University of Southern Maine Course Catalog and Preliminary Schedule Summer 1988

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## 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>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
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<tr>
<td>May 9-</td>
<td>May 9-</td>
<td>June 13-</td>
<td>June 27-</td>
<td>June 27-</td>
<td>July 18-</td>
<td>Variable Dates</td>
</tr>
<tr>
<td>June 24</td>
<td>June 3</td>
<td>July 8</td>
<td>Aug. 12</td>
<td>Aug. 5</td>
<td>Aug. 12</td>
<td></td>
</tr>
</tbody>
</table>

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

- Sun., May 8: 2:00 p.m.
- Sun., May 13: 2:00 p.m.
- Sun., June 12: 2:00 p.m.
- Sun., June 26: 2:00 p.m.
- Sun., July 17: 2:00 p.m.

### First Day of Classes

- Mon., May 9
- Mon., May 9
- Mon., June 13
- Mon., June 27
- Mon., July 18

### Last Day to ADD or Change Credit or Grade Options*

*As a general rule, students may add classes through the second class meeting

### Last Day to DROP to receive 100% tuition refund

- May 6
- May 6
- June 10
- June 24
- June 24

### Last Day to DROP with no grade notation

- May 13
- May 11
- June 15
- July 1
- June 30
- July 20

### Last Day to WITHDRAW With Grade of 'W'

- May 24
- May 17
- June 21
- July 13
- July 11
- July 26

### Session Ends

- June 24
- June 3
- July 8
- Aug. 12
- Aug. 5
- Aug. 12

### Holidays: University Closed

- Monday, May 30, Memorial Day
- Monday, July 4, Independence Day

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 Nancy Boothby, 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 9,000 students during the regular academic year. The University is accredited by the New England Association of Schools and Colleges. During the summer, over 3,000 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 1988. In addition, unique institutes and programs including the prestigious Stonecoast Writers' Conference, an Elderhostel, a music camp for talented 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 on Mackworth Island in Falmouth and 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 Selections

Summer in Maine—a blend of educational, cultural, and recreational activities.

Summer offers a blend of the educational, cultural, and recreational. Two stage productions are planned by our award-winning theatre department. Poetry readings, music concerts, planetarium shows, art exhibits, and nature walks 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 a plethora of 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 afford 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:

Theatre
A spectacular season that promises to include comedy and musical theatre.

Music
The fourth summer concert series featuring the Southern Maine Concert Band will take place on the Gorham campus, as well as a chamber music series.

Art
USM's Art Gallery will host a special “Drawing Biennial” exhibit in addition to a faculty and student review.

Workshops/Lectures
A variety of workshops will be held on topics of interest to all such as:
- Beginning Basketry
- Advanced Basketry
- Wreathmaking
- Crocheted Christmas Ornaments
- Persian Rug Making
- Needlepoint
- Braided Rugs
- Movement for the Elderly

A lecture series on the People's Republic of China will be held on the Portland campus.

Films
A focus on the nostalgic will make the summer film festival at USM exciting, with features such as Nocturne, Girl Crazy, Key Largo, and Suspicion. A special series for children is also planned.

The Outdoors
For those in love with the outdoors, a series of bird walks, nature walks, and star walks will be hosted free of charge.

Planetarium
It is hoped that 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, photography, and computers
- Weekly films such as Bedknobs and Broomsticks, Pinocchio, The Sword in the Stone, and Dumbo.
- Evening seminars in basketmaking, mask making, 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.
Summer Hours, Offices, and People

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>Richard Sturgeon  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>Helen Parker</td>
</tr>
<tr>
<td>Graduate Education</td>
<td>408 Bailey (Gorham)</td>
<td>780-5306</td>
<td>Betty Lewis</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       Joyce Martin</td>
</tr>
<tr>
<td>Registrar's Office</td>
<td>113 Corthell Hall (Gorham)</td>
<td>780-5230</td>
<td>Steve Rand</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      Sandra Lewis</td>
</tr>
<tr>
<td>Summer Session</td>
<td>106 Payson Smith (Portland) Gorham Campus (after May 9)</td>
<td>780-4076 780-5264</td>
<td>Susan Silvernail</td>
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<tr>
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<tr>
<td>Advising and Academic Information Department</td>
<td>110 Payson Smith</td>
<td>May 9-10</td>
<td>(8:00 a.m.-7:30 p.m.)</td>
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<td>(8:00 a.m.-7:30 p.m.)</td>
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<tr>
<td>Summer Session Office</td>
<td>Gorham Campus</td>
<td>May 9-10</td>
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<td>June 27-28</td>
<td>(8:00 a.m.-7:30 p.m.)</td>
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Special Programs

Institutes for Educators

**Summer Session and The Professional Development Center for the College of Education**

Institute on Identification of the Gifted
EDIS 801-51  
June 27-July 1

This course is for individuals responsible for planning, implementing, and extending procedures for identification of students in programs for the gifted. Topics will include: 1) establishing and articulating identification procedures in each of the categories of giftedness required by the state, 2) selecting and adapting objective and subjective instruments, 3) formulating processes for student continuation or exit from a program/provision, 4) interpreting/meeting the requirements of the Maine state guidelines, and 5) addressing current issues relative to placing students in programs for the gifted. (Graduate credit) Instructor: Susan Tarver

### Health and Fitness for Older Adults 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 health and fitness programs for the elderly and the frail senior adult. Topics will include: 1) common health and fitness problems of older adults; 2) osteoporosis; 3) understanding and managing problems of older adults; 4) recreational and leisure activities for the frail elderly: implications for activity leaders and caregivers; 5) modification and adaptation of facilities and equipment for activity programs; and 6) practical movement-related activities for senior adults. 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 more information and to register, call Summer Session at 780-4076.

