theatre and dance companies, an exciting art museum, and picturesque shopping make the city of Portland a cultural center for the area. In addition, the surrounding lakes, mountains, and fabulous Maine coast offer a variety of recreational activities during the summer. Two coastal state parks (Crescent Beach and Two Lights) are about a half-hour's drive from either campus. To the west, Sebago Lake State Park is about a 45-minute drive from the Gorham campus.

This summer, the University of Southern Maine will host a variety of activities for the entire family. These will include:

**Music**
- A chamber music series will take place on the Gorham campus.

**Art**
- USM's Art Gallery will host a special Japanese Sculpture exhibit.

**Lectures**
- A faculty lecture series will be held on the Portland campus.

**Planetarium**
- Our Planetarium will again host shows every Friday and Sunday evenings throughout June.

**Summer Collegians**
- A wide range of children's activities are planned for this summer including:
  - Workshops in art, drama, science, and computers
  - Weekly films such as *The Shaggy Dog*, *Escape to Witch Mountain*, *Snow White*, and *The Fox and The Hound.*
  - Evening seminars in the stars and the planetarium...and much more!
- See the Summer Collegians section in this catalog.

For more information regarding these special Summer Selections, contact the Summer Session Office at 780-4076.

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**Lewiston-Auburn College**

Watch for Lewiston-Auburn College's special summer lecture series including topics such as Lewiston-Auburn History, Tourism in Maine, and more.

Also, children's workshops will be available at the Lewiston-Auburn College. Call 783-4860 for more information.
USM has many offices designed to assist you as you involve yourself in Summer Session. The reference list below highlights a few of the offices frequented during the summer. Most offices on campus are open from 8:00 a.m. to 4:30 p.m. Some offices will have extended hours to accommodate student registration. Please contact the Summer Session office for more information.

<table>
<thead>
<tr>
<th>Office</th>
<th>Location</th>
<th>Telephone Number</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advising and Academic Information Department</td>
<td>110 Payson Smith (Portland) 109 Corthell Hall (Gorham)</td>
<td>780-4040/4408 780-5340</td>
<td>John Keysor John Farrar</td>
</tr>
<tr>
<td>Department of Conferences</td>
<td>68 High Street (Portland)</td>
<td>874-6506</td>
<td>Kathie LeBel</td>
</tr>
<tr>
<td>Financial Aid</td>
<td>202 Corthell Hall (Gorham)</td>
<td>780-5250</td>
<td>Melodie Havey</td>
</tr>
<tr>
<td>Graduate Education</td>
<td>118 Bailey (Gorham)</td>
<td>780-5306</td>
<td>Scott Grant</td>
</tr>
<tr>
<td>Off-Campus Programs</td>
<td>110 Payson Smith, (Portland)</td>
<td>780-4470</td>
<td>Kathleen Bouchard</td>
</tr>
<tr>
<td>Professional Development Center</td>
<td>305 Bailey Hall (Gorham)</td>
<td>780-5315</td>
<td>George Lyons</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Joyce Martin</td>
</tr>
<tr>
<td>Registrar's Office</td>
<td>113 Corthell Hall (Gorham)</td>
<td>780-5230</td>
<td>Diane Hoyt</td>
</tr>
<tr>
<td>Residence Life</td>
<td>100 Upton Hall (Gorham)</td>
<td>780-5240</td>
<td>Joseph Austin</td>
</tr>
<tr>
<td>Student Billing Office</td>
<td>128 Payson Smith (Portland) 110 Corthell Hall(Gorham)</td>
<td>780-4026 780-5200</td>
<td>Norma Manning Lorraine Brown</td>
</tr>
<tr>
<td>Summer Session</td>
<td>106 Payson Smith (Portland) Gorham Campus (after May 15)</td>
<td>780-4076 780-5264</td>
<td>Rosa Redonnett</td>
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</tbody>
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Extended Hours for Registration

<table>
<thead>
<tr>
<th>Office</th>
<th>Location</th>
<th>Time Period</th>
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</thead>
<tbody>
<tr>
<td>Advising and Academic Information Department</td>
<td>110 Payson Smith</td>
<td>May 15-16 (8:00 a.m.-7:30 p.m.)  July 3, 5 (8:00 a.m.-7:30 p.m.)</td>
</tr>
<tr>
<td>Summer Session Office</td>
<td>Gorham Campus</td>
<td>May 15-16 (8:00 a.m.-7:30 p.m.)  July 3, 5 (8:00 a.m.-7:30 p.m.)</td>
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<tr>
<td>Student Billing Office</td>
<td>128 Payson Smith</td>
<td>May 15-16 (8:00 a.m.-7:30 p.m.)  July 3, 5 (8:00 a.m.-7:30 p.m.)</td>
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</table>
Institutes for Educators

Summer Session and The Professional Development Center for the College of Education sponsor special summer programs for graduate and recertification credit. Unless otherwise noted, call 780-5326 for further information and for recertification course registration.

Health and Fitness for Older Adults II Institute
REC 279-01
June 23-24
This two-day institute will examine and analyze contemporary health and fitness problems and present practical information relevant to the design and conduct of wellness and fitness programs for the elderly and frail senior adult. Topics will include: 1) biomechanics of aging; 2) motivation and the elderly; 3) depression and aging; 4) arthritis and the older adult; 5) drugs and the elderly; 6) exercise for the mature adult; 7) dance, exercise, and creative activities for the frail elderly; and 8) practical health fitness tests and measurements. Presenters will address these issues from the perspective of activity directors, hospital personnel, senior citizens, health and physical educators and other health-related professionals. (Undergraduate credit) For information and to register, call Summer Session at 780-4076.

ESL: Techniques for Conducting Comprehensive Language Assessment EPDI 589-51 June 26-30
This course introduces teachers to measurement tools designed for use with K-12 students whose first language is not English. Among the areas covered are diagnosis for limited English proficiency (LEP), diagnosis for LEP grade placement, several language assessment instruments, and strategies recommended for structured language program exit. Extensive reading as well as student projects is required; the latter will be submitted a month after the institute ends. (Inservice graduate credit) Instructor: Susan Reichman. Permission required.

Institute in Gerontology: Aging, Death and Bereavement HRD 645-51 June 26-30
This course examines the phenomenon of death in modern society, with a special emphasis on implications for older persons. Issues such as the meaning of death, the dying process, survivorship, and suicide are treated. Special attention is paid to the role of the professional in death education. It is important that people register early for this institute as reading and other activities are required before the first class. Those who register after June 1 require permission from the instructor. (Graduate credit) Instructor: E. Michael Brady (780-5312)

Guiding the Gifted Child EPD 594-51 June 26-30
This course is for individuals who are interested in focusing on the psychological and sociological needs of gifted and talented students in various learning environments. Topics include motivation, discipline, stress management, communications, peer and sibling relationships, parent-child interactions, and teacher-child interactions. (Graduate credit) Instructor: James T. Webb, Wright State University

Storytelling EPD 530-51 June 26-30
This course is designed to deepen understanding and appreciation of storytelling as an art form, a performance genre and an educational force. The focus includes a brief history of storytelling, its purposes and values, types of literature suitable for oral presentation, techniques of preparing and presenting stories, styles of telling, and the child as storyteller. (Inservice graduate credit) Instructor: Mark Pentilescu

Choral Music Workshop MUE 522-01 June 26-30
Singing, discussion and lecture about the art of choral singing. The class will prepare one or more major choral works and study them from the perspectives of analytical structure, conducting technique, and healthy use of the voice. Professor Gudrun Schrofel-Gatzmann, associate conductor of the Madchenchor of Hannover, Germany, will be guest professor, specifically addressing the issue of choral voice building. (Graduate credit) Contact Department of Music for more information.

Sport Psychology Institute
PSY 400-01
June 22-24
This is a two-and-a-half day institute that will examine a number of current issues in sport psychology. Topics include: 1) designing and implementing interventions with team athletes; 2) an analysis of psychological momentum in sports; 3) athletic staleness and burnout: diagnosis, prevention and treatment; 4) the use of biofeedback in sport psychology; 5) a coach's view of sport psychology; and 6) other topics. Presenters will address these issues from the perspective of the athlete, coach, sports professional and parent. (Undergraduate credit, recertification credit) For more information and to register, call Summer Session at 780-4076.

Newspapers in Education EDW 472-51 June 26-30
Through hands-on experiences and modeling, participants will learn to create and adapt highly-motivating newspaper activities to teach concepts and skills in any subject or grade level. Emphasis is placed on classroom applications of educational research on collaborative learning, learning styles, thinking skills, whole brain processing, and integrated instruction. Packets of free materials are distributed. (Graduate credit) Instructor: Becky Hayes Boober (289-5982)
Language Development of Special Needs Children
EPD 595-51
June 26-30, July 6-7
This course is designed for special educators and speech pathologists who wish to develop a better understanding of language development, language disorders, and language intervention. Participants will learn aspects of normal language development, and compare normal development with that of children with language disorders. Topics include: implications of applying interventions, issues related to specific populations, and how professionals work in the classroom. (Graduate credit) Instructor: Marilyn Kertoy, University of Maine

Southern Maine Writing Project
EPD 520-51
June 26-July 14
Affiliated with the National Project Network, SMWP conducts an intensive three week writing institute for classroom teachers and language arts specialists in elementary, junior and senior high schools. Participants will practice theory-based strategies for teaching writing as process, participate in reading/writing groups, and develop presentations for subsequent in-service workshops in Maine schools. (Graduate credit) Coordinator: George Lyons

Project for the Development of Instructional Support Teams
EPD 525-51
June 26-July 14
This project is designed to assist school districts in their preparations to implement Maine’s certification law. Participants in school teams of four will be able to develop and practice skills that Support Team members need in order to observe and coach teaching in terms of MDECS teacher competencies for certification: Classroom Instruction, Classroom Management, Curriculum Planning, Communication, and Evaluation of Students. (Graduate credit) Instructor: George Lyons (780-5326)

Biological and Health-Fitness Aspects of Aging
HRDX 531-51
July 3-14
This course is designed for educators, health-related personnel and other persons interested in the biological and health-fitness aspects of older adults. Topics include: biological theories and concepts of aging; motor skills and locomotion characteristics of senior adults; supervision and management elements of health-fitness programs; and procedures for evaluating activity programs and facilities. (Graduate credit) Instructor: John Piscopo, State University of New York at Buffalo

Brain Research and Learning
EDIS 991-51
July 5-7
This course provides an overview of research with a focus on implications and applications for educational and clinical settings. Topics include: physiology of the brain, life-span brain development, learning, memory and consciousness, pain and the malfunctioning mind. (Recertification credit) Instructors: Cherie Foster, John Broida

A Multi-Dimensional Approach to Discipline
EDIS 905-51
July 6-7
This two day workshop with nationally renowned psychologist Dr. Irwin Hyman is based on the concept that there are a variety of ways of viewing child development, behavior and misbehavior. Six distinct theoretical ways to view misbehavior will be explored with a seventh process approach representing an integration of common processes used in the treatment of misbehavior. This program will help frontline professionals identify their own individual conceptual orientation toward discipline. Based on this knowledge, each person can develop expertise in the approach for which they are most suited. (Recertification credit) Instructor: Dr. Irwin Hyman, Professor of Psychology, Temple University.

Hearing Impaired: Mental Health Needs
EPD 588-51
July 10-14
This course examines five areas central to mental health issues related to hearing impaired children and their families: psychology of deafness, needs of families of deaf children, mental health needs of deaf individuals, intervention strategies, and development of appropriate support services. The course will be co-taught with national speakers. (Graduate credit) Instructor: Lynn Schardel (781-3165)

Music for Exceptional Learners
MUE 521-01
July 5-14
This course will address learning characteristics of all categories of exceptionalities with specific reference to music at all levels and in all areas. (Graduate credit; recertification credit) Instructor: Betty Atterbury.
Identifying and Nurturing Multiple Talents in Gifted Students
EPD 592-51
July 10-14
This course is for individuals responsible for 1) recognizing and nurturing multiple talents within students; 2) planning and implementing learning experiences using multiple talent activities; 3) developing instructional materials for enhancing multiple talents; 4) creating learning environments conducive to creativity; and, 5) evaluating student growth in the multiple talent areas of productive thinking, communications, forecasting, decision making and planning. (Graduate credit) Instructor: Patti Drapeau

Intervention-Based Assessment in Reading and Writing
EPD 587-51
July 10-13
This institute is designed for reading/writing specialists, particularly those who are responsible for assessment and program design for individual students. A theoretical background in literary development is required (EDU 620). Participants will learn to incorporate instructional interventions into the assessment process, to see how responsive students are to effective, focused instructional techniques. The assessment model to be demonstrated was developed at Boston University's Center for the Assessment and Design of Learning. Participants will have the opportunity to observe assessment procedures through actual demonstrations with children. (Graduate credit) Instructor: Jeanne Faratore, Boston University. Contact: Margo Wood (780-5040)

In Celebration of Children's Literature
EDIS 899-51
July 12-14
This is an institute immersing the participants in the wonders of children's literature. Drawing upon the talents of authors, illustrators, storytellers, poets, university and master teachers/librarians, the course will provide participants with skills to use literature in exciting ways with students. The format includes large group lectures by guest faculty, sharing sessions among participants, and workshops exploring successful ways to share literature. (Recertification credit) Coordinator: Joyce Martin (780-5326)

Orientation to Deafness
EDIS 822-51
July 17-21
This course is suitable for professionals such as teachers and counselors, as well as interpreters. It explores the meaning of deafness and its ramifications for both deaf and hearing people in our society. The focus is on the culture and heritage of the deaf community, the role of an interpreter in deaf culture, and the cross-cultural implications of interpreting. (Recertification credit) Instructor: Gary Mowl, National Technical Institute for the Deaf. Prerequisite: ASL III or equivalent

Creating Community in Educational Environments
EPDI 590-51
July 17-21
This course explores ways to nurture empathy, resolve conflicts, open communication and create community in classrooms and schools. It examines how experiences in community help young people develop an informed social consciousness and a desire to make a difference in the world. This course includes presentations on such topics as moral development, social responsibility and conflict resolution as well as "promising practices" discussions facilitated by teachers who have been using effective strategies in their classrooms. Participants experience the dynamics of community building within the course itself. The program is designed for K-12 teachers, school administrators, school board members and parents. (Inservice graduate credit) Instructor: Shelley Berman

Whole Language Classrooms: PS-1
EDIS 692-51
July 17-21
This is a recertification course for teachers of preschool, kindergarten or first grade children focused on teaching through the whole language approach. The focus is on whole language practices, the language experience and the writing process for young children, shared books and thematic teaching. (Recertification credit) Instructor: Judy Kennedy

Whole Language: Creating a Natural Language Environmnet-Grades 2-5
EDIS 694-51
July 17-20, July 24-27
A hands-on workshop assisting grades 2-5 teachers in devising and implementing whole language classrooms is the focus of a two-week morning course.

The course includes many suggestions for organizing language centered instruction, that foster spoken and written language across the curriculum, following successful practices in the British primary schools. (Recertification credit) Instructor: David Townsend, Christ Church College

Institute on Gifted Females
EPD 593-51
July 17-28
This course is for individuals who are interested and involved in identifying and nurturing gifts in female students. The course will examine the research literature pertaining to gifted females. Strategies for responding to the academic, affective, and sociological needs of gifted females in schools and in communities will be examined. (Graduate credit) Instructor: Patricia Kleine

Orff Certification Level 1
MUE 599-01
July 17-28
This course will provide experiences in basic Orff, movement and recorder which will enrich elementary music classroom curriculums. The course will be taught by a certified Orff instructor and other staff. Participants will receive Level I certification. (Graduate credit) Instructor: Sheran Fiedler

Jazz Educators Workshop
MUE 523-01
July 24-28
This course is designed for educators who seek to develop pedagogical skills in the jazz idiom. Topics covered will include conducting and rehearsal techniques, jazz styles and their historical development, literature and method books, basic jazz improvisation and arranging, as well as development, administration and promotion of a school jazz program. (Graduate credit) Instructor: Scott Reeves

Whole Language Conference
EDIS 898-51
July 25-27
This three day program is for K-8 teachers, administrators, consultants and parents who are interested in the concept of whole language teaching. It is for practitioners already involved in this approach to teaching, as well as for those wanting to explore this popular subject. Topics include: Whole language philosophy, language arts integration, developmental processes, managing a Whole Language program, strategies...
and techniques, parents as partners, and integrated curriculum. There will be general speakers and varied workshops so that participants can choose applicable sessions. (Recertification credit) Coordinator: Carolyn Holman (780-5081)

Action Research Institute: Reading and Writing
EPD 585-S1
August 1-4 and follow-up day
This institute is designed for educators who have a theoretical background in literacy development (EDU 620 or EDU 510) and are interested in conducting action research in their classrooms or schools. Topics include definition of action research, the teacher as researcher, selection of an area for investigation, and the design, implementation, and interpretation of research. Participants design a research project to be implemented during the 1989-1990 school year. Three Saturday morning follow-up sessions will be held (January, October, January and April) to provide continuing feedback and guidance to participants as they carry out their projects. (Graduate credit) Instructor: Margo Wood (780-5070)

Childhood Psychopathology Institute
PSY 400-02
August 3-5
This two-and-a-half day workshop will examine current issues in child mental health, including a discussion of topics such as negotiating parent and adolescent conflict, parenting, prevention of child sexual abuse and other related topics. Intended for teachers, guidance personnel and mental health professionals, this institute will utilize local, regional and national experts to facilitate discussion of theory and practice. (Undergraduate credit; recertification credit) For more information and to register, contact Summer Session at 780-4076.

Symposium on Writing: Middle/High School
EPD 598-S1
August 7-10
This workshop is intended for teachers of grades five through twelve, in both language arts and content areas. "Writing as a process," covering the steps of pre-writing, writing, revision and editing, is the course focus. Topics include the use of writing not only for testing students' knowledge, but also for promoting content learning. Narrative and expository writing assignments will be covered. Model assignments are provided with the opportunity to experience the writing process first-hand. Content assignments include: notetaking, essay writing, research papers, compositions, the writing/vocabulary development connection, and using creative writing to promote readiness for content learning. (Graduate credit) Instructor: Suzanne MacArthur.

Consulting for the Resource Teacher
EPD 597-S1
August 7-8
This course is for individuals responsible for coordinating and programming for exceptional students. The approach is non-categorical and process-oriented. Participants examine (1) the aspects of consultation as it relates to supervision, program development, collaboration and teaching; 2) the interpersonal skills necessary for effective consultation; and 3) the scope of consultation involvement (including direct and indirect services, issues of management and confidentiality). (Graduate credit) Instructors: Debra Lee Hovey and Susan Tarver

Elderhostel
Week I: July 9-15
Week II: July 16-22
Elderhostel, a network of over 400 colleges, universities, and other schools, combines the best tradition of education and hosteling. The USM Elderhostel offers week-long academic programs to people over the age of 60 or to those whose spouse or companion qualifies. The University of Southern Maine will offer two weeks of Elderhostel this summer. The courses being offered in this summer's Elderhostel are both challenging and exciting. The courses are noncredit and are taught by University faculty members. There are no exams, no grades, and no required homework. The courses in general do not presuppose prior knowledge of the subject. Lack of formal education is not a barrier. Whether you've finished grade school or earned a Ph.D., if you have an adventurous spirit, you're perfect for Elderhostel.

The registration fee for one week of Elderhostel at USM is $250.00. This includes tuition, room and board for the week (Sunday dinner through Saturday breakfast), and the various extracurricular activities available to hostellers. For local Elderhosteliers who do not wish to live on campus, the registration fee is $100.00. The program will be held on the Gorham campus. To register for the commuter program, please send your name, address, age, and Social Security number, along with the Elderhostel week you want to attend to: Elderhostel, Department of Conferences, University of Southern Maine, 96 Pframes Street, Portland, ME 04103.

Examples of past offerings include:

Elderhostel Week I
Abraham Lincoln and Hannibal Hamlin
Investing in Your Future
Republican Motherhood: Women in the American Revolution and the New Nation

Elderhostel Week II
Basic Personal Accounting/Recordkeeping for the Lay Person
Exploring Self and Relationships
Contemporary Soviet Culture

Please call the Department of Conferences, (207) 874-6506, for an outline of the Elderhostel courses.
Field Camps

Geology Field Camp
GEY 350
May 30-June 30
This basic course in geological field methods will introduce students to the tools and practical techniques used in collecting, compiling, and analyzing geological data, including area geology, topographic and aerial photo mapping, and structure and stratigraphic sections. Students will be required to submit maps and accompanying structure and stratigraphic sections and brief reports of assigned projects within the work areas. From the major field station at the University of Southern Maine (Gorham campus), students will be assigned projects along the coast of southern Maine. Included in this area are deformed Lower Paleozoic metamorphic rocks, and igneous rocks of the New Hampshire and White Mountains plutonic series. During the last week of the course, students will travel to the University of Maine at Machias campus to study the Lower Paleozoic volcanic and fossiliferous sedimentary rocks of eastern Maine. For more information contact: Stephen Pollock, Department of Geosciences, USM, 37 College Ave., Gorham, ME 04038 (207)780-5350 or the Summer Session office at 780-4076.

Sports Psychology Institute

June 22-24
This is a two-and-a-half day institute that will examine a number of current issues in sports psychology. Topics include: 1) designing and implementing interventions with team athletes; 2) an analysis of psychological momentum in sports; 3) athletic staleness and burnout: diagnosis, prevention and treatment; 4) the use of biofeedback in sport psychology; 5) a coach's view of sport psychology; and 6) additional topics. Presenters will be asked to address these issues from the perspective of athlete, coach, sports professional and parent. For more information or to register, contact the Summer Session office at 780-4076.

Athletic Training Institute

August 3-5
This three day institute will discuss injury recognition and evaluation for coaches, athletes, fitness providers, physical educators and recreators. The course will focus on injury management and treatment including the use of therapeutic modalities, exercise rehabilitation, emergency procedures and the effects of nutrition and drugs on exercise performance. Each participant will develop practical skills relating to the proper use of tape, wrapping and protective equipment. For information and to register, contact Summer Session at 780-4076.

Archaeology Field Camp
GYA 300
July 10-August 18
The summer field school is designed to combine training in research methods of archaeology and geography. Students will receive intensive training in methods of site survey excavation and materials analysis. Several weeks will be spent at selected areas of coastal Maine involved in survey and excavation of sites, mapping sites and landscape features, and investigating potential food resources in site areas. This will be followed by some laboratory analysis of recovered materials. This course may be repeated up to twice with the permission of the instructor. For more information contact: Nathan Hamilton, Geography and Anthropology, USM 37 College Ave., Gorham, ME 04038, (207)780-5320 or the Summer Session office at 780-4076.
Northern New England Undergraduate Communication Colloquium

July 12-15
At this three day colloquium, selected student papers will be presented and discussed in a supportive environment where they will also be critiqued, improved upon and published in a Proceedings of the Colloquium. Students gain both preprofessional conference experience and college credit (if their paper is chosen to be presented). For information, contact Summer Session at 780-4076.