**Sports Psychology Institute**

**PSY 400-01**  
June 23-25

This is a two-and-a-half day institute that will examine a number of current issues in sports psychology. Topics include: 1) drugs in sport; 2) psychosocial effects of sport participation on child development; 3) applied sports psychology for the individual and team athlete(s); 4) home court advantage: myth and reality; 5) discussion sessions with practicing sports psychologists; and 6) additional 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.

**Summer Science Symposium for the Classroom Teacher**

**EDIS 801-51**  
June 27-July 1

The Summer Science Symposium offers science teachers opportunity to expand and refine their knowledge of science concepts and to develop practical classroom applications of these concepts. It provides concentration in five science disciplines related to the respective teaching fields of the participants: Biology, Chemistry, Physics, Earth Sciences, and Interdisciplinary Sciences with a Middle School focus.

Each module is staffed by a University of Southern Maine science professor and a public school science teacher/mentor. Each module includes lab demonstrations and field trips where appropriate. (Recertification credit) Instructor: Alan Smith (780-4232)

### Critical Thinking and Performance Processes

**EDIS 795-51**  
June 20-24

This session is intended for classroom teachers who seek: 1) a better understanding of the MEA; 2) classroom strategies for helping students develop the abilities of critical thinking and reading; and, 3) specific procedures to aid students in the demonstration of their acquired knowledge. During this five-day session, the participants will be active learners in large and small group experiences. The course is designed to meet the needs of teachers of grades three through high school. A follow-up session will be scheduled in the fall of 1988. (Recertification credit) Instructor: Edna Smith (780-5310)

**Economic Education Workshop**

**EPDI 529-51**  
June 22-July 8

This course is designed for teachers to develop an understanding of basic economic concepts in order to integrate economic education into their curriculum. No prior knowledge of economics is necessary. Through a self-designed project, the needs of teachers of all grade levels will be addressed. (Inservice graduate credit) Instructor: Richard McKeil, (780-4033)

**Institute in Educational Gerontology: Aging and the Life Review**

**HRD 645-51**  
June 27-July 1

This course examines the process of life review and its role in human aging. The phenomena of memory, imagination and identity in later age will be examined. Implications of Kierkegaard's statement, "we live life forward but understand it backward," will be explored. Participants will develop practical methods of facilitating life review for themselves and older clients. It is important that students register EARLY for this institute. There will be a substantial amount of reading required prior to the first class. Those registering after June 1 must obtain the permission of the instructor. (Graduate credit) Instructor: E. Michael Brady (780-5316)

Each module is staffed by a University of Southern Maine science professor and a public school science teacher/mentor. Each module includes lab demonstrations and field trips where appropriate. (Recertification credit) Instructor: Alan Smith (780-4232)

**Institute on Identification of the Gifted**

**EPD 553-51**  
June 27-July 1

This course is for individuals responsible for planning, implementing, and extending procedures for identification of students in programs for the gifted. Topics will include: 1) establishing and articulating identification procedures in each of the categories of giftedness required by the state, 2) selecting and adapting objective and subjective instruments, 3) formulating processes for student continuation or exit from a program/provision, 4) interpreting/meeting the requirements of the Maine state guidelines, and 5) addressing current issues relative to placing students in programs for the gifted. (Graduate credit) Instructor: Susan Tarver

Each module is staffed by a University of Southern Maine science professor and a public school science teacher/mentor. Each module includes lab demonstrations and field trips where appropriate. (Recertification credit) Instructor: Alan Smith (780-4232)

### Institute in Educational Gerontology: Aging and the Life Review

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Newspapers in Education  
EDW 472-51  
June 27-July 1
This is a practical course for teachers in elementary and middle through high school classrooms to explore ways to use the newspaper in the classroom. Through a hands-on approach in this one-week course, participants will learn how to integrate highly motivating and educational newspaper activities into their classroom curricula. Special emphasis will be given to using newspapers to teach critical thinking and decision making skills within content areas or in an integrated curriculum. Breakout sessions will give participants opportunities to develop newspaper activities to fit students' needs for specific grades or subject areas. (Recertification credit) Instructor: Becky Hayes Boober (289-5982)

Project for the Development of Instructional Support Teams  
EPD 525-51  
June 27-July 15  
July II-29
This project is designed to assist school districts in their preparations to implement Maine's new teacher certification law. Teams of teachers and administrators will expand repertoires of instructional strategies, develop skills for observing teaching and collecting data, practice procedures for conducting instructional conferences and develop the ability to present staff development programs. (Graduate credit) For registration information, call Grant McGiffin at 780-5326.