Issues in Nursing: Designs for Effective Leadership

June 26-30
This two-day institute will examine and analyze contemporary health and fitness problems and present practical information relevant to the design and conduct of wellness and fitness programs for the elderly and the frail senior adult. Topics will include: 1) biomechanics of aging; 2) motivation and the elderly; 3) depression and aging; 4) arthritis and the older adult; 5) drugs and the elderly; 6) exercise for the mature adult; 7) dance, exercise and creative activities for the frail elderly; and 8) practical health fitness test and measurements. Presenters will address these issues from the perspective of activity directors, hospital personnel, senior citizens, health and physical educators and other health-related professionals. Participants may register for REC 279, Health and Fitness for Older Adults (3 credits).

Health and Fitness for Older Adults II Institute

June 24-27
This two-day institute will examine and analyze contemporary health and fitness problems and present practical information relevant to the design and conduct of wellness and fitness programs for the elderly and the frail senior adult. Topics will include: 1) biomechanics of aging; 2) motivation and the elderly; 3) depression and aging; 4) arthritis and the older adult; 5) drugs and the elderly; 6) exercise for the mature adult; 7) dance, exercise and creative activities for the frail elderly; and 8) practical health fitness test and measurements. Presenters will address these issues from the perspective of activity directors, hospital personnel, senior citizens, health and physical educators and other health-related professionals. Participants may register for REC 279, Health and Fitness for Older Adults (3 credits).

A Maine Sailing Adventure

A Maine Sailing Adventure is an intensive, four-day experience in which participants will learn boating safety, sail handling, and navigation on board a classic sailing vessel in beautiful Casco Bay. Participants will live aboard the vessel, learning all the basics of cruising seamanship and detailed chartwork in addition to receiving complete training in dead reckoning, piloting, and electronic navigation. An advanced section covering celestial navigation is also available.

A Maine Sailing Adventure will be taught by Coast Guard-licensed captains Tom Power and Larry Wheeler, who will use their own vessels for the course. Power's vessel, the Nefertiti, is a 36-foot Clipper Ketch and Wheeler's is a 63-foot Ketch named Samana. Both Nefertiti and Samana are U.S. Coast Guard-documented vessels. Ten sections of "A Maine Sailing Adventure" will be offered this summer for credit. For more information, contact the Summer Session Office at 780-4076.

High School Programs

During the 1989 Summer Session, the University of Southern Maine will sponsor an institute for high school students in Computer Science. Although still in the planning stages at the time of publication of this catalog, this workshop is to be designed for students who will be entering their junior and/or senior years during the fall of 1989. Enrollment for this program will be limited. For more information about this program and the application process, contact the Summer Session office at 780-4076.

USM Computer Seminar

USM will be sponsoring a week-long computer seminar for high school students at the Gorham campus, July 16-22. Students will be housed in campus dormitories and will eat in the campus dining hall.

In this seminar, students will stretch their notions of what fast, powerful, personal computers are capable of doing. Students will design projects and solve problems that will test their skills as thinkers and as team players. Students will have ample opportunities to learn how to use Macintosh computers, a local area network, a laser printer, and sophisticated software. In addition to the Macintosh computer, the students will try a variety of hardware and software. They will get hands-on experience with the Apple II family of computers and IBM compatibles. Topics to be covered include: digital video, desktop publishing, word processing, database management, spreadsheets, and telecommunications to name a few.

Maximum student enrollment is set at 16, and early applications and recommendations are suggested. The fee of $260.00 includes course tuition, room and board. The University will also provide numerous evening activities, most of which will be free to students. For more information, contact the Summer Session office at 780-4076.
1989 Summer International Study

Academic study coupled with a program of travel create an unusual opportunity for students as well as a valuable life experience. During Summer 1989, USM is proud to offer several exciting travel study courses. For more information about any of the following programs, contact the Summer Session Office at 780-4076.

**English Heritage July 16-August 4**

This course is a three week summer course offered through King Alfred's College, Winchester, England. The course will identify a number of social and cultural events in English history which have played key roles in the making of a specifically English culture. It offers the opportunity to study these events separately and to consider their combined effect in terms of cultural influence and the evolution of social outlooks in England and America. The course objective is to establish the relevance of the past in our present day thinking, while simultaneously offering the student an adequate grounding in English history and culture. The course includes an intensive program of lectures, seminar discussions, video presentations, and excursions to historic centers such as Bath, Stratford on Avon, and London. Accommodations will be at King Alfred's College in the residence halls. Student successfully completing the course will receive 6 hours of USM transfer credit for HTY 499 or ENG 499.

Cost: $1250. Price includes tuition, room and board, special excursions and transport to/from Winchester. Students will be responsible for their own air fare. For more information, please contact the Summer Session Office at 780-4076.

**Criminology in Sweden May 15-May 31**

This course is centered around the study of Sweden's unique criminal justice system. Students will be provided with the opportunity to live, study and experience another culture while understanding crime, criminology and social control in another country. The course provides a sound foundation for further study in the area of comparative criminology. Scheduled for a two and one-half week tour, students will visit the court system, several prisons and the police department in Stockholm. Lectures will be provided by sociologists at the Criminology Institute, University of Stockholm, as well as lawyers, judges and political party leaders. Housing is arranged at a location close to the University of Stockholm at Stockholms Studentbostader. Jim Messerschmidt, Associate Professor of Sociology at USM, is the tour director. Professor Messerschmidt received his doctorate in sociology from the University of Stockholm. Students successfully completing the course will receive six academic credits for SWO399. Accommodations will be arranged locally.

Cost: $1990. Price includes tuition, housing, airfare, ground transportation to/from Boston—London—Scotland, and miscellaneous admission fees. For further information, please contact Dr. Vincent Faherty at 780-4120 or the Summer Session office at 780-4076.

**International Seminar: Educational Leadership EDU 501-51 June 30-July 15**

This institute will expose educators and students to educational practices in England and Ireland. The program offers tours of schools and school-related organizations with the matching of participants to role counterparts. The course may be taken for 3 graduate credits.

Cost: $2,200.00. For more information, contact Charles Smith, College of Education, (207) 780-5300.

**International Social Welfare Study Tour—Great Britain May 14-May 28**

This two week study tour will identify and explicate the relationship between the social welfare system in the United States and Great Britain in both historical and contemporary contexts. The United States shares many common traits with Great Britain within the context of social welfare (i.e. composite of laws, programs and societal institutions established to assist and develop its citizens) The course approach will be of a general education nature, with significant reliance on introductory text material, social agency visits and student observations. Its educational objective is to gain an appreciation for the influence of history and culture on how problems are identified and responded to in any nation’s societal context. The tour will be under the direction of Dr. Vincent E. Faherty, Chairperson, Department of Social Work, USM. Students successfully completing the course requirements will receive six academic credits for SWO399. Accommodations will be arranged locally.

Cost: $2,200.00. Price includes tuition, housing, airfare, ground transportation to/from Boston—London—Scotland, and miscellaneous admission fees. For further information, please contact Dr. Vincent Faherty at 780-4120 or the Summer Session office at 780-4076.
Programs for Health Professionals

The Department of Continuing Education for Nursing and Health Professions sponsors numerous activities for health professionals during the summer, as well as during the academic year. For more information, contact the Department at 874-6550.

Tentative Summer Program Listing
- Nursing Research Day
- NCLEX-RN Review
- Health Care in the Camp Setting

Lifeline

What is Lifeline All About?
The University of Southern Maine Lifeline Center for Fitness, Recreation and Rehabilitation provides leadership and services in physical fitness, rehabilitation, education, recreation and employee wellness. Activities are designed for faculty, staff, students and the general public. Many programs are offered for academic credit.

Application for programs should be made well in advance of start dates. Free brochures and information are available by calling 780-4170.

Aerobic Programs
Walk/Jog
10-week sessions, start Monday, July 10
Registration deadline: Friday, June 23
Multiple times/locations
Variable fees
Walk/Jog is a program designed for the sedentary person who is not in good physical condition. This aspect of Lifeline is essentially a routine of walking/jogging, calisthenics, stretching, and relaxation techniques. Exercise begins slowly and progresses each week.

Aquatics
10-week session starts Monday, July 10
Registration deadline: Friday, June 23
Multiple times/locations
Variable fees
Aquatics is a cardiovascular exercise program for those who prefer swimming. Non-swimmers may also participate, as many of the exercises can be performed in the shallow end of the pool.

Energy in Motion
10-week session starts Monday, July 10
Registration deadline: Friday, June 23
Multiple times
Variable fees
Energy in Motion is a comprehensive exercise program consisting of aerobic conditioning, muscular endurance and toning, postural flexibility and relaxation. Floor exercises done to contemporary music make up the aerobic portion of the classes. Various relaxation techniques are utilized at the end of each class.

Senior Lifeline
Registration ongoing
Monday, Wednesday, Friday
10:30-11:15 a.m.
Senior Lifeline is designed for persons over 60 years of age, including those who require a low level of exercise. Cardiovascular conditioning, determined by individual age-predicted heart rates, includes stationary bike riding, walking or a combination of walking and jogging. Emphasis is placed on flexibility and postural muscle strength, accomplished through slow stretches and muscular improvement of specific muscle groups. Senior Lifeline should be considered a maintenance exercise program where individuals progress at their own rate.
Rehabilitation Programs

Heartline
10-week session begins August 14
Multiple times
Variable fees
Heartline is a program of cardiac rehabilitation for post-coronary and high risk individuals. This is a physician-supervised class, utilizing walking, jogging, and swimming to recondition persons who need close supervision while exercising. All participants must be referred to Heartline by their personal physician. While Heartline provides medical supervision during the exercise session, it is not intended to replace the role of the primary physician. Throughout the program, periodic reports are sent to the primary physician and all significant events are promptly recorded. Heartline is intended to improve communications between the participant and personal physician. All necessary forms are provided by the Heartline office. All participants must enter the program at the start of a new session.

Love Your Back
6-week session begins July 25
Tuesdays 5:00-6:15 p.m.
Fee: $51.00
Love Your Back is a program consisting of progressive low-level exercise routines combined with periodic educational sessions. Emphasis is placed upon the improvements of postural and muscular strength and endurance, body flexibility and relaxation techniques. Along with the exercise sessions, specific time is devoted to topics relating to low back problems. Such items as body anatomy and physiology, causation factors, body mechanics and nutrition will be integrated into the program. Medical clearance is required for all participants regardless of age. Appropriate medical forms will be provided for your physician to sign.

Pulmonary Rehabilitation
10-week session begins June 6
Tuesdays and Thursdays, 12:45-1:30 p.m.
This is a comprehensive program of exercise, education, and proper medical management for patients with chronic obstructive pulmonary disease. This is accomplished by increasing awareness of the disease and its management, and through participation in a progressive cardiopulmonary exercise program, thereby enabling adaptation to improve lifestyles. Participants are enrolled in the program only after referral from their primary care physician.

Weight Training Programs

Bodyshop
6-month or yearly membership
Registration ongoing
Variable fees
Bodyshop helps people improve their posture and strength in a supervised program of weight training. A complete assortment of weight training equipment is available including Nautilus, Universal, and free weights. The program is a sensible approach to progressive resistance weight training for improving body tone, muscular strength, power, and endurance. Individually prescribed programs of exercise are designed to meet the particular goals and needs of each participant.

Youth Weight Training
8-week session begins July 10
This training/conditioning program is a supervised training program for boys and girls 14 to 17 years of age. Courses are offered throughout the year utilizing the Lifeline Bodyshop. The program is designed to teach proper conditioning values and techniques, increase muscular strength and endurance, increase flexibility, and increase cardiovascular conditioning.

Summer Recreation/Leisure Services

Gym Activities Program
6-month or yearly membership
Registration on-going
Fee: 6 months, $91.00; 1 year, $171.00
Membership in the Leisure Learn Program entitles you to make use of the University of Southern Maine Portland Campus multi-purpose gymnasium located on Falmouth Street. Lockers and towel service are provided. At your disposal are more than 15,000 square feet of Tartan surface for activity such as weight-lifting, racquetball, squash, handball, basketball, volleyball, badminton, tennis, dance, yoga, etc. The Leisure Learn weight room with a combination of Nautilus, Universal, and free weights is one of the most complete weight-training facilities in New England. The gym is available seven days a week, year-round, for your physical fitness and recreation needs.

Membership restricted to adults 18 years or older.

Aikido
Tuesdays and Thursdays, 6:30-7:30 p.m.
Saturdays, 3:00-4:00 a.m. and 4:15-5:15 p.m.
Martial art/self defense training.

Yoga
3 sections, beginner and intermediate
Beginners: 6:30-8:30 a.m. and 10:00-noon on Tuesdays
Intermediates: 6:30-8:30 p.m. on Wednesdays
An art designed to create harmony of mind, body, spirit.

Tai Chi Ch’uan
Tai Chi Fundamentals: Level I & Level II
TBA
Flexibility, strengthening and relaxation program.

Games by the Sea
June 4
1:00-4:00
A celebration of play and playfulness for adults and children.

Employee Wellness
Lifeline has designed a comprehensive wellness program that can be tailored to companies large and small. This specialized approach focuses on the areas of employee health promotion and disease prevention. Activities can be offered either at the workplace or at the Lifeline facility. Services may include:
• program planning
• lifestyle/fitness assessments
• smoking cessation
• physical fitness
• stress management
• recreational activities
• project management
Details and/or brochures may be obtained by calling Lifeline at 780-4170.
Stonecoast Writers’ Conference
July 30-August 11

The Stonecoast Writers’ Conference is for students, teachers, and others seriously interested in writing who seek to improve their written work in the areas of poetry, short stories, and novels. The staff consists of generous, inspiring, and personable professional writers with distinguished experience in teaching and a substantial record of written achievement.

Please note that application for admission must be sent to Stonecoast Writers’ Conference, English Department, University of Southern Maine, 96 Falmouth Street, Portland, Maine, 04103. Manuscript samples are required for admission. For further information, call 780-4291.

The Courses

Fiction Writing
ENG 202

This is a for those who have already, in a course such as Creative Writing or on their own, written several pieces of fiction and are ready for more advanced work. Emphasis will be supportive rather than critical, with instruction in writing well-developed short stories and on understanding the basic elements of fiction. Suggested preparation: ENG 201 Creative Writing. Apply through the English Department only. Cr. 3

Fiction Workshop
ENG 302

This is an advanced course in writing fiction. Discussion of student short stories and work-in-progress with emphasis on subject development, plot, style, and publication standards. Manuscript conferences with the instructors will be held. A manuscript sample (completed short story, approximately 10 to 20 pages) is required for admission. Apply through the English Department only. Cr. 3

Poetry Workshop
ENG 303

An advanced course in writing poetry, this class involves intensive class discussion of students’ poems, with follow-up conferences with the instructors. Class assignments will explore contemporary poetic techniques and perspectives. A manuscript sample (approximately 5 poems) is required for admission. Please apply through the English Department only. Cr. 3

Writing the Novel
ENG 304

This workshop, for writers whose fiction requires the scope of the novel, will examine ways of structuring complex material, with attention to the relation of parts to the whole. It will consider the problems—practical and creative—peculiar to sustaining a single creative effort over a long period of time. Students will present chapters and projected plans in an atmosphere of supportive discussion and criticism. A manuscript sample (30 pages and an outline from work-in-progress) is required for admission. Apply through the English Department only. Cr 3.

For additional information, contact Kenneth Rosen at 780-4291.

Summer Collegians

During Summer Session 1989, the University will offer an array of overnight and day programs for children and youth from infancy through age 18. The programs are designed to address all facets of the child: social, recreational, artistic, athletic, and educational.

Workshops

Children’s Art Workshop
Ages: 6-14
Dates: June 26-July 28
The Children’s Art Workshop offers students a chance to work in depth on a variety of art projects. During this intensive program students will be supervised instruction, learning about art processes, art materials and arts importance in our lives. Each day will also include time for students to work on projects of their own choosing. Students will have the opportunity to work as a whole group as well as in different age groups where appropriate. Eligibility includes students who have completed first grade up to students who have completed 8th grade.

Children’s Drama Workshop
Ages: 7-11
Dates: June 26-July 14
This two-week program offers a unique theatrical experience for children ages 7-11. Through a variety of structured games, the child will be encouraged to make an honest and exciting individual contribution to the group effort that theatre requires. Instruction and activities will include a focus on movement, including sensory awareness, improvisation, and mime, work with scripted material (with the child having input both as a playwright and actor) and an introduction to technical theatre. Field trips and a final presentation are planned.

Children’s Science Workshop I
Ages: 5-6
Dates: July 3-14
The study of aquatic life can be both challenging and fascinating. During this two-week workshop students will focus on varieties of plant and animal life. The goal of the session is to expose students to living organisms found in both pond and ocean water. Preliminary plans include a scavenger hunt at Kettle Cove, a trip to a bog, and a salt water marsh. Other trips include a visit to the Wolf Neck area in Freeport and the Maine Aquarium in Saco. Laboratory instruction is also on the agenda of this exciting two-week workshop.

Children’s Science Workshop II
Ages: 6-11
Dates: July 17-28
The study of human body and how maintaining it is the key to health is not only a fascinating topic, but one to which all students should be exposed. During this two-week workshop, students will learn about the functioning of the human body—of the heart, the brain, muscles, and joints—in a way that is instructive and fun.

Children’s Computer Workshop I
Ages: 7-11
Dates: July 3-July 14
This two-week workshop will provide students with the opportunity to learn some basic programming skills as well as how to use packaged software such as wordprocessing, games, and personal filing systems. The teaching focus will be upon the educational applications of computers.

Children’s Computer Workshop II
Ages: 7-11
Dates: July 17-July 28
This two-week workshop builds upon the Computer Workshop I and will deal with such topics as spreadsheets, more complex wordprocessing, and programming skills. As with the first workshop, the teaching focus of this seminar will be upon the educational applications of computers.
At press time, final plans were being completed on a Dramatic Movement Workshop for older children (10-14 years old). For information on this and other workshops, call Summer Session at 780-4076.

Child Care Services
Day Program
Infant, Toddler and Preschool
Ages: 6 weeks to 6 years
Dates: May 15-September 1
Hours: 7:30 a.m.-5:30 p.m.
Locations: Child Care Centers
Portland Campus, Intown Center-Portland, and Gorham campus.
Full time, part time and hourly rates available.

Evening Program
Ages: 3 years to 12 years
Dates: May 15-September 1
Hours: 3:00 p.m.-Midnight
Hourly rates
Location: Child Care Center, Portland Campus
Featuring child-centered programs of fun and discovery through hands-on experiences and recreational activities.

Call USM Child Care Services at 780-4125 for more information.

Camps
USM Day Camp
Ages: 6-14 years
Dates: June 26-September 1
Hours: 7:30 a.m.-5:30 p.m.
Location: Gorham campus and beyond
Transportation from the Portland campus to the Gorham campus and return is available.

Full day, broad-based program providing hiking, crafts, swimming, nature study, sports and the arts, plus experiential learning opportunities for stimulating social and academic skills. Special programs for the 11-14 year old group, plus a Counselor in Training Program for 14 year olds.

Southern Maine Instrumental Music Academy
July 8-19
The Southern Maine Instrumental Music Academy is a nine-day program designed to provide high school musicians with opportunities for musical growth and development through intensive group and individualized instruction provided by a highly qualified staff of professional musicians. The staff includes Peter Martin, Scott Reeves and John Bowdoin, all professors at the University of Southern Maine. For more information, contact the Department of Conferences at 874-6506.

SWISH Basketball Camp
Girls' Camp: July 30-August 4
Sr. Boys' Camp: June 25-30
Jr. Boys' Camp: August 6-11

The SWISH Basketball Camp provides top-quality instruction in all phases of basketball to boys and girls entering grades 7-12. Each camper will receive individual, team, and group instruction featuring some of the finest high school and college coaches in New England. Directed by Bob Brown, head basketball coach at the University of Southern Maine, the camp features development of team concepts, discussion on the care and prevention of injuries, training concepts and programs, modern facilities, divisions of competition, and a positive approach to the world of basketball.

STIX Field Hockey Camp
Ages: Girls entering grades 9 through 12
Dates: July 9-14
The objective of STIX Camp is to provide the highest quality instruction in all phases of field hockey to girls entering grades 9 through 12. The camp is directed by Paula Hodgdon, head field hockey coach at USM. She is supported by a staff of outstanding high school and college coaches, as well as members of the U.S. Olympic Field Hockey Team. Emphasis is placed on individual and team instruction, fair play, training concepts, and a positive approach to competition and world of field hockey.

USM Summer Soccer School
Girls Week (ages 10-17):
July 23-28
Boys' Week (ages 10-17):
July 16-21
In its 15th year, the USM Summer Soccer School has developed into one of the best soccer programs in New England. Directed by Gary Fifield, USM men's soccer coach, the camp provides progressive instruction in basic soccer techniques and tactics toward the development of young soccer players. These skills are developed through team, special group, game situations, and individualized instruction by an outstanding coaching staff comprised of both college and high school coaches from throughout the country.

USM "TEN-O" Gymnastics Camp
Ages: Boys and Girls, (ages 9-18)
Dates: July 2-7
The goal of the program is to shape a well-rounded gymnast by emphasizing a balance between practicing fundamentals and incorporating new skills. The TEN-O Camp is designed to meet the needs of each gymnast whether they are preparing for serious gymnastic competition or for simple gymnastic enjoyment. No experience is required, merely an interest and willingness to learn, participate, and work hard. All campers will be assigned to teams with others at the same age and ability level.

For more information or to register...
Day Camps, contact USM Child Care Services, 780-4125.
Children's Art Workshop, Drama Workshop, Computer Workshops, and Science Workshops, contact Summer Session, 780-4076.
All Other Programs, contact Department of Conferences, 874-6506.
Other USM Programs

Graduate Programs

USM Public Policy and Management Program

The Public Policy and Management Program prepares leaders in public affairs with the knowledge and skills to analyze complex policy issues, make difficult policy choices, implement them in an effective manner, and assess results. The program seeks to graduate leaders who understand the social, economic, political, and organizational contexts in which policy is developed and implemented; who comprehend the use of various quantitative and analytical methods; who can articulate ideas clearly, both orally and in writing; and who are competent to manage effectively.

The master of arts degree program in public policy and management requires 45 credit hours. The core courses include both policy analysis and public management approached from an interdisciplinary perspective. A substantive concentration may be achieved through elective courses and field experiences. It is through the concentration and associated field work that students learn to apply the disciplinary knowledge and skills attained in the core courses to the substance of a particular policy field.

For more information contact: Office of the director; Public Policy and Management Program; University of Southern Maine; 96 Falmouth Street, Portland, Me. 04103, (207)780-4380.

School of Law

The School of Law offers a summer program of courses. Admission to the Summer Session is open to law students who have completed their first year and are in good academic standing at an approved law school. Graduates of approved law schools are also invited to apply. Non-law graduate students and some special students may be admitted with the approval of the Director of the Summer Session of the Law School.

For more information about how to enroll, contact: Office of the Registrar, University of Maine School of Law, 246 Deering Ave., Portland, ME 04102, (207)780-4346.

Honors Program

The Honors Program provides an enriched education to a selected group of students who are outstanding in their ability, curiosity, creativity, and motivation. Approximately 30 students are admitted to the Honors Program each year. Students entering the fall semester of their freshman or sophomore year, whether full-time or part-time and regardless of intended major, are eligible to apply. Students selected for the program work closely with faculty in a series of small seminar-type courses specially designed for Honors Program students. These courses integrate knowledge from various disciplines and examine more fully than is possible in the general curriculum the ways of knowing, Western culture and the contemporary situation. Later, Honors students take an advanced seminar and do a major independent research project under the direction of a faculty member in their department. All Honors Program work stresses independent learning, original thinking and the development of skills in research, writing and oral expression.