Southern Maine Writing Project  
EPD 520-51  
June 27-July 15
Affiliated with the National Project Network, SMWP will conduct 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) For information or registration, call George Lyons at 780-5326.

Computers and Education for the Gifted  
EPD 555-51  
July 5-9, II-15
This course is for individuals who work with gifted/talented students (of any age) and who wish to integrate appropriate computer-based learning activities with qualitatively differentiated experiences for these students. Both theory and practical applications will be included in the course. (Graduate credit) Instructor: William Beasley

Hearing Impairment Institute: Oral/Aural Development  
EPD 572-51  
July II-15
Presented by a national faculty at the Governor Baxter School for the Deaf, the 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 the focus. Topics include: interpretation of assessment data, development of individualized speech and auditory goals, and integration of speech training in classroom contexts. (Graduate credit) Instructor: Lynn Schardel (781-3165)

Middle School Institute  
EPD 511-51  
July 17-22
The program's focus is on teaching and knowing the young adolescent with emphasis on how to develop staff communication and skills to provide equality education at this level. The institute encourages school system teams to attend and identify a specific educational project prior to the course. This project will provide the focus for the week's work and be implemented during the next school year. (Graduate credit) Instructor: Cherie Foster (780-5300)

In Celebration of Children's Literature  
EDIS 800-51  
July 13-15
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) Instructor: Joyce Martin (780-5315)
Integrating Curriculum in the Primary Classroom
EDSI 792-5I
July 18-21, 25-28
With a focus on how children learn and grow, this course will explore ways of organizing the K-6 classroom which meets their developmental attributes. Based on his experiences in the British schools, the instructor will explore how to integrate curriculum areas (math, science, language arts, and social studies) without being caught up in the traditional subject barriers. The curriculum, time table, record keeping, adaptability, and organization of the integrated classroom are major topics. (Recertification credit) Instructor: David Townsend, Christ Church College

Whole Language in Early Childhood Classes: PS-1
EDSI 692-5I
July 18-22
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

Storytelling
EPDI 530-5I
July 18-22
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 notion and practice of the child as storyteller. (Inservice graduate credit) Instructor: Ellin Greene

Whole Language Conference
EDSI 787-5I
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 both practitioners already involved in this approach to teaching as well as for participants 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 participants can choose applicable sessions. Fall follow-up day. (Recertification credit) Instructor: Carolyn Holman (780-5081)

Teaching for Social Responsibility
EPDI 538-5I
July 25-29
This institute is designed to prepare K-12 teachers to introduce thinking and decision-making skills using contemporary issues of peace and justice. Topics to be examined include: age-appropriate approaches to teaching about social issues; bias in teaching controversial subjects; cooperation, conflict resolution and negotiation skills; consideration of multiple perspectives on a single issue; and teaching approaches that support student participation and promote the development of an informed social consciousness. Fall follow-up day. (Inservice graduate credit) Instructor: Carol Lynn Davis, 780-5316

Early Childhood Institute:
Observation in the Educational Process
EPDI 541-5I
July 25-29
This course is designed to help early childhood educators refine the ability to observe the behavior of young children and record information about children in the context in which they develop. Students will examine a variety of observational methods used to describe young children and their learning environments. Emphasis will be placed on the matching of an appropriate observation method to different research and practice questions. (Inservice graduate credit) Instructor: Joanne Benn

Moving Toward Whole Language Instruction: Grades 2-4
EDSI 758-5I
August 1-5
Research in language development, reading, and writing has inspired teachers to expand their concept of "literacy." This thinking now supports a major shift toward "process" instruction, especially in language arts. This course will provide a necessary balance between theory and practice to enable the 2nd through 4th grade teacher to plan instruction consistent with whole language theory. (Recertification credit) Instructor: Bonnie Reidman

Childhood Psychopathology Institute
PSY 400-02
August 4-6
This two-and-a-half day workshop will examine current issues in child mental health, including a discussion of topics such as the psychosocial effects of divorce on child development; adolescent anger control training; cognitive-behavioral techniques; childhood firesetting; adolescent sex offenders: assessment and treatment, among others. Intended for teachers, guidance personnel and mental health professionals, this institute will utilize local, regional, and national experts to facilitate a discussion of theory and practice. (Undergraduate credit; Recertification credit) For more information or to register, contact Summer Session at 780-4076.