Honors Program courses provide a core of general knowledge and a sensitivity to important contemporary issues. Honors students may pursue their particular interests in depth in upper-level courses. Honors Program work provides a superb background for further study and will assist students in gaining admission to graduate or professional school. Honors work is also excellent preparation for any career requiring demonstrated achievement and discipline.

For more information about the Honors Program, contact: University Honors Program, University of Southern Maine, 96 Falmouth Street, Portland, ME 04103, (207) 780-4330.

Certificate Programs

Certificate Program for Paralegals

This program provides a sequence of courses leading to a certificate in the broad range of legal services known as general practice. The program includes practical orientation to legal procedure and the court system, an introduction to legal research, writing, and computers, and a procedural overview of several areas of law, including litigation, business organizations, bankruptcy, real estate, probate, and domestic relations. The Certificate Program is designed primarily for part-time students. Courses are offered either twice a week in the evenings or in a one-day seminar format. Session begins in January. For more information, contact the Community Programs office in Portland, 874-6500.

Certificate Program for PC Coordinators

Rapid increase in the use of personal computers in business, education, and government agencies has created a new demand: the need for an in-house personal computer resource person. The Certificate Program for Personal Computer Coordinators is designed to prepare and support individuals in this new role. The role of the PC coordinator requires mastery of technical skills, ongoing review of new technology, and highly developed consulting skills, including problem solving, communication, and training.

The purpose of the PC coordinator’s certificate program is to develop both technical and professional skills simultaneously, emphasizing actual business situations and context. Also emphasized will be the role of the personal computer in office productivity and an understanding of management information systems.

The program includes classes in word processing, disk operating systems, spreadsheets, databases, programming concepts, communications, and hardware evaluation. Professional development seminars focus on four major areas: communication skills, consulting skills, training, and systems analysis. Each student will be required to complete a project under the supervision of an advisor.

Applicants for the program must meet admission requirements. Applications are accepted throughout the year and students may begin the program at any time. For more information, please call the Community Programs office at 874-6500.
Center for Real Estate Education

The Center for Real Estate Education offers the courses necessary to obtain a real estate license in the State of Maine. The courses are designed for Sales Agents, Associate Brokers and Brokers. The Center also offers courses in other real estate related topics of interest to the general public and for continuing education credits such as courses in investments, property management, financing, construction, and more.

The Center for Real Estate Education offers both the Sales Agent course and the Role of the Designated Broker course on a continuing basis throughout the year for licensing purposes. For information about these courses, call the Center for Real Estate Education at (207) 874-6520.

Correspondence Courses

Agency Relationships in Real Estate (6 cont.ed.hrs., $60)
Condos and the Maine Condominium Act (9 cont.ed.hrs., $75)
How Securities Laws Affect Real Estate Offerings (6 cont.ed.hrs., $60)
How to Market Space in an Office Building (6 cont.ed.hrs., $60)
Investing in Raw Land (6 cont.ed.hrs., $60)
Maine Planning and Land Use Laws (3 cont.ed.hrs., $40)
Maine Real Estate Law and Rules (3 cont.ed.hrs., $40)
Managing Residential Growth (3 cont.ed.hrs., $40)
Negotiating the Commercial Lease (6 cont.ed.hrs., $60)
Residential Construction (6 cont.ed.hrs., $60)
Residential Property Management (6 cont.ed.hrs., $60)
Real Estate After Tax Reform (6 cont.ed.hrs., $60)

Real Estate Finance (6 cont.ed.hrs., $60)
Real Estate Financial Management (3 cont.ed.hrs., $40)
Real Estate Advertising (3 cont.ed.hrs., $40)
Strategic Planning for the Real Estate Manager (3 cont.ed.hrs., $40)

Videos

Anatomy of a Contract (3 cont.ed.hrs., $45)
New License Laws in Review: Rules and Regulations (3 cont.ed.hrs., $45)
Broker Liability: Managing and Reducing Risks (3 cont.ed.hrs., $45)

The Center for Real Estate Education is part of the Institute for Real Estate Research and Education at the University of Southern Maine. For more information, call the Center for Real Estate Education at (207) 874-6520 or write: Center for Real Estate Education, University of Southern Maine, 68 High Street, Portland, ME 04101.
## Course Schedule

### Session Dates

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### Schedule Legend
Each course listing contains the following information (refer to headline at top of each page): campus or off-campus location; course number course section; course type; course title; college; credit hours; time; days; building**; room; instructor; course size; session course is offered.

* P=Portland campus; G=Gorham campus; LA=Lewiston-Auburn College; SB=Saco-Biddeford Center; S=Sanford Center; BB=Bath-Brunswick Center; X=other off-campus location.

**The building abbreviations are PAYS=Payson Smith Hall; BAIL=Bailey Hall; LB=Luther Bonney Hall; RA=Robe/Andrews Basement; ACAD=Academy Building; SCI=Science Building; GYMP=Portland Gymnasium; IEDC=Industrial Education Center; CORT=Corthell Hall; GYMG=Hill Gymnasium; RUSS=Russell Hall; LAW=Law School Building.

### TOWN COURSE SEC TYPE COURSE TITLE COL HRS TIME DAYS BLDG ROOM INSTRUCTOR NO.

#### COLLEGE OF ARTS AND SCIENCES

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#### ARTS AND SCIENCES

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#### CHEMISTRY

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**Communication**

| P COM 102J 01 LEC    | INTRO TO COMMUNICATION                 | CAS 3.0 | 8:15-11:30 TTH |           |           |            |            |             |
| P COM 102J 02 LEC    | INTRO TO COMMUNICATION                 | CAS 3.0 | 4:00-6:40 TTH  |           |           |            |            |             |
| P COM 102J 03 LEC    | INTRO TO COMMUNICATION                 | CAS 3.0 | 7:00-9:40E MW  |           |           |            |            |             |
| P COM 272 01 LEC     | PERSUASION                             | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |
| P COM 299 01 LEC     | INTRO TO FILM                          | CAS 3.0 | 4:00-6:40 MW   |           |           |            |            |             |
| P COM 299 02 LEC     | FAMILY COMMUNICATION                   | CAS 3.0 | 4:00-6:40 MW   |           |           |            |            |             |
| P COM 299 03 LEC     | FAMILY COMMUNICATION                   | CAS 3.0 | 7:00-9:40E TTH |           |           |            |            |             |
| G COM 340 01 LEC     | SMALL GROUP COMMUNICATION              | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |
| G COM 394 01 LEC     | THEORY OF FILM                         | CAS 3.0 | 5:30-8:10E TTH |           |           |            |            |             |
| G COM 399 01 LEC     | NE UNDERGRAD COM COLLOQUIZ             | CAS 3.0 | 8:30-4:30 TFS  |           |           |            |            |             |

**Core Curriculum**

| P COR 112 30 LEC     | CONFLICT IN NUCLEAR AGE                | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |
| G COR 112 31 LEC     | CONFLICT IN NUCLEAR AGE                | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |

**Criminology**

| P CRM 215 01 LEC     | CRIMINOLOGY                            | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |
| X CRM 399 01 LEC     | CRIMINOLOGY IN SWEDEN                  | CAS 6.0 |               |           |           |            |            |             |

**English**

| P ENG 100C 01 LEC    | COLLEGE WRITING                        | CAS 3.0 | 4:00-6:40 MW   |           |           |            |            |             |
| P ENG 100C 02 LEC    | COLLEGE WRITING                        | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |
| P ENG 100C 03 LEC    | COLLEGE WRITING                        | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |
| P ENG 100C 04 LEC    | COLLEGE WRITING                        | CAS 3.0 | 4:00-6:40 TTH  |           |           |            |            |             |
| P ENG 100C 06 LEC    | COLLEGE WRITING                        | CAS 3.0 | 12:30-3:45 TTH |           |           |            |            |             |
| P ENG 120H 01 LEC    | INTRO TO LITERATURE                    | CAS 3.0 | 7:00-9:40E MW  |           |           |            |            |             |
| P ENG 120H 02 LEC    | INTRO TO LITERATURE                    | CAS 3.0 | 8:15-11:30 MTW |           |           |            |            |             |
| P ENG 120H 03 LEC    | INTRO TO LITERATURE                    | CAS 3.0 | 12:30-3:45 TTH |           |           |            |            |             |
| P ENG 120H 04 LEC    | INTRO TO LITERATURE                    | CAS 3.0 | 7:00-9:40E TTH |           |           |            |            |             |
| P ENG 120H 05 LEC    | INTRO TO LITERATURE                    | CAS 3.0 | 8:15-11:30 TTH |           |           |            |            |             |
| P ENG 120H 06 LEC    | INTRO TO LITERATURE                    | CAS 3.0 | 12:30-3:45 TWH |           |           |            |            |             |
| P ENG 201F 01 LEC    | CREATIVE WRITING                       | CAS 3.0 | 7:00-9:40E MW  |           |           |            |            |             |
| P ENG 263H 01 LEC    | FICTION-THE GENRE                      | CAS 3.0 | 12:30-3:45 MTW |           |           |            |            |             |
| P ENG 299 01 LEC     | WRITING FOR PUBLICATION                | CAS 3.0 | 12:30-3:45 TTH |           |           |            |            |             |
| G ENG 300F 01 LEC    | FICTION WRITING                        | CAS 3.0 | 9:30-12:00 MTWTHF |           |           |            |            |             |

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**This is a travel-study course. Contact Summer Session at 780-4076. This course meets July 10-August 18.**

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<td>MTW</td>
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<td>TTH</td>
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NEW ENGLAND STUDIES

ALL STUDENTS WHO HAVE NOT BEEN ACCEPTED INTO THE NEW ENGLAND STUDIES PROGRAM MUST HAVE WRITTEN PERMISSION FROM THE DIRECTOR BEFORE TAKING ANY NEW ENGLAND STUDIES COURSE.

|                      | P NES 625 01 LEC CULT, THOUGHT & N.E. LIT | CAS | 3.0 | 7:00- 9:40 | E | LUTH 208 | CONFORTI J | 1 |
|                      | P NES 650 01 LEC TOPICS:WORK CLASS CULTURE | CAS | 3.0 | 4:00- 6:40 | E | LUTH 208 | CAMERON A | 1 |
|                      | P NES 655 01 LEC N.E.:HISTORIC ARCHEOL | CAS | 3.0 | 7:00- 9:40 | MW | LUTH 208 | HAMILTON N | 1 |
|                      | P NES 690 01 LEC PROJECT | CAS | 3.0 | | A | A | TBA | 1 |

COLLEGE OF EDUCATION

|                      | G EDU 200 01 LEC STUDIES-EDUC FOUNDATIONS | COE | 3.0 | 8:15-11:30 | MTW | BAIL 113 | COLOCCI N | 2 |
|                      | G EDU 200 02 LEC STUDIES-EDUC FOUNDATIONS | COE | 3.0 | 12:30- 3:45 | MTW | BAIL 403 | MORRILL D | 2 |
|                      | G EDU 210 01 LEC THNY FOUND.EDUCATION | COE | 3.0 | 12:30- 3:45 | MTW | BAIL 110 | NEUBERGER H | 6 |
|                      | G EDU 305 01 LEC TEACH ELEM SCH MATH | COE | 3.0 | 4:00- 6:40 | MW | BAIL 95 | AUSTIN N | 1 |
|                      | G EDU 305 02 LEC TEACH ELEM SCH MATH | COE | 3.0 | 4:00- 6:40 | E | BAIL 107 | AUSTIN N | 1 |
|                      | G EDU 308 01 LEC SCIENCE FOR CHILDREN | COE | 3.0 | 8:15-11:30 | MTW | BAIL 110 | NEUBERGER H | 6 |
|                      | G EDU 312 01 LEC TEACH LANGUAGE ARTS | COE | 3.0 | 8:15-11:30 | MTW | BAIL 404 | COSTELLO M | 2 |
|                      | G EDU 321 01 LEC DEVELOPMENTAL READING II | COE | 3.0 | 8:15-11:30 | MW | BAIL 321 | LUNT W | 5 |
|                      | G EDU 322 01 LEC INDEPENDENCE STUDY | COE | 0-15.0 | 9:00- 4:00 | A | A | COLOCCI N | 7 |
|                      | G EDU 335 01 LEC EXCEPT STUDENT IN CLASSRM | COE | 3.0 | 4:00- 7:15 | MW | BAIL 205 | KIMBALL W | 2 |
|                      | G HRD 333 01 LEC HUMAN GROWTH&DEVELOPMENT | COE | 3.0 | 4:00- 6:40 | MW | BAIL 321 | MORRILL D | 1 |
|                      | G HRD 333 02 LEC HUMAN GROWTH&DEVELOPMENT | COE | 3.0 | 4:00- 6:40 | E | BAIL 502 | COOK S | 4 |
|                      | G HRD 333 03 LEC HUMAN GROWTH&DEVELOPMENT | COE | 3.0 | 4:00- 6:40 | E | BAIL 302 | COOK S | 4 |
|                      | G PHE 102 01 LEC INDEPENDENT ACTIVITIES | COE | 1-2.0 | | A | A | THORDDON P | 7 |
|                      | G PHE 203 01 LEC ATHLETIC TRAINING | COE | 3.0 | 9:00- 4:00 | A | A | SULLIVAN J | 7 |

This is a FEE Course. Contact J. Sullivan at 780-4175. This course meets August 3-August 5.

|                      | G PHE 242 51 LEC EXP EDUC OUTWARD BOUND | COE | 3.0 | | A | A | BOUCHARD J | 7 |

This course is offered through Hurricane Island Out/Bound. This is a FEE Course.

|                      | G PHE 304 01 LEC HEALTH & PE ELEM TEACHER | COE | 3.0 | 8:15-11:30 | MTW | GYMG 202 | ZIMMERMAN J | 3 |
|                      | G PHE 343 51 LEC EXP EDUC OUTWARD BOUND | COE | 3.0 | | A | A | BOUCHARD J | 7 |

This course is offered through Hurricane Island Out/Bound. This is a FEE Course.

GRADUATE EDUCATION

|                      | G EDU 600 01 LEC RESEARCH METHODS&TECHNIQ | COE | 3.0 | 4:00- 6:40 | TH | BAIL 208 | TBA | 1 |
|                      | G EDU 600 02 LEC RESEARCH METHODS&TECHNIQ | COE | 3.0 | 4:00- 6:40 | MW | BAIL 208 | TBA | 1 |
|                      | G EDU 600 03 LEC RESEARCH METHODS&TECHNIQ | COE | 3.0 | 8:15-11:30 | MW | BAIL 403 | TBA | 5 |
|                      | G EDU 600 04 LEC RESEARCH METHODS&TECHNIQ | COE | 3.0 | 12:30- 3:45 | MW | BAIL 321 | TBA | 5 |
|                      | G EDU 699 01 LEC INDEPENDENT STUDY | COE | 1- 6.0 | | A | A | SMITH C | 7 |

HUMAN RESOURCE DEPARTMENT

|                      | G HRD 605 01 LEC LIFE SPAN DEVELOPMENT II | COE | 3.0 | 4:00- 6:40 | MW | BAIL 403 | ATKINSON R | 1 |
|                      | G HRD 607 01 LEC INTRO TO SCH GUID SERVICE | COE | 3.0 | 7:00- 9:40 | TTH | BAIL 404 | SOUTHWORTH R | 1 |
|                      | G HRD 608 01 LEC CAREER DEVELOPMENT | COE | 3.0 | 7:00- 9:40 | MW | BAIL 403 | VANZANDT Z | 1 |
|                      | G HRD 620 01 LEC FUND OF COUNS SKILLS | COE | 3.0 | 4:00- 6:40 | TTH | BAIL 404 | SOUTHWORTH R | 1 |
|                      | G HRD 621 01 LEC FUND OF COUNS THEORIES | COE | 3.0 | 4:00- 6:40 | MW | BAIL 207 | PAINTER L | 1 |
|                      | G HRD 622 01 LEC COUNSELING YOUNG CHILDREN | COE | 3.0 | 8:15-11:30 | MW | BAIL 207 | TBA | 5 |
|                      | G HRD 626 01 LEC GROUP PROCESS/PROCEDURE | COE | 3.0 | 7:00- 9:40 | TTH | BAIL 322 | STEVENS R | 1 |
|                      | G HRD 626 02 LEC GROUP PROCESS/PROCEDURE | COE | 3.0 | 12:30- 3:45 | MW | BAIL 405 | PAINTER L | 7 |

This course meets July 10-July 27.

|                      | G HRD 627 01 LEC GROUP COUNSELING | COE | 3.0 | 8:00- 4:00 | MW | BAIL 405 | CARROLL M | 7 |

This course meets June 19-June 23.

|                      | G HRD 662 01 LEC THEORIES OF HUMAN DEVELOP | COE | 2.0 | 4:00- 6:45 | MW | BAIL 405 | DAVIS C | 7 |
|                      | G HRD 663 01 LEC CHILD & ADOLESCENT DEVEL | COE | 2.0 | 4:00- 6:45 | MW | BAIL 405 | DAVIS C | 7 |

This course meets May 15,17,22,24,31,June 7,14,21,and 28.

|                      | G HRD 665 01 LEC PSY MEASURE & EVALUATION | COE | 3.0 | 4:00- 6:40 | MW | BAIL 404 | SUTTON J | 1 |
|                      | G HRD 666 01 LEC INDIVIDUAL ASSESSMENT | COE | 3.0 | 8:15-11:30 | TTH | BAIL 204 | VESS S | 5 |
|                      | G HRD 666 01 LEC INTERNSHIP IN COUNSEL EDU | COE | 1-6.0 | | A | BAIL 410 | SUTTON J | 7 |

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### Professional Development Center

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### Educational Administration

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### Exceptionality

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**INSTRUCTIONAL LEADERSHIP**

| G EDU 513 01 LEC | ADOLESCENT LITERATURE | COE | 3.0 | 7:00-9:40E MW | BAIL 319 | HUTTON N | 1           |
| G EDU 603 01 LEC | ANALYSIS OF TEACHING | COE | 3.0 | 1:00-4:30 MTW | BAIL 207 | KULAWIEC E | 7           |

**EDUCATION**

| G EDU 513 01 LEC | DEVELOP COMPOSITION PROC | COE | 3.0 | 8:15-11:30 MW | BAIL 104 | WOOD M | 7           |
| G EDU 514 01 LEC | TEACH READ CONTENT AREA | COE | 3.0 | 8:15-11:30 TTH | BAIL 404 | MACARTHRUR S | 7          |
| G EDU 529 01 LEC | READING CLINIC | COE | 6.0 | 8:30-12:00 | MTWTHF | BAIL 106 | O'DONNELL M | 7           |

**LEWISTON-AUBURN COLLEGE**

| LA EDU 360 61 LEC | COMPUTERS IN EDUCATION | LAC | 3.0 | 4:00-6:30 TTH | A TBA | 1           |
| LA HRD 333J 61 LEC | HUMAN GROWTH&DEVELOPMENT | LAC | 3.0 | 7:00-9:40E TTH | A TBA | 1           |
| LA MOS 300 61 LEC | INTRO TO ORGS & THEIR MGT | LAC | 3.0 | 7:00-9:40E MW | A TBA | 1           |
| LA MOS 399 61 LEC | MIS & ORGANIZATIONS | LAC | 3.0 | 7:00-9:40E TTH | A TBA | 1           |
| LA MOS 400 61 LEC | COMP & PAY EQUITY INST | LAC | 3.0 | 9:00-5:00 WTH | A TBA | 1           |
| LA MOS 400 62 LEC | ORGANIZATIONAL ETHICS SEM | LAC | 3.0 | 9:00-5:00 THF | A DRUKER M | 7           |
| LA MOS 409 61 LEC | ORGANIZATION AND MARKETING | LAC | 3.0 | 9:00-5:00 WTH | A TBA | 1           |
| LA MOS 409 62 LEC | ORGANIZATION AND MARKETING SEM | LAC | 3.0 | 9:00-5:00 THF | A DRUKER M | 7           |

**DEPARTMENT OF PUBLIC POLICY AND MANAGEMENT**

| P PPM 603 01 LEC | ADVANCED RESEARCH METHODS GRP | SAS | 3.0 | 4:00-7:30 TTH | A TBA | 1           |
| P PPM 631 01 LEC | ORGANIZATIONAL DYNAMICS GRP | SAS | 3.0 | 4:00-7:30 TTH | A TBA | 1           |

**APPLIED IMMUNOLOGY**

| P AIM 630 01 LEC | MEDICAL IMMUNOLOGY | SAS | 3.0 | 7:00-8:15 MMF | SCI 305 | ROTE N | 7           |
| X AIM 631 01 LAB | MEDICAL IMMUNOLOGY LAB | SAS | 3.0 | A TBA | ROSE R | 7           |
| X AIM 690 01 LEC | JOURNAL CLUB | SAS | 1.0 | 4:00-4:50 TH | A TBA | 7           |

**SCHOOL OF APPLIED SCIENCE**

| P COS 160 01 LEC | STRUCT PROGRAMMING-PASCAL | SAS | 3.0 | 4:00-6:40 MW | PAYS 207 | WELTY C | 1           |
| P COS 300 01 LEC | COOP EDU-COMPUTER SCIENCE | SAS | 3.0 | A TBA | GABROVSKY P | 7           |
| P COS 400 01 LEC | COOP EDU-COMPUTER SCIENCE | SAS | 3.0 | A TBA | WELTY C | 7           |
| P COS 698 01 LEC | MASTER'S PROJECT | SAS | 1-6.0 | A TBA | STAFF | 7           |

**ENGINEERING**

| P ELE 172 L1 LAB | DIGITAL LOGIC LAB | SAS | 0.0 | 7:00-9:00E TH | SCI 152 | TBA | 1           |
| P ELE 172 01 LEC | DIGITAL LOGIC | SAS | 4.0 | 4:00-6:40 TTH | SCI 262 | TBA | 1           |

**TECHNOLOGY**

<p>| G IEP 699 01 LEC | INDEPENDENT STUDY | SAS | 1-15.0 | A TBA | BERRY A | 7           |
| G IEV 460 01 LEC | INDEPENDENT STUDY | SAS | 1-15.0 | A TBA | BERRY A | 7           |
| G IEV1310 51 LEC | INSTRUCT VOC EDU | SAS | 3.0 | 8:30-4:00 MWTHF | IEDC | TBA | 7           |
| G ITP 350 01 LEC | CONFERENCE LEADING | SAS | 3.0 | 7:00-9:40E MW | IEDC 200 | CARTER R | 1           |</p>
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<td>7:00 - 9:40</td>
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<td>ADVANCED EMERG CARE</td>
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<td>GYM</td>
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<td>BASIC SAILING/SEAMANSHIP</td>
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This is a fee course. Contact summer session at 780-4076. This course meets June 26-June 30.
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**DIVISION OF OFF-CAMPUS INSTRUCTION AND ACADEMIC SUPPORT**