Arts Education Institute
EPDI 503-5I
August 8-11, 15-18
This program is designed to provide a variety of arts experiences and arts education strategies for teachers of all levels and subjects. The institute offers the opportunity to plan creative interdisciplinary projects using the arts to enrich the classroom environment. The faculty of artists and arts educators collaborate to blend their expertise about using the arts to enhance classroom teaching. Extensive use of the Portland Museum of Art resources is planned. Visiting lecturers will share presentations about model arts programs and the relationship of aesthetics, learning, and human development. Fall follow-up day. (Graduate credit) Instructor: JoAnna Moore (780-5468)

Teaching Strategies for Encouraging the Gifted/Talented
EPDI 554-5I
August 8-12
This one-week institute is for teachers, program coordinators, and others who work with gifted and talented students. The focus of the institute will be on providing educators with very practical techniques for working with these students (within the classroom or through a resource room). Basic theory for using the techniques will also be presented by these nationally recognized experts. (Graduate credit) Instructors: Dorothy Sisk, Hilda Rosselli
Video Production for Teachers:
Intermediate
EDIS 788-51
August 8-12
This course is designed to expand skills of teachers in the use of school video equipment. Camera techniques and editing will be developed through demonstration and hands-on experience. A major focus of the workshop will be exploring effective ways video can be used in classrooms and libraries, with adults or students as producers. (Recertification credit) Instructor: James Coleman

Elderhostel
Week I: July 10-16
Week II: July 17-23
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 $235.00. This includes tuition, room and board for the week (Sunday dinner through Saturday lunch), and the various extracurricular activities available to hostellers. For local Elderhostelers who do not wish to live on campus, the registration fee is $95.00. The program will be held on the Gorham campus.

To register, 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 Falmouth Street, Portland, Me. 04103.

The course offerings for each of the Elderhostel weeks are as follows:

Elderhostel Week I
Abraham Lincoln and Hannibal Hamlin
This course will discuss Lincoln, a figure of intrinsic value and enduring fascination and his vice-president, Hannibal Hamlin, one of Maine's finest statesmen. Why is one immortal and the other forgotten?

Investing in Your Future
This course will examine the functions of the stock market and evaluate the various media of investments in terms of their risks and profits. What is a mutual fund? Is speculation worth the risk?

Republican Motherhood: Women in the American Revolution and the New Nation
Using two prevalent themes, the Bicentennial of the Constitution and women's history, biographical details and generalized material concerning evolving political, economic, and social patterns of women will be examined.

Elderhostel Week II
Basic Personal Accounting/Recordkeeping for the Lay Person
This course offers a basic introduction to accounting and recordkeeping taught in a non-technical fashion. It includes the related topics of income taxes, pensions, business law, and investments.

Exploring Self and Relationships
Through the use of the Myers-Briggs Type Indicator, this course will examine how people interact with each other, covering topics such as the relationship between perception and decision, and the effect of personality on our interactions.

Contemporary Soviet Culture
A combined lecture/slide presentation based on the instructor's personal experiences in Soviet Russia, this course will examine the cultural similarities and differences of five Soviet Republics (Estonia, Russia, Armenia, Georgia, and Azerbaijan).

Field Camps
Geology Field Camp
GEY 350
May 31-July 1
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. The last week of the course, students will travel to the University of Maine at Machias campus to study the Middle Paleozoic volcanic and fossiliferous sedimentary rocks of northern Maine. For more information contact: Stephen Pollock, Department of Geosciences, USM, 37 College Ave., Gorham, ME 04038 (207)780-5351 or the Summer Session office at 780-4076.
Archaeology Field Camp  
GYA 300  
May 23-July 1  
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.

Special Seminar  
Child Abuse/Family Violence Seminar  
June 3-17  
Portland campus  
As a cooperative institute between USM's Public Policy and Management Program and the University of Southern California, the goal of this special topic seminar is to facilitate an effective response to the needs of child abuse and family violence victims, and to assist individuals in making appropriate decisions regarding intervention, referral, and investigation in child abuse cases. The seminar is designed to meet the needs of the specialist, patrol officer, supervisor and juvenile function manager. For more information, contact Summer Session at 780-4076.

Sports Psychology Institute  
June 23-25  
This is a two-and-a-half day institute that will examine a number of current issues in sports psychology. Topics include: 1) drugs in sport; 2) the psychosocial effects of sports participation on child development; 3) applied sports psychology for individual and team athlete(s); 4) home court advantage: myth or reality; 5) discussion sessions with practicing sports psychologists; 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.

Physical Conditioning for the Athlete and Coach  
June 16-17  
This two-day workshop will examine a number of contemporary topics of concern in the physical conditioning of athletes involved in interscholastic or intercollegiate athletics. On June 16, the focus will be on the athlete, with a session in general aerobic conditioning and general weight training being presented by fitness experts. On June 17, the focus shifts to the coach, as well as the athlete, with separate sessions being offered in physical conditioning for basketball, football, baseball, and track and field. Offered by well-known coaches in the four sports, these sessions will consist of lectures, question and answer periods and some practical applications. For more information about this workshop, contact the Summer Session office at 780-4076.

Childhood Psychopathology  
August 4-6  
This two-and-a-half day institute will examine current issues in child mental health, including topics such as the psychosocial effects of divorce on child development; adolescent anger control training; cognitive-behavioral techniques, childhood firesetting, adolescent sex offenders: assessment and treatment; among others. Intended for teachers, guidance personnel and mental health professionals, this institute will utilize local, regional, and national experts to facilitate a discussion of theory and practice. For more information or to register, contact Summer Session at 780-4076.
Health and Fitness for Older Adults Institute

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 the frail senior adult. Topics will include: 1) common health and fitness problems of older adults; 2) osteoporosis; 3) understanding and managing problems of older adults; 4) recreational and leisure activities for the frail elderly: implications for activity leaders and caregivers; 5) modification and adaptation of facilities and equipment for activity programs; and 6) practical movement-related activities for senior adults. 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 docking 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.

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 55-foot schooner named Blackbird. Both Nefertiti and Blackbird are U.S. Coast Guard-documented vessels. Ten sections of “A Maine Sailing Adventure” will be offered this summer and credit is available for an additional fee. For more information contact the Summer Session Office at 780-4076.

Freshman Programs

Great Beginnings August 1-19

The Advising and Academic Information Department and the Division of Off-Campus Instruction offer a program for the new college freshman. In its fourth year, Great Beginnings offers all freshmen the opportunity to get a head start on their academic career by taking two courses, ENG 009, Developmental English, and FRS 100. Freshman Seminar before the start of the fall 1988 semester. Highlights of this year’s program include:

- intensive study in English and the Freshman Seminar, to enable students to meet University requirements in English and to gain 3 elective credits (FRS 100) toward their degree program.
- a team teaching approach to ENG 009 and FRS 100 that provides students with the academic support needed to be successful in their courses.

For More Information

Contact the Advising and Academic Information Department at 780-4040, or the Summer Session office at 780-4076; or write, Advising and Academic Information Department, University of Southern Maine, 96 Falmouth Street, Portland, Maine 04103.

High School Programs

During the 1988 Summer Session, the University of Southern Maine will sponsor several institutes for high school students. Although still in the planning stages at the time of publication of this catalog, these workshops are to be designed for students who will be entering their junior and/or senior years during the fall of 1988. Enrollment for each of these programs will be limited. For more information about any of these programs and the application process, contact the Summer Session Office at 780-4076.

Program Offers

USM Science Seminar

USM will be hosting the third annual Science Seminar for high school students at the Gorham campus, July 10-16. Students will be housed in campus dormitories and take their meals in the campus dining hall.

The major science areas of physics, chemistry, biology, and geosciences are again scheduled. This week-long, intensive study of a specific subject area is designed to enhance and enrich student background in a respective field. In addition to science experiences, students will also come to appreciate campus living and come to make friends with other high school students from around the state. Specific topics presented in each discipline will be described at a later date.

Maximum student enrollment per discipline is set at 16, and early applications and recommendations are suggested. The fee of $150.00 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 Summer Session at 780-4076.

USM Computer Seminar

USM may be sponsoring a week-long computer seminar for high school students at the Gorham campus, July 17-23. As with the Science Seminar, students will be housed in campus dormitories and will eat in the campus dining hall.

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.
1988 Summer Study

During 1988, USM will sponsor or co-sponsor several exciting summer travel study courses. For more information about any of the following programs, contact the Summer Session Office at 780-4076.

In the Soviet Union

*The Economic and Social Systems of the USSR*

*University of Southern Maine*

*June 26-July 10*

This course will be centered around a two-week visit to the Soviet Union during which students will visit the cities of Moscow, Tbilisi, and Leningrad. The objective of the course and trip is to provide students with an understanding of the economic, social, and political institutions of the USSR through lectures, readings, discussions, and visits to the Soviet economic institutions, and meetings with Soviet counterparts. The visit to each city will include a city tour, visits to museums and historic places, evening performances, meetings with various Soviet groups and, inasmuch as is possible, organized around some central economic themes.

Students interested in receiving academic credit will need to fulfill additional requirements associated with the course (an exam over the readings, lectures, etc., for ECO 299; and paper in addition to the exam for ECO 399).

Cost: $2695
Price includes all travel from New York and return, as well as all lodgings (double occupancy) and meals with no taxes or tipping.

For more information, please contact: Professor Frank A. Durgin, University of Southern Maine, School of Business, Economics & Management, 96 Falmouth Street, Portland, ME 04103, (207) 780-4306, or the Summer Session office at 780-4076.

Teaching about Russia and the Soviet Union

*EPDI 561*

*August 4-25*

Academic study and a program of travel create an unusual opportunity for educators to learn about Russia and the Soviet Union through a cultural immersion program. Pre-course reading and lectures at USM provide the background for an uncommon travel opportunity and the basis for the course’s outcome.

In 17 days in the Soviet Union, participants visit major cultural and political centers, travel to varied ethnic areas, and meet Soviet professionals and ordinary people. Through participation in the “Soviet People’s Tour,” each student will enjoy the hospitality of a Soviet host family in their home. For teachers and administrators, the Soviet experience, observation, discussions, and reflections will lead to the development of appropriate classroom materials and lessons.

Cost: contact Diane Barnes at 780-5320 for cost
This price includes tuition for 3 graduate credits and travel

For more information, please contact: Christine Holden, assistant professor, or Diane Barnes, assistant professor, History Department, (207) 780-5320 or 780-5059.