**BATH/BRUNSWICK CENTER**

| BB ABU 112 41 LEC | PRINC FINANCIAL ACCT II | DBS 3.0 | 7:00-9:40E | TTH | A | A | TBA | 7 |
| BB ABU 240 41 LEC | PRINCIPLES OF MANAGEMENT | DBS 3.0 | 7:00-9:40E | TTH | A | LEACH T | 7 |
| BB HRD 333J 41 LEC | HUMAN GROWTH & DEVELOPMENT | DBS 3.0 | 7:00-9:40E | MM | A | A | TBA | 4 |
| BB ITP 340 41 LEC | QUAL CONT FUND | DBS 3.0 | 4:30-6:45 | TTH | A | A | O’CONNOR T | 7 |

**OFF-CAMPUS INSTRUCTION**

| P ENG 009A 01 LEC | DEVELOPMENTAL ENGLISH | DBS 3.0 | 7:00-9:40E | TTH | PAYS 206 | SOULIERE Y | 4 |
| P ENG 019 01 LEC | WRITTEN BUSINESS COMM | DBS 3.0 | 7:00-9:40E | MM | PAYS 300 | LEMELIN R | 1 |
| P FRS 100 01 LEC | FRESHMAN SEMINAR | DBS 3.0 | 7:00-9:40E | MM | LUTH 509 | TBA | 4 |
| P MAT 009 01 LEC | DEVELOPMENTAL MATHEMATICS | DBS 3.0 | 7:00-8:15E | MTH | PAYS 208 | TBA | 4 |

**SACO/BIDDEFORD CENTER**

| SB ABU 111 91 LEC | PRINC OF FINANCIAL ACCT I | DBS 3.0 | 7:00-9:40E | MM | A | A | TBA | 4 |
| SB COR 112 33 LEC | CONFLICT IN NUCLEAR AGE | DBS 3.0 | 8:15-11:30 | MTH | A | A | ERICKSON/SHILTON | 2 |
| THIS IS AN ITV COURSE RECEIVE SITE. |
| SB EDU 336 91 LEC | CHILDREN'S LITERATURE | DBS 3.0 | 12:30-3:45 | TTH | A | A | SOULE M | 6 |
| SB ENG 201F 91 LEC | CREATIVE WRITING | DBS 3.0 | 4:00-6:40 | MM | A | A | STEPHENS H | 4 |
| SB HRD 333J 91 LEC | HUMAN GROWTH & DEVELOPMENT | DBS 3.0 | 7:00-9:40E | MM | A | A | BIRTOLO P | 4 |
| SB HTY 360 91 LEC | HISTORY OF MAINE | DBS 3.0 | 8:15-11:30 | MTH | A | A | BAKER E | 6 |
| SB MAT 100D 91 LEC | COLLEGE ALGEBRA | DBS 3.0 | 4:00-6:40 | MM | A | A | PARAS T | 4 |
| SB OCE 100K 91 LEC | INTRO TO OCEANOGRAPHY | DBS 3.0 | 8:15-11:30 | TH | A | TBA | 5 |
| SB OCE 101K 91 LBC | OCEANOGRAPHIC LAB | DBS 3.0 | 8:15-11:30 | TH | A | TBA | 5 |
| SB POS 120 33 LEC | GOVERNMENT & POL OF MAINE | DBS 3.0 | 7:00-9:40E | TTH | A | COOGAN W | 1 |
| THIS IS AN ITV COURSE RECEIVE SITE. |
| SB REC 216 91 LEC | ADV FIRST AID/EMERG CARE | DBS 3.0 | 7:00-9:40E | MM | A | A | JORDAN L | 4 |
| SB SOC 100J 33 LEC | INTRO TO SOCIOLOGY | DBS 3.0 | 7:00-9:40E | MM | A | A | GIGUERE M | 1 |
| **THIS IS AN ITV COURSE RECEIVE SITE.** |

**SANFORD CENTER**

| SB ABU 221 92 LEC | PRINCIPLES OF REAL ESTATE | DBS 3.0 | 4:00-6:40 | MM | A | A | KUCSMA M | 1 |
| SB ABU 221 92 LEC | PRINCIPLES OF REAL ESTATE | DBS 3.0 | 4:00-6:40 | MM | A | A | KUCSMA M | 1 |
| SB COR 112 32 LEC | CONFLICT IN NUCLEAR AGE | DBS 3.0 | 8:15-11:30 | MTH | A | A | ERICKSON/SHILTON | 2 |
| SB ENG 100C 92 LEC | COLLEGE WRITING | DBS 3.0 | 4:00-6:40 | TTH | A | A | TBA | 1 |
| SB HRD 333J 92 LEC | HUMAN GROWTH & DEVELOPMENT | DBS 3.0 | 7:00-9:40E | TTH | A | A | BIRTOLO P | 1 |
| SB POS 120 32 LEC | GOVERNMENT & POL OF MAINE | DBS 3.0 | 7:00-9:40E | TTH | A | A | COOGAN W | 1 |
| THIS IS AN ITV COURSE RECEIVE SITE. |
| SB SOC 100J 32 LEC | INTRO TO SOCIOLOGY | DBS 3.0 | 7:00-9:40E | MM | A | A | GIGUERE M | 1 |
| THIS IS AN ITV COURSE RECEIVE SITE. |
| SB THE 170F 32 LAC | PUBLIC SPEAKING | DBS 3.0 | 4:00-6:40 | MM | A | A | STEELE W | 1 |
| THIS IS AN ITV COURSE RECEIVE SITE. |
Course Descriptions

College of Arts and Sciences

Art

AED 412 Art Education Curriculum
This intensive workshop is designed for practicing art educators to plan and write coherent, sequential art curriculum for their school art programs. A wide variety of art curricular resources will be shared and critiqued. Cr 3.

ARH 111G History of Art I
Examination and discussion of the early epochs of art from prehistoric cultures through the Renaissance. Special attention is directed to the relationships of historical and theoretical knowledge to creative expression. Divergent viewpoints of the art historian, the critic, and the artist are explored. The first half of an overview of the visual arts emphasizing the interrelationships of cultural values and the forms of art. Cr 3.

ARH 112G History of Art II
A continuation of ARH 111 from the Renaissance through the 20th century. In both semesters of the course, examples of architecture and sculpture, paintings, etc. are used as the basis of inquiry. Cr 3.

ART 231 Ceramics
An introduction to methods and processes of clay forming, including modeling, pressing, handbuilding, and the potter's wheel. Emphasis on form and texture, with aspects of glaze composition and firing procedures. Prerequisite: Art Core course Cr 3.

ART 259 Landscape Drawing
This course will concentrate on drawing the landscape at Wolfe Neck Farm. Each day problems will be assigned which focus attention on fundamental aspects of the following: pictorial form and design; analysis of landscape structures and a study of light, atmosphere and the creating of space. Students planning to pursue a degree in art must take the Art Core prior to registering for this course. Cr 3.

ART 269 Landscape Painting
An investigation of the painting process as related to visual perception of the natural environment. This course will take place outdoors at Wolfe Neck Farm. Students planning to pursue a degree in art must take the Art Core prior to registering for this course. Cr 3.

ART 271 Photography
Photography as a creative medium. Introduction to basic skills in the use of the camera and darkroom equipment. Investigation and practice in the fundamental techniques and processes of black and white photography as an art form. Prerequisite: art core courses. Cr 3.

ART 299 2-D, 3-D Figure Study
A studio course of figure study including drawing, modeling, readings in artistic anatomy; supplemented by historical study of figurative art. Students planning to pursue a degree in art must take the Art Core prior to registering for this course. Cr 3.

ART 363 Painting/Watercolor
Watercolor, wash, dry-brush, ink and wash, gouache, and other techniques in watermedia. Emphasis on individual concepts and personal expression. Prerequisite: ART 261. Students planning to pursue a degree in art must take the Art Core prior to registering for this course. Cr 3.

Arts and Sciences

ARS 124 Patterns in Comparative Religion
This course seeks to stimulate a broaden- ed understanding of religion through an examination of such typical religious phenomena as rites associated with birth, life-stages, death, sacred times, sacred places, myths, and religious symbolism. Course materials, including lectures, readings, and other sources, will be drawn from the major religions of the world as well as from ancient and regional traditions. Throughout the course, particular emphasis will be given to a sympathetic, rather than judgmental, examination of religious traditions. No prerequisites. Cr 3.
**Biology**

**BIO 105K Biological Principles I**
An introduction to the structure and function of living systems from the cell to the ecological communities. This course is a prerequisite to all higher numbered courses offered in the Department of Biological Sciences. Cr 3.

**BIO 106K Laboratory Biology I**
Laboratory experiences illustrating concepts and principles introduced in BIO 105K. Must be taken concurrently with BIO 105K. Three hours. Cr 15.

**BIO 211 Human Anatomy and Physiology**
The study of functional anatomy and physiology of the human. Prerequisite: grade of C or higher in BIO 105. Cr 3.

**BIO 212 Practical Human Anatomy and Physiology**
Laboratory studies of the structure and functions of the human body including histology and physiology experiments. NOT open to those who have completed BIO 205. Prerequisite: grade of C or higher in BIO 106; BIO 211 or concurrently. Cr 1.5.

**BIO 345 Pathophysiology**
A study of the physiological, genetic, biochemical and environmental basis of noninfectious diseases. Prerequisite: grade of C or higher in BIO 211 or permission of instructor. Cr 3.

**BIO 441 Problems in Biology**
Independent library of laboratory studies on a special topic, as mutually arranged by instructor and student. Prerequisite: by arrangement. Credit Arranged.

**Chemistry**

**CHY 101K Introduction to Chemistry**
General topics in chemistry including introductory units on matter and its properties; measurement; elements and compounds; atomic structure; solutions, dispersions, and water; osmotic pressure; chemical bonds; chemical nomenclature; stoichiometry; radiochemistry; gases; acids, bases and buffers; and energy relationships in chemical processes. Three lecture hours per week (usually concurrent with CHY 102). Prerequisite: high school algebra and one year of high school chemistry (taken during the past five years) or a satisfactory grade level on the proficiency test administered by the Department. Not appropriate for science majors, pre-med, pre-vet or pre-dentistry. Cr 3.

**CHY 102K Introduction to Laboratory Measurement**
Experiments will be designed to teach students how to perform accurate and reliable measurements using the major parameters of mass and volume. Topics to be covered include: physical and chemical changes; separation of a mixture; analysis of an ionic solution; properties of water, gases, acids, bases and buffers; titration. One recitation and two laboratory hours per week. Corequisite: CHY 101. Not appropriate for chemistry or biology majors. Cr 1.

**CHY 103 Introduction to Organic and Biochemistry**
Stress will be placed upon topics of special importance for students of the health sciences: nomenclature of organic compounds; electron distribution in organic molecules; structural features of organic molecules; substitution, elimination, and addition reactions; oxidation, reduction reactions; carbohydrates; lipids; proteins and amino acids; enzymes; nucleic acids; metabolism; summary of some aspects of nutrition; pharmaceuticals; medical applications of radiochemistry. Three lecture hours per week (usually concurrent with CHY 104). Prerequisite: grade of C or better in CHY 101. Not appropriate for science majors, pre-med, pre-vet or pre-dentistry. Cr 3.

**CHY 104 Introductory Organic and Biochemistry Laboratory**
Students will perform experiments to illustrate aspects of organic chemistry of importance to living systems, as well as elementary principles of biochemistry. Topics include separation and identification of organic compounds; qualitative reactions of lipids, proteins, and nucleic acids; introduction to enzyme chemistry. One recitation and two laboratory hours per week. Corequisite: CHY 103. Not appropriate for chemistry or biology majors. Cr 1.

**CHY 113 Principles of Chemistry I**
A presentation of fundamental principles of chemical science. These principles will be presented in quantitative terms and illustrated by examples of their applications in laboratories and in ordinary non-laboratory experience. This course and CHY 114 (normally taken concurrently) provide the basis for further study of chemistry. Prerequisite: high school algebra and one year of high school chemistry (taken during the past five years) or a satisfactory grade level on the proficiency test administered by the Department. Cr 3.
**Communication**  
**COM 102J Introduction to Communication**  
This course is designed to provide students with a conceptual framework of the basic elements of human communication. Students will examine different levels of communication analysis, learn to chart and analyze communication behavior, and discuss the effects of communication on themselves and others. Topics discussed will include communication theory, self-concept, interpersonal communication, nonverbal behavior, small group interaction, and mass communication. Students will be encouraged to adapt communication principles to their various fields of endeavor.  
Cr 3.

**COM 272 Persuasion**  
A course designed to help students understand the basic principles of persuasion. The course deals with persuasion as a social phenomenon. The perspective from which the course is offered is the analysis of persuasion as a behavioral process. As such, the course will investigate the social science research that relates to persuasion. Students will examine the attempts made by others to persuade them, as well as the attempts they make to persuade others. Further, the course will deal with the issue of ethics in persuasion. Prerequisite: COM 102J with minimum grade of B or permission.  
Cr 3.

**COM 299 Family Communication**  
Family relationships that are healthy and viable, that support satisfying relationships, authentic interaction and confirming styles of response are the focus of this course. Perspectives include the family from a general system view, as a communication system, as a relational system, and as an interactional response system. Students will examine sham and straight talk, individual autonomy and family merger, as well as rigid and closed systems.  
Cr 3.

**COM 299 Introduction to Film**  
This course seeks to introduce the student to the aesthetics of film. It assumes that the student has no knowledge of cinema beyond the moviegoing experience. The aim of the course is to survey the fundamental aspects of cinema as an art form.  
Cr 3.

**COM 340 Small Group Communication**  
A discussion-participation course designed to familiarize students with the theories and techniques of small-group communication. Students will examine role behavior, group norms, conflict, group development, decision-making, communication flow, and other variables relevant to small-group interaction.  
Cr 3.

**COM 394 Theory of Film**  
The emergence and evolution of the film medium are traced through the writings and teachings of both the classic and the modern theorists/film-makers, from several perspectives: humanistic, ideological, and technical. The course focuses on the contributions of historical trends, film genres, major schools of thought, and the works of selected individuals in shaping a concept of what the medium of film is, how it operates as a language, how it relates to reality and what functions it serves. Students will apply these notions in their examination of the often conflicting relationship among the various theories as well as between film theory and film criticism.  
Cr 3.

**COM 399 Northern New England Undergraduate Communication Colloquium**  
This course is designed as an opportunity for selected student papers to be presented in a supportive environment where they can be talked about, critiqued, improved and published. Various topics from the world of communication will be discussed. The Colloquium will consist of presentations by students whose papers are selected, workshops and panel discussions as well as special activities offered during the Colloquium. For more complete information, call Summer Session at 780-4076.  
Cr 3.

**COM 430 Communication Internship**  
An in-depth study of experiences in specific areas of communication conducted in the field. Students will focus their efforts in an area related to their choice of communication expertise (i.e., organizational communication, mass communication, intercultural communication). Prerequisite: a precise definition of the project, and director's consent. Pass/Fail only.  
Cr var.

**COM 485 Sex-Related Differences in Communication**  
This seminar on sex-related differences in communication is designed primarily to evaluate critically the research literature. It is concerned with whether or not males and females differ in their actions of sending, receiving, and interpreting messages. The course examines gender-role stereotyping, empirical findings on sex-related differences in communication behavior (e.g., talking, interpersonal style, touching, eye contact, etc.), and explanations for sex differences. Critiques of some major theoretical positions are discussed (e.g., sex differences in dominance, aggression, cognition, and brain organization). Prerequisite: junior or senior standing.  
Cr 3.

**COM 499 Topics in Film**  
The specific topic explored during this course will be film and society. Films will be analyzed in the context of the political and ideological subtexts they contain. The purpose of the analysis or criticism is to understand a film and to be able to relate it to the society which it reflects and sometimes affects.  
Cr 3.

**Core Curriculum**  
**COR 112 Conflict in the Nuclear Age**  
"Since people quarrel, nations are bound to fight." Is the model of interpersonal relations applicable to international politics and war? The purpose of this course will be to explore some of the ways in which the social sciences and humanities deal with the crucial issues concerning war, peace, and superpower relations in a nuclear age. The analysis will focus on (1) the roots of conflict that give rise to tensions between nations, (2) the management and control of international conflicts, and (3) a case study of conflict in U.S.-Soviet relations. Prerequisite: ENG 100C and Skills of Analysis/Philosophy.  
Cr 3.
Criminology

CRM 215 Criminology
This course focuses on the difficult question, "what is crime?" and on problems concerning the measurement and distribution of crime. The criminology course examines some of the popular misconceptions and myths about crime, the creation and utility of official and unofficial crime statistics, popular presumptions about the causes of crime, and the institutional responses to crime in our society. The course is also listed as SOC 215. This course is one of the two basic courses in the Criminology program, along with Law and Society (SOC 336). Prerequisite: SOC 100 or permission of instructor.

CRM 399 Criminology in Sweden
This travel-study course is centered around the study of Sweden's unique criminal justice system. Students will be provided with the opportunity to live, study and experience another culture while learning about crime, criminology and social control in another country. This course provides a solid foundation for further study in the area of comparative criminology. Call Summer Session at 780-4076 for more information.

English

ENG 009A Developmental English
This course is designed to help students who need to develop proficiency to enter ENG 100, College Writing. ENG 009 is taken on a pass/fail basis. Credit earned in ENG 009 does not apply or accumulate for any degree program at the University of Southern Maine.

ENG 095 Written Business Communication
This course introduces students to business communication strategies and provides practice in the application of those strategies using the case method. Students will discuss and write business letters, short and long reports and employment writing.

ENG 100C College Writing
Classes meet regularly to analyze professional and student writing as a way of sharpening awareness of how to use language effectively. The writing assignments encourage students to apply the principles discussed in class to their own work. To complete the course successfully, the student must pass a departmental exit examination. The exit examination does not, however, guarantee that the student will pass the course. Each instructor has his or her own standards. Students may not take both ENG 100 and 100C for credit. This course cannot be used to satisfy a humanities requirement. Prerequisite: writing proficiency.

ENG 120H Introduction to Literature
A general introduction to the various literary genres - poetry, the short story, drama - which will include a study of critical terminology, close textual reading, and practice in writing. Note: The section taught by Caldwell will study the short stories, poetry and drama of the 20th century Ireland. Prerequisite: ENG 100 or 101 or waiver.

ENG 201F Creative Writing
An introduction to the principles and practice of writing fiction, poetry and drama. Emphasis is on fresh observation and meaningful selection of concrete details and their uses in the different genres. Recommended for beginners. Prerequisites: ENG 100 or 101 and ENG 120.

ENG 263H Fiction
A survey of various forms and techniques of fiction, typically beginning with oral storytelling and traditional tales, but concentrating on types of narrative developed in the nineteenth and twentieth centuries, e.g., symbolic realism, the fable, magical realism, metafiction, and other experimental forms. The course also examines the distinction between "fiction" and "non-fiction" and between "literature" and popular genre fiction.

ENG 299 Writing for Publication
This course is an introduction to writing markets with emphasis on preparing material for publication in one, or more, of these markets. Students are expected to generate, organize and complete works for publication. Instruction plus individual consultation is included.

ENG 300F Fiction Writing
This is a class for those who have already, in a course such as Creative Writing or on their own, written several pieces of fiction and are ready for more advanced work. Emphasis will be supportive rather than critical, with instruction in writing well-developed short stories and on understanding the basic elements of fiction. Suggested preparation: ENG 201.

ENG 302F Fiction Workshop: Short Stories
An advanced course requiring the completion of short stories. Course discussion will include emphasis on subject development, plot, technique and publication standards. This course is part of the Stonecoast Writers' Conference.

ENG 303F Poetry Workshop
A course for advanced students who, after experimenting with different approaches and styles, are developing their own themes and voices as poets. Class discussion will explore the initial motivation and circumstances behind a poem to clarify what the poem seeks to convey, and how well it touches the reader's emotions. Students may be called upon to write and revise poems. This course is part of the Stonecoast Writers' Conference.

ENG 304 Writing the First Novel
This workshop is for writers whose fiction requires the space and scope of the novel. The course will examine ways of structuring complex material with special attention to the relations of parts to the whole. It will consider the problems - practical and creative - peculiar to sustaining a single creative effort over a long period of time, and such aids to organization as the outline, note systems, schedules. Students will present chapters and/or projected plans to the class in an atmosphere of supportive discussion and criticism. This course is part of the Stonecoast Writers' Conference.

ENG 305 Advanced Essay Writing
Study of various forms of discourse with concentration on exposition. Provides experience in logical analysis and in the use of personal, appeals to the reader, stylistic and fictional devices, and other strategies. Prerequisite: a grade of B in ENG 100C or ENG 101C, or permission of the instructor.

ENG 306 Business and Report Writing
Primarily for juniors and seniors majoring in business administration. Training in clear and effective writing of formal reports, business communications, and related materials.

ENG 360 Shakespeare
ENG 360 features close reading of five to seven Shakespearean plays, and focuses attention both on theatrical and philosophical meanings. ENG 360 often includes a section on Shakespeare's history plays, while ENG 361 includes a section of Shakespeare's "romances" (dramatic fairy tales). Both courses include tragedies and comedies.
ENG 371 Major Romantic Writers
Emphasis in the course will be on major British Romantic poets (Blake, Wordsworth, Coleridge, Byron, Shelley, Keats). Romanticism will be examined as a poetic movement as well as a development in the history of literary theory. Students will read several short prose treatises on literary theory (Wordsworth, Coleridge, Hazlett, de Quincey, Shelley). Also, the class will read Mary Shelley's Gothic masterpiece *Frankenstein*. Cr 3.

ENG 379 Earlier Women Writers
The aim of this course is twofold, to introduce students to the wealth of major works by women writers and to consider in detail the voices of women on women and society. Women novelists and poets have explored the entire range of human experience, of social, political, and philosophical issues as well as personal experience. This course will discuss the ways in which they have treated such issues as they relate to women's own lives. Although specific content may vary from semester to semester, readings are likely to emphasize nineteenth-century writers like Jane Austen, George Eliot, Charlotte Bronte, and Elizabeth Gaskell. Cr 3.

ENG 380 American Renaissance
Major American writers of the mid-19th century. Includes critical study of major works by Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson with attention to the social and literary backgrounds. Cr 3.

ENG 389 Writers of Maine
Historical and literary analysis of writers in and about Maine. The emphasis will be on the literary quality of the best-known men and women writers and the place in history both past and present of the lesser-known writers. Extra credit in the course will be given for a report about any off-campus project related to an author and a particular locality in Maine. English majors should have already taken a survey of American literature; prospective teachers will prepare an annotated bibliography of one author of their choice. Cr 3.

ENG 391 Modern American Poetry
This course will focus on two or three major poets such as Stevens, Frost, Marianne Moore, Pound, Williams, Plath, and H.D. The course will also, however, seek to place them in a historical perspective, both in technical development and specifically American themes and conceptions of reality. There will be some examination of poets like Whitman and Dickinson, who stand at the beginning of modern American poetry, as well as contemporary poets like Levertov, Rich, Gwendolyn Brooks, Kinnell, and Bly. The primary focus will then be to examine the selected figures against the broader context, with the purpose of defining their unique voices and forms. The selected poets will vary with the semester. Cr 3.

ENG 395 Anglo-Irish Literature
A study of the major Irish writers from 1880 to the present. Topics may vary, but they will typically include some of the foremost Irish writers of the past century, such as Yeats, Lady Gregory, Wilde, Shaw, Synge, Joyce, O'Casey, Behan, Beckett, O'Conor, Bowen, Lath, Heaney, Friel. Cr 3.

ENG 399 The Contemporary Short Story
This is a seminar course, structured around the reading and discussion of a broad spectrum of American short stories, drawn from the last five decades. The theme for this exploration will be the social energy and the moral imagination inherent in the works themselves with emphasis on the transformation of these two forces within the story material. Cr 3.

Foreign Languages
Note: any students taking FRE 107, GER 107, RUS 107, SPA 107 or SPA 209 must register for both lecture and lab.

FRE 107 Intensive Beginning French
An intensive course for the beginning student, covering a full year's work at the college level to prepare the student for the intermediate level of college French. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading, and writing, along with an introduction to contemporary culture and civilization. Daily practice in the lab is required. Cr 6. (With lab. Cr 8.)

FRE 464 French Novelists of the 80's
A seminar in 20th-century French literature, based on selected themes which will vary each time the seminar is offered. The theme will be announced the year that the course is given. Prerequisite: FRE 361, 362H or 363H. Cr 3.

GER 107 Intensive Beginning German
An intensive course for the beginning student, covering a full year's work at the college level to prepare the student for the intermediate level of college German. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading, and writing along with an introduction to contemporary culture and civilization. Daily practice in the lab is required. Cr 6. (With lab. Cr 8.)

RUS 107 Intensive Beginning Russian
This course is an intensive course for the beginning student, covering a full year's work at the college level to prepare the student for the intermediate level of college Russian. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading and writing, along with an introduction to contemporary culture and civilization. Daily practice with tapes is required. Cr 6. (With lab. Cr 8.)

SPA 107 Intensive Beginning Spanish
An intensive course for the beginning student, covering a full year's work at the college level to prepare the student for the intermediate level of college Spanish. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading, and writing along with an introduction to contemporary culture and civilization. Daily practice in the lab is required. Cr 6. (With lab. Cr 8.)

SPA 207 Intensive Intermediate Spanish
This is an intensive course for the intermediate student, covering a full year's work at the college level to prepare the student for an advanced language level. Emphasis is placed upon the four skills of language learning: speaking, understanding, reading and writing. Readings and discussions of contemporary Hispanic civilization and culture are included. Daily lab work is mandatory. Cr 6. (With lab. Cr 8.)

CLA 283H The Epic Hero in Ancient Literature
Intensive readings in English translations of *Gilgamesh, Iliad, Odyssey, Aeneid*; discussion, papers. Prerequisite: sophomore standing. Cr 3.
**Geography and Anthropology**

**GEO 1201 Geography of Maine**
This course will examine Maine as a geographic region. Physical and cultural attributes of the state will be analyzed. Political, economic and demographic factors will be emphasized in viewing the assets and problems of the Maine environment, and in planning Maine's future. No prerequisites. Cr 3.

**GYA 300 Archaeology Field School**
The summer field school is designed to combine training in research methods of archaeology and geography. Students will receive intensive training in methods of survey excavation and materials analysis. Several weeks will be spent at selected areas of coastal Maine involved in survey and excavation of sites, mapping sites and landscape features, and investigating potential food resources in site areas. This will be followed by some laboratory analysis of recovered materials. This course may be repeated up to twice with the permission of the instructor. Cr 6.

**Geosciences**

**GEY 111K Physical Geology**
A study of the ever-changing earth by wind, water, volcanism, crustal movement, and glaciation. Three hours of lecture. GEY 111 may be taken without GEY 112. Cr 3.

**GEY 350 Geological Field Methods**
A course in geological field methods intended to introduce the student the tools and practical techniques used in collecting, compiling, and analyzing geological data. Students will have assignments in the igneous/metamorphic and surficial terrain of southern coastal Maine and sedimentary and volcanic terrain in eastern coastal Maine. Summer. Five weeks. Prerequisites: GEY 111, 112 and GEY 113, 114. GEY 203, GEY 301. Recommended: GEY 302, GEY 303, GEY 202. Cr 6.

**OCE 100K Introduction to Oceanography**
Origin and extent of the oceans; nature of the sea bottom; causes and effects of currents and tides; chemical and physical properties of sea water; animal and plant life in the sea. Three hours lecture. Cr 3.

**OCE 101K Oceanography Laboratory**
A laboratory course in which the student is introduced to some of the techniques and technical processes involved in oceanic measurements and data reduction. Prerequisite: OCE 100 which may be taken concurrently. One two-hour laboratory session each week. Cr 1.

**History**

**HTY 101I Western Civilization I**
A basic survey and introduction to the heritage of Western man from ancient to early modern times. Particular attention is given to the ancient civilizations of Egypt, Greece, and Rome. Medieval civilization is explored with a focus on the great nation-states as conceived by the Roman world. The Renaissance and Reformation and the rise of the great nation-states are studied. Throughout the course important individuals are considered such as Alexander the Great, Caesar, Charlemagne, Michelangelo, and Elizabeth I. The course also introduces students to historical method. Cr 3.

**HTY 102I Western Civilization II**
A basic survey and introduction to the heritage of Western man from early modern times to the atomic age. Particular attention is given to the Enlightenment, the French Revolution, the rise of the industrial era, the growth of nationalism, and the World Wars. PERSONALITIES such as those of Napoleon, Hitler, and Stalin are studied. The course also introduces students to historical method. Cr 3.

**HTY 131I United States History to 1877**
A basic survey and introduction to the field of American history, covering the political, social, and economic development of the United States through Reconstruction. Cr 3.

**HTY 132I United States History Since 1877**
The course is a continuation of HTY 131. A survey of American political, social, and economic development since about 1877. Cr 3.

**HTY 316 French Revolution and Napoleon**
The course takes the French Revolution as a climax of major intellectual, political and social trends in eighteenth-century Europe. Thorough coverage is given to the Old Regime, the Enlightenment and the influence of the American Revolution. There is in-depth analysis of the coming, course and outcome of the French Revolution itself, and its impact outside France. The Napoleonic era is handled as the culminating phrase of the revolution and as a major influence on nineteenth-century Europe. Prerequisite: HTY 102I or permission. Cr 3.

**HTY 360 History of Maine**
A survey of Maine's social, economic, and political life from exploration and early settlement to the present. Cr 3.
The MAT 104D Topics in Mathematics
This course is designed to give students (not majoring in mathematics or computer science) an understanding of some key ideas in contemporary mathematics. The material is chosen to develop an awareness of the utility of mathematics in life and to instill an appreciation of the scope and nature of mathematics. Topics will be selected from: sets, logic, graphs, geometry, counting methods, probability, statistics, game theory, growth and decay laws, matrices, and mathematical programming. Prerequisite: Two years of high school algebra and one year of geometry.
Cr 3.

MAT 110D Business Calculus
A unified treatment of the elementary functions of analysis; their analytical properties including derivatives, integrals, and series; introduction to multivariate calculus; applications. Prerequisites: two years of high school algebra and one year of geometry, and a passing grade on an algebra competency test which will be administered at the first class meeting. Cr 3.

MAT 120D Introduction to Statistics
An introductory course including basic probability, random variables, and their distributions; estimation and hypothesis testing; regression and correlation. Prerequisite: Two years of high school algebra. Cr 3.

MAT 131D Number Systems for Elementary Teachers
This is the first course in a three-course sequence in mathematics recommended by the committee on the Undergraduate Mathematics Program of the Mathematical Association of America for prospective primary and elementary teachers. Major emphasis is placed on an intuitive approach to the real number system and its subsystems. Prerequisites: Two years of high school algebra and one year of geometry. Cr 3.

MAT 140D Pre-Calculus Mathematics
A brief review of elementary algebra followed by a study of the algebraic, exponential, logarithmic, and trigonometric functions. Prerequisites: Two years of high school algebra and one year of geometry, and a passing grade on an algebra competency test which will be administered at the first class meeting. Cr 3.
MME 513 Laboratory: Project ASPIRE Calculus
This is a supervised practicum designed to prepare academically qualified, experienced high school faculty to teach sections of introductory calculus offered by the Department of Mathematics and Statistics at USM. Prerequisite: Must be taken concurrently with MME 519. Cr 3.

MME 519 The Teaching of Calculus in Secondary Schools
This is a review of basic calculus and will include functions of one or more variables, graphs, limits, derivatives, integrals, applications of derivatives and integrals, optimizations, infinite series, and analytic geometry in the plane. Prerequisite: A master's degree in mathematics (or the equivalent), at least five (5) years of teaching experience, and recommendation of the high school principal and the department chairperson. Students must apply directly to the instructor for acceptance to the course. Cr 3.

MME 549 Selected Topics in Mathematics
A course designed to provide enrichment topics for the elementary teacher. The course includes such topics as Awareness Geometry, Transformation Geometry, Analysis of Shapes, Number Theory and Measurement. The course is activity based and involves activities which may be implemented into the classroom. Cr 3.

Military Science
MIS 229 ROTC Basic Camp
A six-week summer camp conducted at Fort Knox, Kentucky. The student receives pay; and travel costs are defrayed by the Army. The environment is rigorous, and is similar to Army Basic Training. The training includes the role and mission of the U.S. Army, map reading and land navigation, first aid, marksmanship, leadership, physical training, drill and parades, and tactics. Completion of MIS 229 satisfies all basic course requirements. Six different courses offered during the summer. Basic course applicants are accepted during the spring semester. Students apply for enrollment to the professor of military science. Selection for attendance is based on qualifications and merit. Cr 6.

Music
MUE 521 Music for Exceptional Learners
This course will address learning characteristics of all categories of exceptionalities with specific reference to music at all levels and in all areas. This course will meet the state requirements of a graduate course in exceptionality needed for recertification of all teachers. Cr 3.

MUE 522 Choral Music Workshop
Singing, discussion and lecture about the art of choral singing. The class will prepare one or more major choral works (selected from Mozart's Requiem, Vivaldi's Magnificat, and Britten's Rejoice in the Lamb) and study them from the perspectives of analytical structure, conducting technique and healthy use of voice. Professor Gudrun Schrofel-Gatzmann, associate conductor of the Madchenchor of Hannover, Germany, will be guest professor, specifically addressing the issue of choral voice building. Cr 2.

MUE 523 Jazz Educator's Workshop
This course is designed for educators who seek to develop pedagogical skills in the jazz idiom. Topics covered will include conducting and rehearsal techniques, jazz styles and their historical development, literature and method books, basic jazz improvisation and arranging as well as development, administration and promotion of a school jazz program. Cr 3.

MUE 559 Orff Certification Level I
This course will provide experiences in basic Orff, movement and recorder which will enrich music classroom curricula. The course will be taught by a certified Orff instructor and other staff. Participants will receive Level I certification. Cr 3.

MUS 100G Music Appreciation and History
A survey of music from the Gregorian chant to modern times, covering musical practices of the renaissance, baroque, classical, romantic, and contemporary periods. Representative works by the outstanding composers of each period. Open to all students. Cr 3.

MUS 110F Fundamentals of Music
A background study of concepts and skills essential to an intelligent reading of music. The development of natural music abilities through participating in singing, rhythmic activities, and instrumental work. An appreciation of music through awareness of basic structures. Open to all students. Cr 3.

MUS 406 Chamber Music: Strings
Persons enrolled in the Portland String Quartet's Summer String Workshop at Colby may enroll for one to three hours of college credit through USM.

New England Studies
Note: All students who have not been accepted into the New England Studies Program must have written permission from the Director before taking any New England Studies course.

NES 625 Culture, Thought and New England Literature to 1860
This course is a broad approach to New England letters that focuses on the region's intellectual, cultural, and literary traditions and on the importance of a sense of place in regional literature. Cr 3.

NES 650 Topics in New England Studies: Working Class Culture
This course is an in-depth study of a significant aspect of New England from an interdisciplinary perspective. Cr 3.

NES 655 Historic Archaeology
This course involves a study of theories and methods used by archaeologists with an emphasis on how archaeological data and artifacts help us understand the social, cultural and material life of New England's past. Some attention will be paid to comparative regional archaeology and to field work. Cr 3.

NES 690 Project
Completion of a two-semester project (NES 690/691) that combines independent study and work in a historical society, a museum, a cultural organization or other public or private institution. In consultation with an advisor, the student defines and develops the project in relation to his or her particular interest in New England Studies. Cr 3 (NES 690 and NES 691: Cr 6).

Philosophy
PHI 101E Introduction to Philosophy: Freedom and Determinism
Is there a human will at all? This course will concentrate on the issue of freedom vs. determinism. The importance of the human will insofar as it influences views of experience, politics, society, etc., will also be considered. Cr 3.
PHI 105E Introduction to Philosophy: Theories of Human Nature
A study of some influential theories of human nature in Western culture. Among issues to be studied are: the questions of method; freedom and determinism; materialism and dualism; and the nature of moral values. Cr 3.

PHI 112E Introduction to Philosophy: Concepts and Consequences
Philosophy comprises both a kind of question and a way of answering questions. The questions it ask are fundamental ones; the way of answering is universally applicable. This course will provide an introduction to some typical questions: how are my mind and body related? what makes me me? what is causation? am I free? how can I know anything? what ought I to do? In addressing these questions and looking at response to them by contemporary and historical thinkers, we will also practice the methodology of philosophy in discussion and writing. The aim is not so much to find "the answers," but to learn how to think clearly about such issues and to present one's thoughts precisely and logically. Cr 3.

Physics
PHY 111K Elements of Physics I
An introduction to the fundamental concepts of mechanics, sound and heat. Lectures, problem solving, demonstrations, laboratory exercises will be used to develop an understanding of physical phenomena. This course is not recommended for students planning to major in the physical sciences or engineering. Prerequisite: high school algebra. Two 2-hour 45-minute lectures, one 3-hour lab and one 2-hour 45-minute recitation per week. Cr 4.

PHY 112 Elements of Physics II
A continuation of PHY 111K introducing the concepts of electricity, magnetism, optics, and modern physics. Prerequisite: PHY 111K or equivalent. Two 2-hour 45-minute lectures, one 3-hour lab and one 2-hour 45-minute recitation per week. Cr 4.

Political Science
POS 101J Introduction to American Government
This course focuses on the political institutions, processes, behavior, and problems of the American government, with emphasis on the United States. The national government is emphasized. Key topics include: the Constitution, Supreme Court, Congress, Presidency, political parties, public opinion, and interest groups. Cr 3.

POS 102J People and Politics
This course introduces the student to modern political analysis. It centers on basic questions in the study of political behavior: how people learn about politics, what kind of political system they adopt and support, who does and who does not participate in politics, how political conflict is expressed and resolved in various societies. The course aims at familiarizing the student with major approaches or methods which political scientist have found helpful for understanding real political behavior. Note: POS 101 is not a prerequisite for POS 102. Cr 3.

POS 120 Government and Politics of Maine
This course concerns Maine State Government, including legislative, executive and judicial programs and powers as exercised within the system of Maine values, political parties, and interest groups. Open to political science majors and as an elective to the student who has an interest in the programs and politics of the state of Maine. Cr 3.

Psychology
PSY 101J General Psychology I
An introduction to the study of behavior as a natural science. Among the topics covered are: method of inquiry, physiological foundations of behavior, sensation and perception, motivation and emotion, learning and thinking. This course is a prerequisite for all courses in the department. Cr 3.

PSY 102 General Psychology II
A continuation of Psychology 101. It deals with complex psychological processes such as ability testing, personality, conflict, behavior disorders and therapy, and social and industrial behavior. Prerequisite: PSY 101. Cr 3.

PSY 232 Psychology of Adjustment
A study of the development of personality patterns, modes of behavior, life styles, and coping mechanisms considered normal in this society. Consideration of their value to individual functioning. Prerequisites: PSY 101 and 102. NOTE: This course does not count toward major credit. Cr 3.

PSY 235 Psychology of Women
Psychology of women and psychological literature relevant to men and women. Some topics include physiological and personality differences between the sexes, sex-role development, role conflict, women and traditional therapy. NOTE: This course does not count toward major credit. Prerequisites: PSY 101 and 102. Cr 3.

PSY 333 Psychopathology
The etiology, development, and manifestation of the major forms of mental illness with particular emphasis upon the neuroses and psychoses. Psychological, social, and biological factors which contribute to maladjustment are examined. Prerequisite: PSY 101 and 102. Cr 3.

PSY 361 Sensation and Perception
An examination of perceptual processes in selected sensory systems. Emphasis on experimental methodology, research findings, and theoretical interpretations. Prerequisites: PSY 201D and 205. Cr 3.

PSY 400 01 Sports Psychology Institute
See Special Programs section of this catalog.

PSY 400 02 Childhood and Psychopathology
See Special Programs section of this catalog.

Social Work
SWO 101J Introduction to Social Welfare
Seeks to define a perspective within which to understand the needs, problems, and potential of humans as individuals and in groups. Describes and analyzes social welfare systems and social work practices as they currently respond to social needs, and as they might better facilitate the development of human potential. Cr 3.

SWO 361 Dynamics of Organizations, Professions and Consumers
Provides a series of concepts for the study and critical evaluation of the bureaucracies, professions, and consumers of social work and other services. Examines a range of approaches to rendering human services more responsive to client needs. This course is offered one semester each academic year. Prerequisite: SWO 352, SWO 354 or permission of instructor. Cr 3.

SWO 399 International Social Welfare Study Tour: Great Britain
This two-week travel-study course will explore and discuss the relationship between the social welfare system in the United States and Great Britain in both historical and contemporary contexts. The educational objective is to gain an appreciation of the influence of history and culture on how problems are identified and responded to in any nation's societal context. Cr 6.
SWO 399 Management of Social Services
This course provides a general introduction to the major theories, principles and methods of management of social service agencies in the public, voluntary and private sectors. The four essential functions of management (planning, organizing, influencing and controlling) are discussed in detail with specific examples drawn from social service contexts. The unique roles and responsibilities of the various levels of management (supervisor, consultant, executive) are explored. Finally, current and emerging issues facing the Social Welfare System in the United States such as accountability, marketing, volunteering, etc, are introduced. Cr 3.

Sociology
SOC 100J Introduction to Sociology
The fundamental concepts, principles, and methods of sociology are analyzed. The study of social and cultural factors upon human behavior is discussed. The effect of group processes, social classes, stratification, and social institutions on contemporary society is examined. Cr 3.

SOC 200 Social Problems
Application of a sociological frame of reference to selected contemporary issues is discussed. The student is directed toward an understanding of why and how issues develop, how particular social groups are affected by them, and what is involved in dealing with them. Prerequisite: SOC 100 or permission of instructor. Cr 3.

SOC 215 Criminology
This course focuses on difficult questions such as “What is crime?” and on problems concerning measurement and distribution of crime. The criminology course examines some of the popular misconceptions and myths about crime, the creation and utility of official and unofficial crime statistics, popular misconceptions about the causes of crime, and the institutional responses to crime in our society. This course is also listed as CRM 215. This course is one of the two basis courses in the Criminology Program, along with Law and Society (SOC 336). Prerequisite: SOC 100 or permission of instructor. Cr 3.

SOC 380 Sociology of Violence
This course will investigate the sociocultural factors associated with various forms of human violence, both instrumental and expressive. Among the topics to be considered are: domestic violence, hooliganism, violent crimes and political violence, from terrorism to war. Prerequisite: SOC 100 or permission of instructor. Cr 3.

SOC 399 Criminology in Sweden
This travel-study course is centered around the study of Sweden's unique criminal justice system. Students will be provided with the opportunity to live, study and experience another culture while learning about crime, criminology and social control in another country. This course provides a solid foundation for further study in the area of comparitive criminology. Call Summer Session at 780-4076 for more information. Cr 6.

Theatre
THE 101G Introduction to Drama
A lecture-discussion course designed to provide students with a conception of the development of the theatre and its literature. The course consists of a survey of Greek medieval, Elizabethan, French, neo-classic, and 18th, 19th and 20th century theatre and drama. Cr 3.

THE 120F Acting I—Fundamentals of Acting: Movement and Improvisation
This is a practical course designed to introduce the student to basic procedures necessary to experience the creative process in acting. The course is designed to cultivate the student's sense of both physical and mental self by increasing his imagination, creativity, and technical abilities. Course utilizes movement, sensitivity, mime and improvisational exercises. Cr 3.

THE 170F Public Speaking
An introductory course in the fundamentals of public discourse. Primarily a lecture-performance course, students will learn the basics of informative, persuasive, and entertaining speaking, as well as the processes of problem-solving and informative discussion. Emphasis is upon perception, analysis, structure, and modes of proof. Cr 3.

THE 299 Introduction to Ballet
This course is designed to acquaint students with the technique, history and aesthetics of ballet. Students will participate in a weekly dance technique class where they will learn basic ballet vocabulary, discipline and movement phrases. Video tapes of Romantic, Neo-classical and psychological ballets will be shown as part of history and aesthetic study. We will view dances within the social context in which they were created and with the choreographer's intention as a guide. Cr 3.

THE 398 Theatre Internship
Students will assume a full one-semester internship with a professional theatre or Reader's Theatre Company. Students will be involved in management, acting, directing, or technical theatre as a member of the company. Each student will be assigned a faculty advisor who will make a biweekly evaluation of ongoing work. Participants will be required to keep a diary and/or portfolio to be reviewed by the faculty of the Theatre Department at the conclusion of the internship. All creative work done by the student will be evaluated by the advisor and at least one other, if possible, all members of the department. Prerequisite: permission of the Theatre Department. To be arranged. Cr 3-15.

Women's Studies
WST 320 Topics in Women's Health: Women and Work
Each semester topic areas not already covered by regular course offerings in women's studies will be offered. The course may be repeated for credit when different topics are considered. Cr 3.
College of Education

Undergraduate Education

EDU 200 Studies in Educational Foundations
This course provides an introduction to the study of American education. Problems and issues in contemporary education are examined from several perspectives, including the social, historical and philosophical. Cr 3.

EDU 210 Theoretical Foundations of Learning
An interdisciplinary approach to the study of the learning process. Explores origins and domains of learning theories. Analyzes how major theories view the learning process. Applies theoretical content to motivation, concept development, classroom management, methodology and evaluation. Prerequisites: EDU 100 and HRD 333 (or concurrent). Cr 3.

EDU 305 Teaching Elementary School Mathematics
The content of the course will focus on developing techniques for teaching mathematics to elementary grade pupils. Conducted in a setting of activity-oriented sessions, special attention will be devoted to explanations for children about the fundamentals of mathematics, diagnosing mathematical difficulties, organizing various modes of instruction, and exploring ways to enrich the curriculum. Prerequisite: MAT 131. Cr 3.

EDU 308 Science for Children
An alternative to EDU 307. This course is conducted in a University science resource center and provides opportunities for students to apply learning theory by exploring current science curricula. Emphasis is on content analysis and comparison and on implementation in public classrooms. A field experience is included whenever possible. Recommended prerequisite: EDU 210. Cr 3.

EDU 312 Teaching Language Arts in Elementary School
Recent methods and materials basic to the teaching of communications skills. Topics include spelling, handwriting, listening, creative expression, oral and written reporting. Use of tapes, records, films, and contemporary language arts books for the elementary school. Cr 3

EDU 321 Developmental Reading II
This course builds upon the concepts introduced in Developmental Reading I. Students are guided in designing specific instructional activities that correspond to the major stages of reading progress. Empirical demonstrations, methods, and materials for teaching reading are stressed. Cr 3.

EDU 323 Independent Study in Education
To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences and emerging with an intellectually sound, coherent synthesis, or an artistic or technical creation reflecting a high caliber of performance. May not be used as a substitute for currently described courses. Cr Var.