Programs for Health Professionals

The Department of Continuing Education for Nursing and Health Professionals 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
- Eating Disorders
- Near Death Experiences
- Patient Teaching
- Hazards of Immobility
- NCLEX-RN Review

Lifeline

*What is Lifeline All About?*

The University of Southern Maine Lifeline Adult Fitness Program is a comprehensive approach to total fitness through various exercise programs of prevention, intervention, rehabilitation, and recreation/leisure. Thousands of members of the Greater Portland community participate in a variety of activities ranging from Walk/Jog to Cardiac Rehabilitation.

All Lifeline activities are designed to promote positive lifestyle changes through education and exercise. Application to all programs should be made well in advance.
Aerobic Programs
Walk/Jog
10-week sessions, start Monday, July 11
Registration deadline: Friday, June 24
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 11
Registration deadline: Friday, June 24
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. 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 sessions end with a cool-down period of slow walking and swimming, and final stretch downs on the pool deck.

Aerobic Dance
10-week session starts Monday, July 11
Registration Deadline: Friday, June 24
Multiple times/locations
Variable fees
Aerobic Dance is a choreographed exercise program focusing on aerobic conditioning, muscular endurance, postural flexibility, and relaxation. Simple dances ranging from slow stretching warm-ups to strenuous rhythymical routines are followed by mat work to improve muscle tone, strength, and flexibility. Various relaxation techniques are explored at the end of each class.

Energy in Motion
10-week session starts Monday, July 11
Registration deadline: Friday, June 24
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 15
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 19
Tuesdays 5:00-6:15 p.m.
Fee: $48.00
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 7
Tuesdays and Thursdays, 11:00 a.m.-12:00 noon and 1:30-2:30 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 on-going
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 TBA

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
Leisure Learn
6-month or yearly membership
Registration on-going
Fee: 6 months, $80.00; 1 year, $150.00

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.

Eastern Exercise and Relaxation
Wednesdays 7:30-8:30 p.m.
June 9-August II

Yoga
2 sections, beginner and intermediate
Beginners: 6:30-8:30 a.m. and 10:00-noon
Intermediates: 6:30-8:30 p.m.

An art designed to create harmony of mind, body, spirit.

Tai Chi Ch'Uan
Tai Chi Fundamentals: Level I
Yang Style Cong Form: Level II
TBA

Flexibility, strengthening and relaxation program.

Shiatsu
TBA

An art geared to stretching, breathing, exercises, and meditation.

Games by the Sea
June 5
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 31-August 12

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 1988, 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 27-July 29
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 27-July 15
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: 7-11
Dates: July 2-July 15
The study of aquatic life can be both challenging and fascinating. During this two-week workshop students will focus of a wide variety 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 instruc-
tion is also on the agenda of this exciting two-week workshop.

Children's Science Workshop II
Ages: 6-11
Dates: July 18-29
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 5-July 15
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 word processing, 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 18-July 29
This two-week workshop builds upon the Computer Workshop I and will deal with such topics as spreadsheets, more complex word processing, and programming skills. As with the first workshop, the teaching focus of this seminar will be upon the educational applications of computers.
Child Care Services

Day Program
Infant, Toddler and Preschool
Ages: 6 weeks to 6 years
Dates: May 9-September 2
Hours: 7:30 a.m.-5:30 p.m.
Location: Child Care Center (Portland Campus) or High Street Center

Full time, part time and hourly rates available.

Evening Program
Ages: 3 years to 12 years
Dates: May 9-September 2
Hours: 3:00 p.m.-Midnight
Hourly rates
Location: Child Care Center, Portland Campus

Full day, broad-based program providing hiking, crafts, swimming, nature study, sports and the full 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.

For more information, please call USM Child Care Services, 780-4125

Camps
Southern Maine Music Camp
Ages: High School Students
Dates: July 10-July 23

The Southern Maine Music Camp is a two-week concentrated musical experience for high school students. Major ensembles anticipated to be offered this summer will include concert band, jazz band, and choir. In addition, chamber music, basic music theory and history, and music theater may be offered.

Tentative areas of study include: voice, percussion, piano, brass, woodwind, theory and history. Several faculty recitals will be presented and the closing concert will provide an exciting climax to the camp.

SWISH Basketball Camp
Girls' Camp: June 26-July 1
Sr. Boys' Camp: July 3-August 5
Jr. Boys' Camp: August 7-12

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 10-15

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 Janet Willis, former head field hockey coach at South Portland High School. She will be joined by other 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
COED Junior Week (ages 9-11): July 24-29
Boys' Senior Week (ages 14-17): July 17-22

In its 14th 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 3-July 8

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...
Developmental 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 two-year master of arts degree program in public policy and management requires 48 credit hours. The core courses are organized in two strands to 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 offers a challenging educational experience to a selected group of students who are outstanding in their ability, curiosity, creativity, and motivation. The program consists of a series of interdisciplinary courses designed especially for Honors students and taught in small seminar classes, an independent research and writing project under the supervision of a faculty tutor in the student's major department, and an advanced seminar on a topic of contemporary relevance.

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.

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 Personal 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. Intensive hands-on practice will be combined with lecture/discussion, problem-solving exercises, and presentation of a major project related to the participant's field. This multi-faceted approach will enable participants to prepare for the varied demands of an in-house consulting role.