EDU 335 Exceptional Students in the Classroom
This course shall serve as an introduction to the unique characteristics and needs of exceptional students in grades K-8. Legislation and its implications, roles and responsibilities of the regular classroom teacher, resources and characteristics of exceptional students shall be discussed. Cr 3.

EDU 336 Children's Literature
This course emphasizes a creative, interdisciplinary approach to children's books, an understanding of the interests and developmental tasks of the child, and, by precept and example, methods of individualizing reading. The student will be expected to read children's books widely and in depth. Cr 3.

EDU 360 Microcomputer Applications in Education
This course is designed to orient the preservice teacher with the terminology, operation, evaluation, and applications of microcomputers, hardware, and software, as related to American educational systems. Additionally, the course will deal with traditional electronic and electro-mechanical media as related to modern learning processes.

HRD 333J Human Growth and Development
This course introduces developmental theory and research which encompasses the entire life span. Emphasis will be on prenatal development through adolescence, with an overview of adult development. A multi-disciplinary view of human development will be taken which considers stability as well as change throughout the life cycle. The interaction of hereditary and environmental factors will be considered in studying physical, cognitive, and psychosocial development. Cr 3.

PHE 102 Independent Activities
This course will allow students to earn credit for doing physical education activities outside the University. Students may select any activity which can be done independently or may enroll in a structured program, such as Y classes, aerobic dance classes, etc. Instructor permission required. Cr 1 or 2.

PHE 203 Athletic Training
This course will cover injury recognition and evaluation for coaches, athletes, fitness providers, physical educators and recreators. The course will focus on injury management and treatment including the use of therapeutic modalities, exercise rehabilitation, emergency procedures and the effects of nutrition and drugs on exercise performance. Each participant will develop practical skills relating to the proper use of tape, wrapping and protective equipment. Cr 3.

PHE 242 Experiential Education—The Outward Bound Experience—Hurricane Island Outward Bound School (Summer)
The course has two major parts: (1) training period and (2) final expedition. During the training period students are instructed and participate in sail theory, navigation, seamanship, first aid, rock climbing, camping skills and environmental awareness. The final expedition is designed to allow the student an opportunity to demonstrate the application of each newly learned skill. All students will participate in a solo (an ex-
Graduate Education

Resource Courses

EDU 600 Research Methods and Techniques in Professional Education
A study of concepts, principles, and techniques of educational research with emphasis on scientific inquiry and problem solving, designed for both the producer and consumer of educational research. Individual research proposals and reports are completed. Prerequisite: open to matriculated students only. Cr 3.

EDU 699 Independent Study
This course provides an opportunity for students to pursue a topic of interest on an independent basis. The specific content and evaluation procedures are arranged with an instructor. Permission of department chair is required on forms obtained in the Graduate Education office. Cr var.

Human Resource

HRD 605 Life Span Development II
Examines the processes underlying growth, development, and behavioral changes of humans from young adulthood through old age to death. The interaction of biological, cognitive, and psychosocial development in adulthood. Cr 3.

HRD 607 Introduction to School Guidance Services
This is an introductory course for those intending to enter the field of school guidance and counseling. It is designed to consider the theoretical basis for guidance practices in elementary and secondary schools (K-12). This includes working collaboratively with the home, school, and community to meet the personal, educational, and career concerns of students. Historical and social contexts along with philosophical issues and emerging directions of guidance will also be discussed. Cr 3.

HRD 608 Career Development
This course will focus on the process of career development. Work will be addressed as an activity which has a primary impact on our lives. Career development will be examined as a process which continues throughout the life span. Different theories of vocational choice will be examined and various methods of assessing vocational interests and aptitudes will be explored. Special populations such as: disabled, displaced homemakers, and elderly will be discussed. The overall emphasis of the course will be to explore with participants career development strategies used in school and community settings. Cr 3.

HRD 620 Fundamentals of Counseling Skills
This course emphasizes the development of fundamental counseling skills such as attending behavior, listening, reflection of feeling, paraphrasing, and questioning. The course examines the process and content of the counseling interview as well as verbal and non-verbal factors which influence the interactions within the counseling relationship. Primary focus will be to help the student develop greater self-knowledge and skills in interpersonal communication within the counseling relationship. Prerequisite: open to matriculated graduate students only. Cr 3.

HRD 621 Fundamentals of Counseling Theories
A seminar for those who are or will be engaged in psychological counseling in an educational or mental health setting. Selected theories and techniques are closely examined. The research literature which has a bearing on the effectiveness or ineffectiveness of counseling is reviewed. Cr 3.

HRD 622 Counseling Young Children
This course is designed to review theories, techniques, and strategies used in counseling young children. Attention will be given to the examination of the counselor's role, the goals of counseling and developing relationships with children. In addition, students will be given the opportunity to explore the uses and techniques of non-verbal languages of counseling including play, dramatics, movement, art and music, and how they relate to child growth and development. Prerequisite: successful completion of HRD 620 or permission of the instructor. Cr 3.

HRD 626 Group Process and Procedures
The course focuses on the understanding of basic principles of group development and the recognition of the dynamics of group interaction. It also focuses on the improvement of personal interaction processes and their application to other group settings. Open to matriculated graduate students only. Cr 3.

HRD 627 Group Counseling
This course is an extension of basic knowledge and practice in the fundamentals of group dynamics. Emphasis will be on the development of concepts, attitudes, and skills necessary to understand and lead counseling groups in a...
variety of settings and on the development of a deeper sense of how each participant intervenes in a group. Prerequisites: HRD 626 or equivalent. Cr 3.

HRD 662 Theories of Human Development
This course is designed to provide an understanding of the nature and needs of individuals at all developmental levels. It will examine major theoretical perspectives on life-span development and the philosophical and historical bases of these approaches. This examination will include an overview of cognitive developmental theories, personality theories, learning theories, the ethological perspective, humanistic theories, and theories of adult development. Cr 2.

HRD 663 Child and Adolescent Development
This course is designed to provide an understanding of the nature and needs of individuals at all developmental levels. It will examine the processes underlying growth, development and behavioral changes from conception through adolescence. The interaction of biological and environmental factors will be considered in studying physical, cognitive, social and emotional development during these early stages of the life span. Prerequisite: HRD 662 or permission of instructor. Cr 2.

HRD 645 Gerontology Institute: Death and Bereavement
See Institutes for Educators section of this catalog

HRD 665 Psychological Measurement and Evaluation
This course focuses on group tests and related measurement techniques. The course content will include a review of the history of testing, current issues, fundamental statistics for understanding and evaluating tests, a review of selected aptitude, intelligence, achievement, interest and personality tests. In addition, other standardized and non-standardized evaluation measures will be reviewed. Cr 3.

HRD 666 Individual Assessment: A Holistic Approach
The design of this course is to explore the principles, purposes, and application of individual assessment. The course content includes instrument selection and evaluation, data interpretation, and intervention strategies in the following areas: academic skills, intellectual functioning, psychomotor performance, medical and family history, and social development. A case study format is used. Emphasis is placed on a holistic approach to data collection, interpretation and intervention. This is a basic orientation course for educators and others involved in planning specialized programs for individuals. It is not intended to produce skills in test administration. Prerequisites: HRD 665 and EDU 600 or equivalents. Cr 3.

HRD 686 Internship in Counselor Education
This course provides an opportunity for the student to integrate formal coursework with on-the-job experience in selected helping institutions. The course may be taken for 3 to 12 credit hours and is a post-practicum (HRD 690) experience. Prerequisite: approval of the supervising professor. Cr 1-6.

HRD 687 Internship in Adult Education
Designed to provide professional experience in the student's selected area of concern. A plan for the internship is presented for approval to the student's adviser. On approval, the intern completes his/her planned program under the supervision and evaluation of a responsible person for the internship assignment. Cr 1-6.

HRD 698 Directed Study in Human Resource Development
This course provides students the opportunity to pursue a project independently, planning and exploring an area of interest within the field of human resource development. The project must be field based, intellectually sound and reflect a high caliber of performance. Specific content and methods of evaluation are determined in conjunction with the faculty supervisor. An approved proposal is a necessary prerequisite to registration. Cr 1-3.

HRD 699 Independent Study in Human Resource Development
This course provides students the opportunity to pursue a project independently, planning and exploring a topic of interest within the field of human resource development. The project must be field based, intellectually sound and reflect a high caliber of performance. Specific content and methods of evaluation will be determined in collaboration with the instructor. An approved proposal is a necessary prerequisite to register. Cr 3.

HRDX 508 Understanding and Managing Professional and Personal Change
The course is designed to enable students to identify their own systems for managing change with the aim of transferring this learning to working with clients, peer-groups and managers. Techniques introduced to handle these explorations and skills development will demonstrate how life and career management may be treated eclectically. Contributions from a variety of theoretical positions will be examined in theoretical and experiential contexts. Personal learning derived from the sessions will be consolidated using reflective work based on Ira Progoff to provide markers in understanding and managing personal processes. A strong international flavour will be brought to the course by drawing on recent work and expertise in Europe including Life and Career planning, stress management and interpersonal skills analysis. Cr 3.

HRDX 606 Management of School Guidance Programs
The course will provide counselors with the skills to develop, implement and evaluate comprehensive school guidance programs. A multi-dimensional perspective will assist counselors in defining roles, designing intervention strategies, and promoting accountable services. Cr 3.

HRDX 614 Expert Witness: Legal & Ethical Issues in Rehabilitation
This course will provide an overview of the role of the rehabilitation professional as an expert witness, with special attention given to the legal and ethical issues involved in providing expert testimony. Cr 3.

HRDX 644 Organizational Development
This course introduces the student to the theory, concepts, practices, skills, and tools of organizational development. A variety of intervention strategies and techniques are explored. Emphasis is placed on the facilitator role in successful organizational interventions. This course is part of the training and development concentration. Cr 3.

HRDX 669 Family Systems
This course examines the application of general systems theory to family development and family interactions as well as provides an overview of the major theories of family therapy. Additionally, it reviews the multigenerational impact of the family on the emotional health and psychopathology of the individual. Cr 3.
HRDX 683 Adolescent Depression and Suicide
The objective of this course is to become informed of the major aspects of understanding and working with the depressed, suicidal adolescent. The focus will be on the definition of suicide according to Edwin Schneidman as well as understanding adolescence from a developmental perspective. In addition, the myths, realities, attitudes, motives and underlying causes and prevention of adolescent suicide will be discussed. Cr 3.

HRDX 693 Practicum in Life Storytelling
The basic assumption of this course is that life stories offer a unique way of understanding development across time, and that taking time to view our own lives as a whole is one of the important ways in which we uncover meaning as well as personal truth in our lives. Using primarily a practicum/workshop approach, autobiographical exercises will be combined with the use of traditional stories (myths, biblical tales, and folk tales) to create one's personal myth, adding perspective, depth, connectedness, and a richness to the life story. The experience of life storytelling becomes another way of defining personality, through identifying those motifs and themes that help shape and guide our perceptions and development. This process will also enable counselors, educators, and other human service providers to become more aware of the guiding themes in the lives of those with whom they work. Prerequisite: HRD 604, HRD 605, or permission of instructor. Cr 2.

Educational Administration
EDU 670 Introduction to Administration
Required first course for all master's degree candidates in educational administration. The course introduces theories of administration and provides each student with a diagnostic data to conduct a needs assessment as the basis for planning a personalized program of study. Prerequisite: admission to educational administration graduate program. Cr 3.

EDU 671 Organizational Behavior
A systems approach to understanding and predicting human behavior within organizations. The course emphasizes analytical means to 1) reveal forces which affect decision-making and leadership behavior, and 2) identify implications for managerial functions. Basic concepts such as authority, influence, motivation, communication, conflict, pattern maintenance and tension management are discussed and applied. Cr 3.

EDU 678 School Law
The purpose of this course is to acquaint students with general principles of school law as found in the interpretation of constitutional and statutory provisions by the higher courts. Laws governing pupils, teaching personnel and boards of education will be stressed with particular emphasis on Maine school law. Cr 3.

EDU 680 Staff Development
This course is designed for students in Administration and Instructional Leadership and examines the theory and practice of staff development in schools and other human service settings. Building on current research on adult development, organizational analysis, and school improvement, students will develop an understanding about the structure and process of staff development planning, programming, implementation, and evaluation. A final project applying class learnings to a work setting will be required. Cr 3.

Exceptionality
EXE 601 Educational Programming for Exceptional Children
An in-depth examination of learning, behavior patterns of exceptional students, and service delivery models. The course will include study of the learner's role in school, home, and community. Cr 3.

EXE 642 Oral/Aural Development and Instruction
This course will cover the basic methods of and models for developing speech and auditory skills in hearing impaired students. Information concerning the sequence of phonological development in hearing as well as hearing impaired individuals will be covered. Interpretation of assessment data including both articulation-based and process phonology models will be presented especially as related to development of individualized speech and auditory goals. Integration of speech training in classroom contexts will be emphasized. Cr 3.

EXE 684 Administration in Special Education
A field-based course designed to offer experience in administering special education programs. The course emphasizes the organization and administration of special education programs. Prerequisite: EXE 601 or permission of instructor. Cr 3.

EXE 687 Technology in Special Education and Rehabilitation
This course introduces students to the use of technology in the education and rehabilitation of individuals with special needs. A range of technological systems will be examined from "low tech" devices such as simple switches to computers, adaptive devices, and software appropriate for handicapped individuals. A variety of equipment, materials, hardware, and software will be available for demonstration and student use. Methods and techniques for evaluation and determination of appropriate and inappropriate use of technology will be stressed. Cr 3.

EXEX 613 Curriculum and Instruction for Children with Learning and Behavior Problems
In this course, students will undertake a systematic exploration of effective instructional practices for mildly handicapped children. Topics will include direct instruction, cooperative learning, cognitive approaches to learning problems, as well as a review of exemplary curricular approaches. Students are expected to conduct a variety of classroom application projects and make an in-depth study of several specific approaches. Cr 3.
This second seminar of the Instructional Leadership program builds on the work done in Seminar I. This course will continue to develop each student's inquiry processes-ways to identify, classify, and analyze problems and to create alternatives for them. This course develops another aspect of inquiry-the analysis, understanding and creation of teaching and learning settings (contexts). These contexts then constitute the focus of this course.

**Instructional Leadership**

**EDU 513 Adolescent Literature**
This course is designed for the middle or secondary teacher who wishes to develop a deeper understanding of literature for adolescents and who needs to learn how to help young people read widely. Attention will be given to the dynamics of adolescence, individualizing reading, standards of selection, and creative methods of introducing books. Cr 3.

**EDU 603 Analysis of Teaching**
This course provides opportunity to view teaching from the perspective of selected conceptual frameworks and research findings on the theory and practice of teaching. Analysis of individual teaching behavior is an important aspect of this course. Cr 3.

**EDU 604 Curriculum Development**
This basic curriculum course will provide students with an understanding of what curriculum and curriculum development are. Using collaborative approach, teachers and administrators will plan the design of a curriculum consistent with personal ideals and applicable in a given context. Students will analyze the curriculum in terms of knowledge, skills, learning processes, and affective dimensions. Special emphasis will be given to the processes of curriculum implementation and curriculum evaluation. Cr 3.

**EDU 611 Seminar II: Contexts for Teaching and Learning**
This second seminar of the Instructional Leadership program builds on the work done in Seminar I. This course will continue to develop each student's inquiry processes-ways to identify, classify, and analyze problems and to create alternatives for them. This course develops another aspect of inquiry-the analysis, understanding and creation of teaching and learning settings (contexts). These contexts then constitute the focus of this course. Cr var.

**Professional Development Center**

**EDU 501 International Seminars**
See International Programs section of this catalog

**EDW 472 Newspapers in Education**
See Institutes for Educators section of this catalog

**EPD 585 Action Research Institute**
See Institutes for Educators section of this catalog

**EPD 587 Intervention-Based Assessment in Reading and Writing**
See Institutes for Educators section of this catalog

**EPD 588 Hearing Impairment: Mental Health Needs**
See Institutes for Educators section of this catalog

**EPD 592 Identifying and Nurturing Multiple Talents in Gifted Students**
See Institutes for Educators section of this catalog

**EPD 593 Institute on Gifted Females**
See Institutes for Educators section of this catalog

**EPD 594 Guiding the Gifted Child**
See Institutes for Educators section of this catalog

**EPD 595 Language Development of Special Needs Children**
See Institutes for Educators section of this catalog

**EPD 597 Consulting for the Resource Teacher**
See Institutes for Educators section of this catalog

**EPD 598 Symposium on Writing: Middle School/High School**
See Institutes for Educators section of this catalog

**EPD 530 Storytelling Institute**
See Institutes for Educators section of this catalog

**EPD 589 ESL: Techniques for Conducting Comprehensive Language Assessment**
See Institutes for Educators section of this catalog

**EPD 590 Creating Community in Educational Environments**
See Institutes for Educators section of this catalog

**HRD 645 Gerontology Institute: Death and Bereavement**
See Institutes for Educators section of this catalog

**HRDX 531 Biological and Health-Fitness Aspects of Aging**
See Institutes for Educators section of this catalog

**Reading**

**EDU 510 Developing the Composition**
A course in language arts emphasizing the development of writing proficiencies. Writing growth and its relationship to reading and oral language development is examined. A thorough study of current research and theory relating to the composition process leads to the development of instructional programs that will foster students' growth as writers. Appropriate for elementary teachers; most secondary teachers can be accommodated. Cr 3.

**EDU 514 Teaching Reading in Content Areas**
This course explores techniques and processes that can be applied by content teachers to improve reading ability. Emphasis is on competencies that must be applied by students in the content areas and strategies for teaching them how to apply them—a process of integrating the teaching of reading/study skills while teaching a subject matter. The course has practical application for all classroom teachers in grades 4 through 12. Cr 3.

**EDU 529 Reading Clinic**
Clinical experiences requiring the utilization of diagnostic and prescriptive methods for planning and implementing reading programs for students at different stages of reading progress. Tutoring experiences are augmented and related to the professional literature and research through frequent opportunities to explain and defend observations in seminars. Extensive reading from basic texts, current references, and periodicals is stressed. Emphasis is on the appropriate application of research-validated teaching and diagnostic techniques in supervised settings. Prerequisites: EDU 512 and EDU 513, EDU 530 and EDU 521 or equivalents. Cr 6.

**EDU 621 Reading Remediation**
Conceptualizes reading diagnosis as a process of becoming informed about a learner. Heavy emphasis on developing diagnostic insights and corrective strategies for disabled readers of all ages. Updates traditional approaches and elaborates on current trends from research and practice. Stresses case studies and in-class practice to help teachers implement diagnostic corrective procedures in the classroom. Prerequisite: EDU 520 or equivalent. Cr 3.
Lewiston-Auburn College

MOS 300 Introduction to Organizations and Their Management
Overview of basic managerial processes. Planning, organizing, staffing, financial control, human resource management, and decision making are among the areas covered. Prerequisite: junior standing or consent of the instructor. Cr 3.

MOS 399 MIS in Organizations
An introduction to management information systems in organizations. This course will focus upon providing students with a survey of the kinds of package systems available for use by managers. Included will be a discussion of the questions and processes that managers should ask and use in deciding upon a management information system. Cr 3.

MOS 400 Compensation and Pay
Equity Institute
The purpose of this institute is to provide students with the fundamental concepts and mechanics associated with equitable compensation theory. Topics covered will be current compensation practices, job evaluation practice and job evaluation systems, as well as "hands-on" training and guidance through training sessions in the development and evaluation process. Instruction for this course will be done by representatives from Hubbard and Revo-Cohen, Inc. Cr 3.

Public Policy and Management Program

PPM 603 Advanced Research Methods
Extends the student's understanding of quantitative data analysis and research methods. Expands statistical skills in the areas of multiple regression, significance testing, analysis of variance, and selected other multivariate techniques. Introduces students to a range of data acquisition methods, including on-line searching and database construction and maintenance. Prerequisite: PPM 601 or equivalent introductory statistics course. Cr 3.

PPM 631 Organizational Dynamics
Examines the basic processes that determine how organizations set goals, structure themselves, measure performance, adapt to their environment, manage change and internal conflict, and make decisions. Emphasis is given to techniques of analysis that can be used to understand and manage these various organizational functions. Prerequisite: PPM 630. Cr 3.

School of Applied Science

Applied Immunology
AIM 630 Medical Immunology
This course stresses the medical relevance and application of immunology, both in the laboratory and in the clinic. Specific topics covered include assay formats and design, assay interpretation, new technology and instrumentation, the role of the immune system in protection, the interactions of the immune system with inflammation, as well as the diagnosis, pathologic mechanisms, and treatment of immunodeficiency, autoimmune, and lymphoproliferative diseases. Cr 3.

AIM 631 Medical Immunology Laboratory
AIM 690 Immunology Journal Club/Seminar
The Journal Club is intended to keep the participants current in immunology and to instruct them in the techniques of evaluating scientific literature critically and clearly presenting scientific information. The seminar, directed by faculty members responsible for the corresponding core course material and including outside lecturers from among the affiliates as well as other academic institutions, will provide the student with an opportunity to discuss practical applications of the core lecture material. Cr 1 per semester.

Computer Science

COS 160 Structured Problem Solving: PASCAL
A study of problem-solving techniques and applications using PASCAL. This course is primarily for students with a computer science major or minor or a strong serious interest in computer science. Prerequisite: two years of high school algebra or equivalent. Cr 3.

COS 300-301, 400-401 Cooperative Education in Computer Science
The student has the opportunity to relate academic knowledge to practical experience in a job situation. The University makes arrangements with certain institutions, businesses and industries to employ qualified students for specific jobs for a set time period. Students already employed may qualify. The student's work is ordinarily in a related field, and the work experiences increase in difficulty and responsibility as the student progresses through the sequence of courses. The experiences are approved on a case-by-case basis by the department. Evaluation is done by the employer and a faculty supervisor. Prerequisite: open to qualified students, subject to availability of suitable jobs. Course is graded on a pass-fail basis only. Cr 3.

COS 698 Master's Project
A six-credit project is required of all students. The project must be approved by the computer science faculty in advance. Prerequisite: full graduate standing and faculty approval. Cr 3 or 6.
Engineering
ELE 172 Digital Logic
Introduction to the design of logic systems; combinational and sequential logic: extensive use of SSI and MSI in design of logic systems. Lecture 3 hrs., Lab. 2 hrs. Cr. 4.

Technology
ITP 340 Quality Control Fundamentals
An overview of fundamental concepts and principles of quality control. The course will cover techniques utilized from the simplest products test to process control engineering and will include incoming material control, inspection sampling, and quality control management. The course will cover practical application for installing quality control systems using actual case studies developed by participants. Cr. 3.

ITP 350 Conference Leading
A course in philosophy and techniques of organizing and conducting successful conferences. Each participant will assume the responsibility of planning and leading a simulated conference. Cr. 3.

ITP 370 Job/Work Analysis
The course in job analysis is basic to the functional aspects of work involved in producing goods and services in our economy. It is a first course in applied research, helping the technology major to understand the importance of being methodical in one's study and one's work. There is also emphasis in the course on career development, work design, work ethic and work productivity. A semester project requires students to analyze a job in terms of relevant duties, tasks, job methods and requirements. Cr 3.

ITP 380 Principles of Industrial Management
Fundamental principles of management as applied to business and industrial settings. The functions of management, introduced in ITP 100, will be given broader treatment by considering management of manufacturing firms. Prerequisite: ITP 100. Cr. 3.

ITP 382 CAD/CAM Technology
A study of computer utilization in the areas of designing, engineering, manufacturing, and documenting as they relate to production processes. Emphasis on the utilization of computer-aided drafting and design (CADD) and computer-aided manufacturing (CAM) hardware and software. Lecture and lab. Prerequisite: ITP 281. Cr. 3.

ITT 440 Related Occupational Experiences/Internships
Two options, total credits to be no more than the difference between those granted for ITT 400, and 45 credits.

OPTION NO. 1
This course option is designed to permit attendance at an approved industry-sponsored school or seminar for the purpose of providing the student with advanced related occupational or technical training. Courses provided by organizations such as General Motors Training Centers, or International Typographical Union, qualify under this course option. Cr 1-3.

OPTION NO. 2
Approved employment with a company may qualify a student under this option. Arrangements must be approved by the advisor in advance. The experiences should provide opportunities for updating technical skills and knowledge. Credit will be determined on the basis of one credit for each two full weeks of employment (80 hrs) with a maximum of three credits for each period of approved continuous full-time employment. A daily log, summary report, and evaluation by an industrial supervisor will constitute part of this option. Cr 1-3.

For additional information concerning either option of ITT 440, consult your advisor.

IEV 460 Independent Study in Vocational Education
An opportunity to pursue independently a topic, project, or experiment of interest. Students will prepare a contract or proposal for study to be conducted and, upon completion, submit findings in a scholarly report or other evidence of completeness. Permission of advisor. Cr 3.

IEP 699 Independent Study
IEV 460 Methods and Materials of Instruction in Vocational Education
This course treats the general and specific materials and methods of teaching vocational courses. Deals with both the theoretical and practical aspects. Prerequisites: ITP 370 and IEV 305. Cr 3.

ITTI 440 Related Occupational Experiences
Two options, total credits to be no more than the difference between those granted for ITT 400, and 45 credits.

OPTION NO. 1
This course option is designed to permit attendance at an approved industry-sponsored school or seminar for the purpose of providing the student with advanced related occupational or technical training. Courses provided by organizations such as General Motors Training Centers, or International Typographical Union, qualify under this course option. Cr 1-3.

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Approved employment with a company may qualify a student under this option. Arrangements must be approved by the advisor in advance. The experiences should provide opportunities for updating technical skills and knowledge. Credit will be determined on the basis of one credit for each two full weeks of employment (80 hrs) with a maximum of three credits for each period of approved continuous full-time employment. A daily log, summary report, and evaluation by an industrial supervisor will constitute part of this option.

For additional information concerning either option of ITT 440, consult your adviser.
School of Business, Economics and Management

Accounting
ACC 201 Principles of Financial Accounting
An introduction to accounting principles and concepts. Emphasis is placed on understanding financial statements and the accounting for assets, liabilities, equities, revenue, and expenses. Cr 3.

ACC 202 Principles of Management Accounting
This course is designed for non-accounting majors. It deals with the selection and preparation of information which will serve to support and assist managers in planning and controlling a firm's operations; the emphasis is on information needs for management decisions making. Included are analysis of financial statements, changes in financial position, cost-volume-profit analysis, budgeting, income tax considerations, and quantitative techniques integrated with more traditional approaches. Prerequisite: ACC 201. Cr 3.

ACC 490 Independent Readings and Research in Accounting
Selected topics in the various areas of accounting, auditing, and income taxes may be studied and researched on an independent basis. Prerequisites: senior standing and completion of admission requirements for majors. Cr 1-3.

Undergraduate Business
BUS 280 Legal Environment of Business
This course, an introduction to the study of business law, includes a thorough survey of the preparation for and conduct of a civil lawsuit, a brief discussion of criminal law, and a broad overview of contracts, agency, negotiable instruments, partnerships, corporations, secured transactions, labor law, and bankruptcy. This course is intended to provide a broad overview of business law and the Uniform Commercial Code. Cr 3.

BUS 340 Principles of Management
A comprehensive survey of all phases of management in public and private sectors. The influences of human, social, and political factors are interwoven with the treatment of management's structural and technical processes. Analyses focus on such themes as planning, decision making, organizational design, supervisory skills, communications, and information systems. Prerequisites: ECO 201 and ECO 202, and junior standing. Cr 3.

BUS 450 Business Management and Policy
Administrative practice at the higher levels of business management through case analysis and discussion. The course attempts to coordinate the background of business majors in the formulation and administration of sound business policy. Prerequisites: BUS 320, BUS 340, BUS 360, BUS 371. Cr 3.

BUS 490 Independent Readings and Research
Selected topics in the various areas of accounting, finance, management, and marketing may be studied and researched on an independent basis. Prerequisites: senior standing and permission of the instructor and chair of the department. Cr 1-6.

Graduate Business
MBA 627 Investment Management
A systematic and in-depth treatment of security analysis and portfolio management. The security analysis segment develops E-I-C methodology augmented by deterministic valuation models. A major empirical analysis is carried out in conjunction with the theoretical developments. The portfolio management segment develops Markowitz efficient sets and the subsequent developments as contained in Sharpe-Lintner-Mossin theory. Related readings in Fama-Roberts market efficiency tests are assigned as needed. The empirical analysis component of this segment revolves around generating Markowitz efficient portfolios and measuring beta coefficients. Prerequisite: MBA 620. Cr 3.

MBA 680 Organizational Strategy and Planning
Administrative practice at the higher levels of business management, with major emphasis on long-range executive planning of profit, sales, production, social goals, and objectives, and of strategies and policies to achieve these objectives. Coordinates all executive activities viewed as tools for use in developing administrative competence in the formulation of business policies at the decision-making level. Prerequisite: 21 credits of 600-level MBA courses Cr 3.

MBA 691 Independent Study
Selected topics in the area of Business and/or Administration may be studied and researched on an independent basis. Prerequisites: permission of the instructor and the director of Graduate Programs. Cr 3.

Associate Business
ABU III Principles of Accounting I
An introduction to the accounting cycle, working papers, and financial statements. A practical emphasis on accounting methodology with coverage of inventory control, cash control, depreciation of plant assets and payroll. Cr 3.

ABU II Principles of Accounting II
A study of the procedures of accounting for owner's equity, long-term investments and the cost of manufacturing goods. The proprietorship, partnership, and corporation accounting techniques are developed in a practical approach. Prerequisite: ABU III (not for SBEM baccalaureate students). Cr 3.
ABU 221 Principles of Real Estate
An overview of real estate fundamentals, including rights and interest in land; forms of ownership; contracts; records, and forms; taxes and assessments; appraisals; insurance; brokerage; property management; and land-use control. Cr 3.

ABU 227 Introduction to Stocks and Bonds
Provides the planning and management of investment programs for all types of investors. Evaluates the various media of investments in terms of their risks and profits. The functions of the stock market and its behavior are examined. Prerequisites: ABU 101, ABU 102, ABU 111, ABU 112, MAT 011. Cr 3.

ABU 240 Principles of Management
A comprehensive survey of all phases of the management of industrial and business enterprises. The influence of industrial relations is interspersed with the treatment of management's technical problems. Prerequisites: ABU 101, ABU 102. Cr 3.

ABU 285 ABA Work Internship
This is our student's opportunity to apply their academic training to work experiences in the business world. The student, the SBEM, and an employer make prearranged commitments for a one-semester job in a local business organization. The work must be in an area related to the student's chosen concentration in the ABA program and must be approved in advance by the SBEM Director of Internships. This is open only to second-year students in the ABA Program. ABU 285 may be taken after ABU 285 for a maximum of 6 credits in ABA Internship. Cr 3.

Economics
ECO 201 Principles of Economics I
A theoretical analysis of the basic characteristics, institutions, and operational activities of a modern capitalistic economy which is involved in the transformation of scarce economic resources into the goods and services demanded by consumers. Topics discussed include inflation, unemployment, government monetary and fiscal policy to achieve full employment, and economic growth. Cr 3.

ECO 490 Independent Readings and Research in Economics
Independent study and research of various student-selected areas of economics. Prerequisites: senior standing and a completed independent study form (available from Registrar). Cr 1-3.

School of Nursing

Nursing
NUR 200 Introduction to Professional Nursing
This course introduces the student to historical and contemporary perspectives regarding the nature and scope of professional nursing. It explores the relationship between professional nursing and the broad base of theoretical and empirical knowledge derived from the behavioral and physical sciences and the humanities. It examines the role of the nurse as communication and caregiver with a diverse, multi-cultural population in a variety of settings. Open to any sophomore standing University student. Cr 3.

NUR 304 Transition to Professional Nursing
This course introduces the RN student to the nature and scope of professional nursing. The student studies the theories and concepts that form a basis for professional nursing practice with individuals and families. Nursing process is utilized to define the needs for health promotion, restoration and maintenance for clients at various developmental levels in a variety of settings and in a culturally diverse society. The study of nursing history and the development of nursing theory is initiated. Students use research to develop the role of the professional nurse and to explore family theory, crisis theory, and teaching and learning theory. Legal and ethical issues related to the delivery of health care are discussed. Open to RN or junior standing University students. Prerequisite: NUR 200 or RN license. Cr 5.

NUR 309 Total Health Assessment
This course introduces and develops the knowledge and skills necessary to conduct an in-depth bio-psycho-social-cultural health assessment of well individuals across the life span. Emphasis is placed on data collection through development of communication, interviewing, history-taking and physical examination skills, and data synthesis with identification of nursing diagnoses. Open to RN or junior standing students in the School of Nursing. Permission of the instructor required for non-nursing majors. Cr 3.

NUR 401 Health-Related Research
Introduction to health-related research with an emphasis on understanding the research process and becoming a consumer of research. Application of current research findings to nursing practice is a major component of the course. Prerequisite: Statistics; NUR 305 and NUR 355; or permission of instructor. Cr 3.

NUR 699 Issues in Nursing: Designs for Effective Leadership
This course considers the potential contributions and responsibilities of nurses as consumer advocates in the health care system. Clinical, theoretical, and research concepts are utilized to predict trends, consider possible courses of action, develop grant proposals and design appropriate strategies for change. Cr 3.

Recreation and Leisure Studies
REC 105 Lifeline: Walk/Jog
Walk/Jog is a program designed for the sedentary person who, for one reason or another, is not in good physical condition. This aspect of Lifeline is essentially a routine of walking/jogging, calisthenics, stretching, and relaxation techniques. Exercise begins slowly and progresses each week. At the end of the ten weeks, one may elect to go into the intermediate program. Cr 1.

REC 106 Lifeline: Energy in Motion
Energy in Motion is a free style aerobics program accompanied by contemporary music. The classes provide a variety of movements led by certified aerobic instructors. The program consists of an initial warm-up, floor exercises, cardiovascular conditioning, and a cool down period. Motion is designed to enhance aerobic conditioning, joint flexibility, muscular endurance and relaxation. Cr 1.
REC 108 Lifeline: Aquatics
Aquatics is a cardiovascular exercise program for those who prefer swimming. Non-swimmers may also participate, as many of the exercises can be performed in the shallow end of the pool. A combination warm-up/water calisthenics routine is followed by a peak exercise period where heart rates are elevated to improve cardiorespiratory endurance. The exercise session ends with a cooldown period of slow walking and swimming, and final stretch downs on the pool deck.

REC 109 Lifeline: Weight Training
Lifeline offers a combined weight training/aerobic conditioning program for men and women. The program is designed to teach proper conditioning techniques, increase muscular strength and endurance, increase flexibility, and increase cardiovascular conditioning. Students will utilize the Lifeline Bodyshop facility.

REC 216 Advanced First Aid and Emergency Care
This course will cover the topics prescribed by the American Red Cross in their advanced first aid course, including respiratory emergencies, artificial respiration, wounds, poisoning, water accidents, drugs, burns, emergency childbirth, emergency rescue and transfer, and other topics. Successful completion of the course requirements will lead to advanced Red Cross first aid certification.

REC 219 Personal Fitness
This course is intended to help students understand the basics of health/physical fitness and the importance of fitness as it relates to total lifestyle. In addition to lecture/discussion, each student will be given the opportunity to go through a personal fitness evaluation.

REC 279 Health and Fitness for Older Adults
See Special Programs section of this catalog.

REC 299 Advanced Sailing and Seamanship
The principles of safety, seamanship, and navigation will be the focus of the course, but with additional responsibility for each student. The major differences between the Basic Sailing course and Off-Shore, or the Advanced Sailing course, are in the degree of complexity, responsibility and measurement of accomplishment. Basic ability is presumed in all students in the areas of sail handling and basic dead reckoning navigation. In addition, using both coastal piloting techniques and celestial navigation techniques, students will sharpen and extend their navigation skills. Students will stand four hour watches in responsible roles as navigator and sailing master.

Division of Off-Campus Instruction
FRS 100 Freshman Seminar
An orientation to the University emphasizing its purpose, programs, and services. Strengthening of academic skills, exploring University and student expectations, as well as career planning and enhancement of critical thinking skills are just some of the numerous topics covered in this course. This course may be counted for elective credit only. Enrollment open only to freshman with less than 25 credits.
Registration

General Policies Related to Undergraduate and Graduate Registration

Audits Students may register for courses on a noncredit basis. With a non-credit registration, the student may participate in classwork, but is not required to take examinations. A noncredit registrant should know, however, that state Department of Education do not accept for certification or other purposes any course taken on a noncredit basis. An audit registrant is required to pay full tuition for the course.

Certificate for Teachers Certificates for teaching in Maine are issued upon completion of the necessary requirements in elementary, secondary education, or special fields by the State Department of Education in Augusta. You must contact the Department prior to registration to determine the appropriate selection of courses fulfilling such needs. It is important that each registrant know the grade and level of his or her grade certificate.

Course Cancellation The University reserves the right to cancel courses in the case of low enrollment.

Degree Applications Students who expect to complete associate, baccalaureate, or graduate degree requirements this summer should submit an Application for Degree card. Such cards are available in the Registrar’s Office.

Failure to Withdraw Penalty Failure to submit notice of withdrawal may result in a failing grade. Discussion with faculty members is not proper notification of change. In the case of a student withdrawal after completion of one-third of the course, the student will receive a grade designation to be determined by the instructor.

Grades and Transcripts Grade reports will be mailed to students at their home address by the Registrar at the end of August. These grade reports represent the only notification to students of their performance in given courses.

Students who desire official documentation of work completed during a summer session must complete a Transcript Request form at the Registrar’s Office. Transcripts will be updated with summer session work during the second week of September. Formal requests for transcripts needed before this date will be handled on an individual basis. The fee for a transcript to be used outside the University of Maine System is $3.00 per copy. There is no charge for transcripts sent within the University system.

Independent Study All courses entitled Independent Study require the use of a special advance approval form, available upon request from the Registrar’s Office or the Advising and Academic Information Department. This form must be completed in advance of registration.

Registration (Changes) Students may not add a course after the second class has met. Changes to or from pass/fail, audit, and repeat must be done before the second class meeting. To add or drop a course or make other changes after registration is completed, the student must complete the proper forms at the Registrar’s Office on the Gorham campus or the Registration Services Office on the Portland campus.

Registration for pass/fail, audit, and repeat courses must be declared by the student at the time of registration.

Registration (Late) Students in attendance at the first and/or second class meeting must complete and submit registration forms not later than the second class meeting.

Variable Credits Students wishing to register for variable credit courses must complete a Variable Credit Approval form, obtain proper approval, and specify the credit hours for which they will register.

Maine Immunization Law Current Maine State Law requires all degree students (and non-degree students taking 12 or more credit hours), and who were born on or after January 1, 1957, to show proof of immunization against measles (rubeola), rubella, tetanus, and diphtheria BEFORE the student registers for classes. Any student who has already demonstrated proof of immunization to the University of Southern Maine does NOT need to show proof again.

Undergraduate Registration

Anyone may take courses in the summer, even though they have not been accepted into a degree program. Before registering, students should read carefully the course prerequisites in the course description.

Advising Academic advising, if necessary, is available through the Advising and Academic Information Department. The department provides academic advising to assist students in interpreting University curricula requirements and in making decisions regarding the appropriate selection of courses for which they may register.

Veterans’ services are a responsibility of the department. Advice and certification regarding V.A. benefits, information on work/study, and tutorial assistance is available.

Undergraduate Registration Procedures

Undergraduate Registration (Walk-in) All students taking undergraduate courses may register in person at the Registration Services Office in Payson Smith Hall on the Portland campus or the Registrar’s Office on the Gorham campus. This registration may be made through the second class meeting. Please note the office hours for registration in the Summer Hours, Offices and People section of this catalog.

Undergraduate Registration (Phone-in, using VISA or MasterCard only) Students may register by telephone for undergraduate courses only by calling the Registration Services Office at: 780-4408 or 1-800-492-0748 (within Maine). Please have your card number ready.

Mail-in registrations for undergraduate courses are not accepted.

The Facts
Graduate Registration

Students holding a baccalaureate degree may register for graduate courses (courses with a number of 500 or higher) even though they have not been accepted into a degree program, providing there is space in the course. Exception: Due to national accreditation standards, no MBA graduate courses may be taken by individuals not meeting the "1050 rule." Contact the MBA Program director for details on this restriction (780-4184).

Graduate Registration Procedures

1. Complete registration worksheet.
2. Submit completed form along with proper payment to the appropriate dean or director's office.
3. Submit payment along with incomplete registration worksheet.

An incomplete registration worksheet or form received with partial payment will be returned to the student. Mail-in registrations must be received by the Friday preceding the beginning of each session.

Students who elect to register for a course after the Friday before the session begins must attend the first and/or second class meeting and complete registration forms no later than the second class meeting. 

**Early registration is encouraged to avoid disappointment. Some classes are traditionally filled early.**

Graduate Admission To be admitted to a graduate program, an applicant must have received a baccalaureate degree from an accredited college or university and must show promise of ability to pursue advanced study and research. All applicants, except those for the MBA program, are required to provide the results of their performance on either the Graduate Record Examination or Miller Analogies Test. Applicants for the MBA program should present scores from the Graduate Management Admission Test in lieu of GRE scores or MAT scores.

An application is not considered complete until all the required transcripts, appropriate test scores, and letters of recommendation are on file. All material sent in support of an application for admission becomes the property of USM and will not be returned to the student.

For information regarding admission to any of USM's graduate programs contact:

Office of Graduate Affairs
University of Southern Maine
96 Falmouth Street
Portland, Maine 04103

For more information, contact: Graduate Education, 780-5306; School of Business, Economics and Management, 780-4184; School of Nursing, 780-4130; School of Law, 780-4346.

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**Graduate Registration Worksheet**

*You will receive a course confirmation in the mail within a week after you register.*

Name ________ Last ________ First ________ Middle ________

Social Security Number ________

Home Address ________ Business or Local Address ________

Street ________ City ________ State ________ Zip ________ Telephone ________

Organization or Street ________ City ________ State ________ Zip ________ Telephone ________

**Course Schedule**

<table>
<thead>
<tr>
<th>Department</th>
<th>Number</th>
<th>Section</th>
<th>Session</th>
<th>Pass/Fail</th>
<th>Audit</th>
<th>Credits</th>
<th>Special Fees</th>
</tr>
</thead>
</table>

<p>| | | | | | | | |</p>
<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
</table>

Total credits ________

Registration Processed:

☐ Married ☐ Single

☐ Male ☐ Female

Birthdate ☐ 0-0-0-0

Student Signature

I understand that upon registering for courses, I have incurred a financial obligation to the University of Southern Maine and that refund policies are outlined in the University catalog.

Signature ________ Date ________
Tuition and Fees

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

**Tuition Charges Per Credit Hour**

<table>
<thead>
<tr>
<th>Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>$56.00</td>
</tr>
<tr>
<td>Graduate</td>
<td>$65.00</td>
</tr>
<tr>
<td>Law</td>
<td>$125.00</td>
</tr>
</tbody>
</table>

Some specialized courses require payment of a fee in addition to tuition and are designated in the course schedule. For information, contact the Summer Session office.

**Payment Procedures:**

University charges are due at the time of registration. A $25.00 late fee will be assessed if payment is not received.

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

*Checks* Checks should be made payable to the University of Southern Maine. The student's name and social security number should be shown on the check. If a check is returned for non-payment, a $5.00 fee is charged.

*Credit Cards* The University accepts both MasterCard and Visa for payment of tuition and mandatory fees. No more than $1,000 can be charged each semester and the minimum allowable transaction is $25.00. Room and board charges cannot be paid with a credit card.

*Third Party Payments* The University will bill an employer or agency that guarantees the payment of a student's charges. The employer/agency must provide written payment authorization before the student registers. Conditional payment offers cannot be accepted.

*Senior Citizen Tuition Waiver* Maine residents who are age 65 or over may register for undergraduate courses and have the cost of tuition waived. Permission to enroll is granted on an individual basis if space is available in the course. A Senior Citizen Tuition Waiver must be completed at the time of registration. Proof of age and residence is required.

**Adjustment of Charges**

Students who withdraw are assessed charges in accordance with schedules established by the University of Maine System Board of Trustees. The date the Registrar receives written notification of withdrawal is used when calculating refunds. For more information, please consult the University catalog.

The charges listed above are in effect as of July, 1988. Tuition rates are established by the University of Maine System Board of Trustees. The University reserves the right to adjust these charges to respond to changing costs, state and/or federal legislative action and other matters. Such adjustment may be made any time prior to the date of final registration for a given academic term. A student acknowledges this reservation by applying for admission or registering for courses.
On-Campus Accommodations
Living accommodations for Summer Session participants are available on the Gorham campus during the entire Summer Session program (May 15-August 18.) Rooms may be rented on a nightly basis or for the duration of a summer course. Students who desire accommodations should submit the Housing Reservation Request directly to the Residence Life Office to be certain of room availability. Full payment is required at the time of registration.

Housing rates are provided below. Residence hall furnishings include a bed, desk, study chair, closets, a chest of drawers, and overhead lights. Study lamps are not provided. All bathrooms are the community type and separate for men and women. Single rooms do not have private bathroom facilities. Pets are not allowed in the residence halls.

Health and fire safety regulations prohibit cooking or preparation of meals in residence hall rooms.

Housing Rates
These rates are per person, per day. All room and board payments must be made prior to move-in dates. Residence hall check-out time is 12 noon.

Rate 1 (For those students staying 5 or more consecutive nights)

<table>
<thead>
<tr>
<th></th>
<th>No Linen</th>
<th>Limited Linen*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>$11.25</td>
<td>$12.50</td>
</tr>
<tr>
<td>Double</td>
<td>$9.25</td>
<td>$10.50</td>
</tr>
</tbody>
</table>

Rate 2 (For those students staying less than 5 consecutive nights)

<table>
<thead>
<tr>
<th></th>
<th>No Linen</th>
<th>Limited Linen*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single</td>
<td>$15.00</td>
<td>$16.25</td>
</tr>
<tr>
<td>Double</td>
<td>$13.00</td>
<td>$14.25</td>
</tr>
</tbody>
</table>

* Linen includes 2 sheets, 1 pillow and pillowcase, 1 blanket, 1 face cloth, 3 towels, 1 cup, 1 soap. Linen is available for the entire length of the stay or for the remainder of a person’s stay but is not available on a night by night basis. Linen may be exchanged weekly. Linen is left in the room, beds are unmade.