Program content includes classes in word processing, disk operating systems, spreadsheets, databases, programming concepts, communications, and hardware evaluation. Professional development seminars will focus on four major areas: communication skills, consulting skills, training, and systems analysis and planning. 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 874-6500.

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 procedures 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. Sessions begin in August and February. For more information, contact the Community Programs office in Portland, 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 and seminars include law, valuation, and practice. The Center also offers courses in other real estate related topics of interest to the general public, and for continuing education credits. For example, courses in investments, property management, financing, construction, and others are among the offerings.

Real Estate Law

Topics covered: real and personal property; historical background and the estates concept; landlord/tenant; marital property rights; co-ownership; miscellaneous property interests; wills and intestate succession; probate process; deeds, mortgages; the recording system; contracts; brokerage; environmental and land use regulation; Fair Housing laws.

Real Estate Valuation

Topics covered: nature and characteristics of property value; principles and process of valuation; influences of area on value; inspection of building construction features; architectural style and function; comparable sales approach; cost approach; accrued depreciation; neighborhood analysis; land use and planning regulations; development and construction; site analysis and valuation; operating statements and income; multipliers and other comparable units; a professional opinion of value; the appraisal report.

Real Estate Practice

Topics covered: the business organization; the trust account; locating the real estate office; policies and procedures; selecting an affiliation; listing the property; qualifying the buyer; Maine License Law; showing the property; obtaining the offer; presenting the offer; advertising types and terms; Fed. Reg. Fair Housing Act; Truth-in-Lending; mortgages; tax considerations of real estate ownership.

Locations

Classes will be offered at USM, at either the Portland or Gorham campuses and at the Saco Center in Saco for the summer semester, beginning in May, 1988.

Correspondence Courses

The Center for Real Estate Education offers a wide variety of correspondence courses which have been approved for continuing education credit by the Maine Real Estate Commission. The availability of these courses is not limited to just those who wish to obtain continuing education credit, but includes those individuals who have an interest in the subject matter. Contact the Center for Real Estate Education for more details.

Salesperson’s Prelicensing Course

This 7-week course is designed to help people study for the Maine Real Estate Salesperson’s Licensing Examination.

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 title; college; credit hours; time; days; building**; room; instructor; course size; session course is offered.

* P=Portland campus;
* G=Gorham campus;
* 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=Robie/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.
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GEOGRAPHY & ANTHROPOLOGY