On-Campus Dining
The University offers meals and/or snacks at reasonable prices on both campuses. The cafeteria on the Portland campus will be open Monday-Friday, 7:30 a.m.-1:30 p.m., May 15 through August 18. The cafeteria on the Gorham campus will be open for breakfast, lunch and dinner, June 11 through August 18. A daily meal plan including breakfast, lunch and dinner can be purchased for $14.50 per day. Individual meals may be purchased as follows: breakfast-$3.65; lunch-$5.40; dinner-$7.75. All meals are served cafeteria style. Weekend meals are not available.

For more information regarding housing or dining service, please contact Residence Life at 780-5240.

Off-Campus Dining, Lodging and Camping
For information regarding off-campus dining, lodging, and camping availability, contact: Maine Publicity Bureau, 142 Free Street, Portland, Maine, 207/772-2811; or the Chamber of Commerce.

1989 Summer Session Housing Reservation Request
(Please print or type all information)

Name __________________________ City __________________________ State/Zip. __________________________

Address_________________________ Telephone (home)_________ (business)_________ Birthdate_________ Soc. Sec. No._________

List any medical considerations that might affect room assignment

Type of room requested: □ single □ double

Would you like a linen package □ yes □ no

Payment: ______ # of (nights/weeks) × ______ rate (daily/weekly) = ______

Total Enclosed ______

Name of preferred roommate (if applicable)________________________ Date of arrival_________ Date of departure_________

Are you participating in an institute? □ yes □ no If so, what is the name of the institute?

Are you registered for a course? □ yes □ no If so, what is the name of the course?

Send reservation request along with payment (make check payable to University of Southern Maine) to:
Office of Residence Life, University of Southern Maine, 100 Upton Hall, 37 College Avenue, Gorham, Me. 04038 (207)780-5240
Campus Resources and Services

Parking
All faculty/staff and summer session student vehicles not previously registered for the 1988-89 academic year must be registered and display a valid decal.

Effective May 15, 1989, the vehicle registration fee will be $3.00. All decals expire August 31, 1989.

Vehicles may be registered at the Business Office, Payson Smith Hall on the Portland campus, and at Police and Safety, Corthell Hall on the Gorham campus.

Bookstore
Both Portland and Gorham campus stores are open from 8:00 a.m. to 4:00 p.m., Monday through Friday. The stores will be open for extended hours at the beginning of several sessions. Please call to check for specific hours.

We will mail textbooks to any student who is unable to obtain textbooks within our regular business hours. There is a small handling charge for this service. Please call the Bookstore (780-4070, Portland or 780-5476, Gorham) to obtain the correct price, tax, and shipping fee, so that you may mail a check before USM Bookstores will ship the textbooks.

Please note: Textbooks for a Gorham campus course are located only in the Gorham Bookcellar, and the Portland course books are only in the bookstore on that campus.

Cash refunds for texts will be made if the following conditions are met:
1. Refunds will be made for a period of one week (5 working days) from the first day of class.
2. If a course is for less than one week, refunds will be made on the first day of class only.
3. All refunds must be accompanied by the cash register receipt and by class registration materials.
4. Books must be in new, resalable condition unless purchased as used.

Library
Portland and Gorham Campuses
Monday-Thursday: 8:00 a.m.-10:00 p.m.
Friday: 8:00 a.m.-4:30 p.m.
Saturday: 8:00 a.m.-4:30 p.m.
Sunday: 12:00 noon-8:00 p.m.

Library Closed
Memorial Day Weekend: May 27, 28, 29
Independence Day: July 4

Media Services
Portland and Gorham Campuses
Monday-Friday: 8:00 a.m.-4:30 p.m.
All services available

Monday-Thursday evenings: as necessary to meet classroom equipment demands.
Weekend and other equipment needs to be filled by prior arrangement.

Health Services
Limited health services are available during the summer months. The Gorham Office is located on the first floor of Upton Hall and the Portland Office is on the first floor of the gymnasium. A nurse practitioner or registered nurse is available from 8:00 a.m.-4:00 p.m., Monday through Friday. There is no physician coverage. A fee for services is charged and individuals are responsible for payment prior to leaving campus. For further information call Gorham, 780-5441 or Portland, 780-4211.

Advising and Academic Information Department
The Advising and Academic Information Department provides academic advising and information services for students who are admitted "with condition," undeclared majors, and non-degree (special) students. Veteran student services and the coordination of services for students who seek assistance with special needs due to a handicapping condition are also responsibilities of the department. For more information contact: Advising and Academic Information Department, 110 Payson Smith Hall, (207)780-4040.

Counseling and Career Development
Through a staff of professional psychologists and counselors, the Counseling and Career Development office assists students with personal and career counseling needs. As part of these services, the office provides testing, career information, and referral as deemed appropriate.

The Department also acts as the coordinating office for internship opportunities related to academic majors. For more information contact: Counseling and Career Development, 120 Payson Smith Hall, 780-4050.

Off-Campus Centers
In its continuing effort to meet the needs of a diverse student population, the Division of Off-Campus Instruction and Academic Support administers centers in Bath-Brunswick, Saco-Biddeford, and Sanford. These centers provide easy geographic access to University courses and services. Various courses that satisfy requirements for many associate and baccalaureate degree programs are offered at a variety of times during the day and evening to accommodate both full- and part-time students. Students may register for courses taught at any location at the center most convenient for the student. Students may also phone in registrations if payment is made by VISA or MasterCard. For more information, contact the center nearest to you.

Bath-Brunswick Center
275 Bath Rd.
Brunswick, Me. 04011
(207)442-7070

Saco-Biddeford Center
Mill 2, Saco Island
Saco, Me. 04072
(207)282-4111

Sanford Center
72 Pleasant Street
Springvale, Me. 04083
(207)324-6012

Financial Aid
USM degree candidates may apply for Guaranteed Student Loans (GSL) to help pay for summer attendance. Applicants must complete both a Financial Aid Form (FAF), to establish need, and separate loan application form. The FAF is available at the Student Financial Aid Office, Corthell Hall, on the Gorham campus; the Advising and Academic Information Department, Payson Smith Hall, on the Portland campus; and at all off-campus centers. Loan applications may be obtained from local lenders (banks, credit unions or savings and loan institutions). Since it takes five to six weeks for an FAF to be processed, students are encouraged to apply by February 24, 1989.

Students who will be completing degree requirements in August or January may be eligible for other types of assistance. For more information, contact the Student Financial Aid Office (780-5250).
Division of Continuing Studies

The Division of Continuing Studies is responsible for the development, coordination, and support of all noncredit programming at USM. Among the units within the Division offering programs during the 1989 Summer Session are the Department of Conferences, the Department of Continuing Education for Nursing and Health Professions, and Lifeline.

The Division awards Continuing Education Units (CEUs) for many courses offered in the various departments. CEUs are a nationally accepted measurement applicable to noncredit courses. Participants may attend many different programs while accumulating a nationally uniform permanent record.

Community Programs

The Department of Community Programs serves all segments of the community with a wide variety of noncredit programs designed for adults who require courses with convenient times, lengths, and locations. Programs are taught by professionals who share their knowledge and skills while providing a practical approach to relevant subjects. The Department offers many certificate programs designed to expand and upgrade professional skills.

The Department of Community Programs is located at 68 High Street. Drop by and we'll be happy to answer your questions about upcoming courses, or call 874-6500. Office hours: 8:00 a.m. to 4:30 p.m.

Contact the Department of Community Programs to register for the following programs.

Art

ANP 121A Watercolor

Wednesdays, beginning April 12
Tuition: $75.00

Learn watercolor without any previous experience. Students will become familiar with materials, color theory, composition and techniques. Painting from both observation and imagination will be encouraged.

Business Ventures

CRC 907 How to Make Money at Home with Computers

Saturday and Sunday, June 17 and 18
Tuition: $95.00

In these seminars, you will get expert advice from an active professional who offers the start-up information you need for this exciting business. Each subject is presented for the beginner as well as the seasoned business professional. Topics include 1) starting a word processing service; 2) computer consulting and software publishing; 3) start up and finance your computer enterprise; and 4) home-based computer business opportunities.

Career Exploration

CRX 110A Being Interviewed: Taming the Terror

Saturday, April 22
Tuition: $30.00

This program will help you practice and build your skills relative to marketing yourself. You will learn how to match your skills to those of the job, look at the interview from the hiring manager's perspective and analyze the purpose behind the questions.

Computer Education Courses

Call Community Programs for more information on the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CRC 101</td>
<td>Introduction to Personal Computers</td>
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<td>CRC 201</td>
<td>Introduction to Disk Operating Systems (DOS)</td>
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<td>CRC 202</td>
<td>Hard Disk Management</td>
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<td>CRC 203</td>
<td>Advanced Disk Operating Systems</td>
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<td>CRC 401</td>
<td>Introduction to Lotus 1-2-3</td>
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<td>CRC 402</td>
<td>Intermediate Lotus 1-2-3</td>
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<td>CRC 403</td>
<td>Lotus 1-2-3 Macros</td>
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<td>CRC 501</td>
<td>Introduction to dBase</td>
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<td>CRC 502</td>
<td>Intermediate dBase</td>
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<td>CRC 503</td>
<td>dBase Programming</td>
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<td>CRC 511</td>
<td>Introduction to R:Base for DOS</td>
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<tr>
<td>CRC 512</td>
<td>Intermediate R:Base for DOS</td>
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<tr>
<td>CRC 907A</td>
<td>How to Make Money at Home with Computers</td>
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<tr>
<td>CCP 503A</td>
<td>Computer Training</td>
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<tr>
<td>CCP 401A</td>
<td>Evaluating Personal Computer Hardware</td>
</tr>
</tbody>
</table>

Language and Culture

LNC 136A The Mountain Kingdom: Nepal and Her Peoples

Monday, April 10
Tuition: $15.00

This slide program will cover the landscapes, cultural practices and daily life and work of the people of Nepal. Information for the potential traveler will be included.

Marine

MAR 104A Sailboat Racing Rules and Tactics

Wednesdays beginning April 26
Tuition: $50.00

Become aware of the rules of the US Yacht Racing Union (USYRU) as they pertain to sailboats and tactical situations on the race course. Basic rules will be addressed. Special emphasis will be given to USYRU appeals to illustrate the interpretation of the rules.
**MAR 106A The Ultimate Whale Watch**

Come aboard for a day of whale watching in mid-June. Besides the excitement of seeing the "gentle giants of the sea," we'll have lectures, videos, music and a whale carving demonstration.

**MAR 107A The Coasting Naturalist Expedition**

Several weeks during May-October

Tuition: $385.00

This course is designed for the beginner to experienced sailor who is interested in learning or improving his or her sailing techniques on a large cruising vessel, and who would also like to integrate this experience with a serious, personal investigation of the coastal Maine ecosystem. This is conducted on the waters of Casco Bay to Damariscove Island over a three-day, two-night period on board the Kimberly Laura, a 31-foot Lord Nelson cutter-rigged sailboat. Special cruises exclusively for teachers will also be offered.

**Music**

**MUS 102A How to Play the Piano Despite Years of Practice**

Wednesdays, beginning April 26

Tuition: $80.00 (Required materials approx. $45.00)

Participants will learn how to understand how music is made so they can make their own. Using a proven method, they will see how to express themselves at the keyboard without time on scales or exercises.

**Personal Growth Skills**

**PGS 138A The Relaxation Workshop**

Tuesdays, beginning April 25

Tuition: $35.00

This workshop will introduce participants to a variety of stress-reduction and relaxation methods. You will learn to use meditation, movement, yoga, breathing, color, music, imagery and biofeedback techniques to help you develop a creative program that suits your own individual needs.

**Professional Power**

**PRP 141A Financial and Legal Tools for Service Providers to the Elderly**

Friday, May 5

Tuition: $65.00

This one-day seminar will focus on practical information to help service providers to the elderly understand the financial and legal contexts in which services are provided and to become more aware of the opportunities and solutions available to older persons and their families.

**For Women**

**WOM 108A Combating the Superwoman Syndrome**

Tuesdays, beginning April 11 and 18

Tuition: $25.00

There are ways to release yourself from the trap of being a superwoman, and this workshop can help you find them. A combination of assessment activities and discussion will be used to help you gain a new perspective. Guided imagery and a new technique called supportive thinking will lead you to discover new alternatives.

**WOM 110A Women's Health: Infertility and Pregnancy Loss**

Saturday, April 22 and 29

Tuition: $40.00

If you suffer from either of these problems or are close to someone who does, this course will familiarize you with the latest thinking about causes and methods of treatment. Become an educated consumer of health services and an active participant in treatment by understanding the appropriate questions to ask your physician, the steps in diagnosis, treatment options available and the risks associated with them.
Special Event

SPC II0A Global Maine Conference
May 24-25

The purpose of the Global Maine Conference will be to explore the question “What is the impact of global change patterns on the social, educational, economic and political systems of Maine?” The intent is to provide practical information and generate insights that will empower the people of Maine to understand and anticipate the effects of global trends on life in Maine. The objective is not simply to react but to take positive and creative actions for accepting the challenges of the future and the opportunities they present. A conference brochure will be available in early April. Call the Community Programs office at 874-6500 for more information.

Lifeline

The USM Lifeline Center for Fitness, Recreation and Rehabilitation takes a comprehensive approach to total fitness through various exercise programs of prevention, intervention, and rehabilitation. Thousands of members of the Greater Portland community participate in a variety of activities ranging from walk/jog to cardiac rehabilitation. Programs are also offered in a variety of recreational activities.

All Lifeline activities are designed to promote positive lifestyle changes through education and exercise. Application to all programs should be made in advance. For further information, call the Lifeline Office at 780-4170.

Continuing Education for Nursing and Health Professions

The Department of Continuing Education for Nursing and Health Professions provides continuing education offerings for health professionals such as nurses, pharmacists, physical therapists, occupational therapists, dieticians, respiratory therapists, and others at locations throughout the state of Maine. Programs are offered using a variety of formats, including workshops, seminars, and evening courses.

Department of Conferences

The primary goal of the Department of Conferences is to provide a forum for qualified resource people to share with others information, develop ideas, upgrade professional skills, and develop a greater understanding of current problems. The Department will provide specialized services to governmental agencies, professional organizations, private business, and community groups in the areas of program design, planning, and development.

The Department offers a total conference planning service. The staff will help in planning a program and its content. They can assist in selection of the following facilities and services: University residence/dining halls; University recreation facilities; cultural resources such as art galleries, summer theater, and concerts in the Greater Portland area; classroom auditorium facilities; referral to local motels for housing during the academic year; and area tourist facilities.

The Department will also assist in promotion and publicity; meeting facilities; registration services; special arrangements, including the selection of resource people; and post-conference evaluations, reports, and financial statements. For more information contact 874-6506.

Department of Continuing Education for Business

The Department provides noncredit courses and seminars designed to meet the training needs of both individuals and organizations, including companies, service groups, government agencies and professional associations. Most courses meet one evening per week for 6-12 weeks; seminars vary from half-day to two day events.

CEB is currently offering certificate programs in management studies, supervision, human resources management, and quality control. Courses are also taught in production and inventory control, executive housekeeping, and occupational safety and health. Seminars on a variety of business-related topics are scheduled throughout the year.

Integrated Management, a 10-day institute for middle-level managers, is offered in the winter semester by CEB and the School of Business.

CEB programs and services are available for on-site delivery to meet specific needs of organizations. Additional information may be obtained by calling CEB at 874-6510.
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   (Bookstore, Dining Center)
2. Alumni House
3. Law School/Sponsored
   Research
4. Luther Bonney Hall (Library)
5. Payson Smith Hall
6. Portland Gymnasium
7. Central Heating Plant
8. Science Building
9. Child Care
10. 92 Bedford Street
11. 94 Bedford Street
12. 118 Bedford Street
13. 120 Bedford Street
14. 7 Chamberlain Avenue
15. 15 Chamberlain Avenue
16. 38 Chamberlain Avenue
17. 86 Winslow Street
   (Powers House)
18. 209 Deering Avenue
19. 228 Deering Avenue
20. 11 Granite Street
21. 39 Exeter Street
22. 45 Exeter Street
23. 47 Exeter Street
24. 55/57 Exeter Street
25. 59/61 Exeter Street
26. 65 Exeter Street
27. 67 Exeter Street
28. 71 Exeter Street
29. 73 Exeter Street
30. 75 Exeter Street
31. 77 Exeter Street
32. 79 Exeter Street
33. 81 Exeter Street
34. 38 Chamberlain Avenue
35. 126 Bedford Street
36. 102 Bedford Street

Parking
P1. Faculty/Staff/Handicap
P2. Student Commuter
P3. Student Commuter/
   Resident/Faculty Staff
P4. Faculty/Staff/Visitor
P5. Faculty/Staff
P6. Faculty/Staff/Visitor
P7. Faculty/Staff
P8. Faculty/Staff
P9. Faculty/Staff
P10. Visitor
Gorham Campus
50. Academy Building
51. Anderson Hall
52. Art Gallery
53. Bailey Hall (Library)
54. Corthell Hall
55. Dickey/Wood Hall
56. Dining Center
57. Industrial Education & Technology
58. Mechanical Maintenance Shop
59. McLellan House
60. Central Heating & Sewerage Plants
61. President's House
62. Russell Hall
63. Robie/Andrews Hall
64. Upton/Hastings Hall (Bookstore)
65. Warren Hill Gym
66. Woodward Hall
67. 19 College Avenue
69. 51 College Avenue
70. 7 College Avenue

Parking
P15. Faculty/Staff
P16. Student Commuter
P17. Faculty/Staff
P18. Visitor
P19. Student Commuter
P20. Faculty/Staff
P21. Faculty/Staff
P22. Student Commuter
P23. Student Resident
P24. Student Resident
P25. Faculty/Staff/Student Resident
P26. Student Resident
P27. Faculty/Staff/Student Resident
P28. Student Resident
P29. Faculty/Staff
P30. Student Commuter/Faculty Staff
P31. Faculty/Staff
P32. Faculty/Staff
P33. Faculty/Staff
P34. Student Resident
The University of Southern Maine is pleased to present its 1989 Summer Session preliminary schedule. The Summer Session is designed to meet the needs of degree candidates, as well as those taking courses for other reasons. For more information regarding the University of Southern Maine and its programs, contact the Advising and Academic Information Department, 780-4040.

Undergraduate Courses
To register for undergraduate courses, contact the Registration Services Office on the Portland campus or the Registrar’s Office in 113 Corbell Hall on the Gorham campus. Students may also register at any of USM’s off-campus centers (Bath: 442-7021; Saco: 282-4111; Sanford: 324-6062). Offices are open Monday through Friday, 8:00 a.m. to 4:30 p.m. Telephone registrations are accepted using MasterCard or Visa. Call 780-4408 or 1-800-492-0748.

Graduate Courses
Students wishing to register for graduate courses must have the approval of the advisor and/or the dean or director in the school/college they wish to take courses. Students may then complete the registration process through the Registration Services Office or the Registrar’s Office. Students interested in graduate education courses must contact the Graduate Education Office located in 118 Bailey Hall on the Gorham campus (780-5306).

Tuition/Fees/Payment
Undergraduate Courses: $56.00 per credit hour
Graduate Courses: $65.00 per credit hour

Payment or arrangements for payment must be made at the time of registration. Please consult the 1988-89 USM catalog for other billing and refund policies.

Accommodations and Dining
Housing on the Gorham campus is available at reasonable rates (S11.25 single or $9.25 double, no linen) beginning May 15. Meal plans are available, or breakfast and lunch may be purchased on an a la carte basis beginning June 11. For more information, contact: Residence Life, 100 Upton Hall, Gorham campus, 780-5240.

Child care services are available. For more information, call 780-4125.

Special Institutes
This summer, the University of Southern Maine will host a variety of special institutes. A few are listed below. For more information, contact the Office of Summer Session, 780-4040.
• Stonecoast Writers’ Conference
• Athletic Training Institute
• Children’s Art Workshop
• High School Computer Seminar
• Children’s Computer Workshop
• Undergraduate Communication Colloquium
• Maine Sailing Adventure
• Sports Psychology Institute
• Summer Study Abroad—courses offered in the Soviet Union, Great Britain and Sweden
• Childhood Psychopathologies Institute
• Health and Fitness for Older Adults Institute
• Workshops for Music Educators: ORFF Certification Level 1
• Jazz Educators; Choral Music; Music for Exceptional Learners

Session Dates
Session 1 May 15–June 30 (7 weeks)
Session 2 May 15–June 9 (4 weeks)
Session 3 June 12–July 7 (4 weeks)
Session 4 July 3–August 11 (6 weeks)
Session 5 July 3–August 11 (6 weeks)
Session 6 July 7–August 1 (4 weeks)
Session 7 Variable

Maine Immunization Law
Current Maine State Law requires all degree students (and non-degree students taking twelve or more credit hours), and who were born on or after January 1, 1957, to show proof of immunization against measles (rubella), rubella, mumps, and varicella before the student registers for classes. Any student who has already demonstrated proof of immunization to the University of Southern Maine does not need to furnish proof again.

Holidays
• May 29 (Memorial Day)
• July 4 (Independence Day celebrated)
<table>
<thead>
<tr>
<th>TOWN COURSE SEC</th>
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**Schedule Legend**

Each course listing contains the following information (refer to header at top of each column): course code, course title, course number, course section; course offering; course title; college; credit hours; time; days.

*P=Portland campus; G=Gorham campus; LB=South Campus; BB=Brattleboro Campus; LA=Lebanon campus X=other campus location.
**Div. of Off-Campus Instruction & Academic Support**

**Off Campus Instruction**

- **P** ENG 401 01 | WRITING BUSINESS COMM
- **P** ENG 401 02 | WRITTEN BUSINESS COMM
- **P** ENG 402 01 | BUSINESS COMM
- **P** ENG 403 01 | DEVELOPMENTAL MATHEMATICS

**Theatre**

- **P** THE 106 01 | INTRODUCTION TO DRAMA
- **P** THE 106 02 | INTRODUCTION TO DRAMA
- **P** THE 219 01 | PUBLIC SPEAKING
- **P** THE 219 02 | PUBLIC SPEAKING
- **P** THE 219F 01 | PUBLIC SPEAKING
- **P** THE 219F 02 | PUBLIC SPEAKING

**Organizational Dynamics**

- **P** EXE 615 01 | DEVELOPMENTAL PROCESS
- **P** EXE 615 02 | DEVELOPMENTAL PROCESS
- **P** EXE 615 03 | DEVELOPMENTAL PROCESS

**School of Applied Science**

**Applied Anthropology**

- **P** AIR 430 01 | MEDICAL ANTHROPOLOGY

**Medical Anthropology**

- **P** AIR 430 01 | MEDICAL ANTHROPOLOGY

**School of Health Professions**

- **P** PUB 202 01 | ATHLETIC TRAINING

**Experiential Learning**

- **P** PUB 202 01 | ATHLETIC TRAINING

**Graduate Education**

**General Education Resources Courses**

- **P** EDU 480 01 | RESEARCH METHODOLOGY
- **P** EDU 480 02 | RESEARCH METHODOLOGY
- **P** EDU 480 03 | RESEARCH METHODOLOGY
- **P** EDU 499 01 | INDEPENDENT STUDY

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