G GEO 120J | 01 | LEC | GEOGRAPHY OF MAINE | CAS | 3.0 | 8:15-11:30 | MTH | BAIL | 322 | HODGES F | 3 |

THIS COURSE IS GIVEN MAY 23RD-JULY 1ST

GEOGEOGRAPHIES

P GYE 111K | 01 | LEC | PHYSICAL GEOLOGY | CAS | 3.0 | 7:00-9:40 | E | SCI | 553 | NOVAK I | 1 |

THIS COURSE IS GIVEN MAY 31ST-JULY 1ST

P GEO 100K | 01 | LEC | INTRO TO OCEANOGRAPHY | CAS | 3.0 | 8:15-11:30 | MTH | BAIL | 213 | VOSE M | 2 |

THIS COURSE IS GIVEN JUNE 27TH-AUGUST 12TH

P GEO 321 | 01 | LEC | HAMBERTON IN U.S. HISTORY | CAS | 3.0 | 7:00-9:40 | TTH | LUTH | 503 | HAMERTON A | 1 |

THIS COURSE IS GIVEN JULY 1ST-JULY 2ND

HISTORY

P HTY 1011 | 01 | LEC | WESTERN CIVILIZATION I | CAS | 3.0 | 7:00-9:40 | TTH | LUTH | 302 | COLE P | 1 |

P HTY 1021 | 01 | LEC | WESTERN CIVILIZATION II | CAS | 3.0 | 7:00-9:40 | TTH | LUTH | 302 | COLE P | 1 |

P HTY 1311 | 01 | LEC | U.S. HISTORY TO 1877 | CAS | 3.0 | 7:00-9:40 | MTH | LUTH | 503 | WHITMORE A | 1 |

P HTY 1311 | 02 | LEC | U.S. HISTORY TO 1877 | CAS | 3.0 | 8:15-11:30 | TTH | LUTH | 524 | BARNES D | 5 |

P HTY 1321 | 01 | LEC | U.S. HISTORY SINCE 1877 | CAS | 3.0 | 7:00-9:40 | MTH | LUTH | 503 | WHITMORE A | 1 |

P HTY 244 | 01 | LEC | 20TH CENTURY EUROPE | CAS | 3.0 | 8:15-11:30 | MTH | LUTH | 302 | VENTRESCO F | 6 |

P HTY 300 | 01 | LEC | HISTORIC INTERNSHIP | CAS | 3.0 | A | A | EASTMAN J | 7 |

THIS COURSE IS GIVEN JUNE 27TH-AUGUST 12TH

P HTY 305 | 01 | LEC | HAMILTON & JEFFERSON | CAS | 3.0 | 8:15-11:30 | MTH | LUTH | 503 | HAMILTON J | 2 |

P HTY 321 | 01 | LEC | HISTORY OF MAINE | CAS | 3.0 | 7:00-9:40 | MTH | LUTH | 503 | YORK R | 1 |

P HTY 399 | 01 | LEC | WOMEN IN U.S. HISTORY | CAS | 3.0 | 7:00-9:40 | TTH | LUTH | 523 | EAGAN G | 4 |

P HTY 498 | 01 | LEC | INDEPENDENT STUDY | CAS | 1-15.0 | A | A | TBA | 7 |

P HTY 534 | 01 | LEC | MAINE HISTORY AND TRAVEL | CAS | 3.0 | A | A | YORK R | 7 |

THIS COURSE IS GIVEN JUNE 27TH, JULY 8TH, 15TH (1:00-5:00) AND JUNE 25TH, JULY 9TH, 16TH (8:30-5:00)

MATHEMATICS

G MAC 234 | 01 | LEC | COMP PROG FOR ELEM TEACH | CAS | 3.0 | 7:00-9:40 | E | BAIL | 102 | KRATZER R | 1 |

G MAC 528 | 01 | LEC | COMPUTER PROGRAMMING | CAS | 3.0 | 7:00-9:40 | E | BAIL | 102 | KRATZER R | 1 |

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G MAT 010 | 01 | LEC | ELEMENTARY ALGEBRA | CAS | 3.0 | 7:00-9:40 | E | BAIL | 104 | SOYCHAK A | 1 |

G MAT 010 | 02 | LEC | ELEMENTARY ALGEBRA | CAS | 3.0 | 7:00-9:40 | E | BAIL | 104 | KUMAR D | 4 |

G MAT 011B | 02 | LEC | INTERMEDIATE ALGEBRA | CAS | 3.0 | 7:00-9:40 | E | BAIL | 104 | ESTES R | 1 |

G MAT 011B | 02 | LEC | INTERMEDIATE ALGEBRA | CAS | 3.0 | 7:00-9:40 | E | BAIL | 104 | TBA | 4 |

P MAT 1000 | 01 | LEC | COLLEGE ALGEBRA | CAS | 3.0 | 7:00-9:40 | E | BAIL | 208 | MAINVILLE W | 1 |

P MAT 1000 | 02 | LEC | COLLEGE ALGEBRA | CAS | 3.0 | 7:00-9:40 | TTH | BAIL | 202 | BRUNETTE J | 4 |

P MAT 1000 | 03 | LEC | COLLEGE ALGEBRA | CAS | 3.0 | 8:15-9:45 | MTHMTH | BAIL | 200 | MAINVILLE M | 1 |

P MAT 1040 | 01 | LEC | TOPICS IN MATH I | CAS | 3.0 | 8:15-10:30 | MTHMTH | BAIL | 44 | GUAY M | 7 |

P MAT 1040 | 02 | LEC | TOPICS IN MATH I | CAS | 3.0 | 4:00-6:40 | TTH | BAIL | 209 | MEDICI A | 1 |

P MAT 1100 | 01 | LEC | BUSINESS CALCULUS | CAS | 3.0 | 4:00-6:40 | TTH | BAIL | 202 | IRISH J | 1 |

P MAT 1100 | 02 | LEC | BUSINESS CALCULUS | CAS | 3.0 | 7:00-9:40 | TTH | BAIL | 207 | IRISH J | 4 |

P MAT 1100 | 03 | LEC | BUSINESS CALCULUS | CAS | 3.0 | 8:15-9:45 | MTHMTH | BAIL | 204 | MACDONALD S | 7 |

P MAT 1200 | 01 | LEC | INTRO TO STATISTICS | CAS | 3.0 | 7:00-9:40 | E | BAIL | 209 | VIANA M | 1 |

P MAT 1200 | 02 | LEC | INTRO TO STATISTICS | CAS | 3.0 | 7:00-9:40 | E | BAIL | 204 | VIANA M | 4 |

G MAT 1310 | 01 | LEC | MATH FOR ELEM TEACHERS | CAS | 3.0 | 7:00-9:40 | E | A | SOYCHAK A | 4 |

P MAT 1400 | 01 | LEC | PRE-CALCULUS MATHEMATICS | CAS | 3.0 | 7:00-9:40 | E | BAIL | 204 | TBA | 1 |

P MAT 1400 | 02 | LEC | PRE-CALCULUS MATHEMATICS | CAS | 3.0 | 7:00-9:40 | E | BAIL | 209 | SMALL R | 4 |

P MAT 1520 | 01 | LEC | CALCULUS A | CAS | 4.0 | 8:15-10:30 | MTHMTH | BAIL | 44 | BROWN M | 7 |

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**PREREQUISITE: EDU 620 AND 621**

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**SCHOOL OF APPLIED SCIENCE**

**APPLIED IMMUNOLOGY**

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| * JULY 11TH-SEPTEMBER 17TH. CONTACT LIFELINE AT 780-4170 *
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**DIVISION OF OFF-CAMPUS INSTRUCTION AND ACADEMIC SUPPORT**

| P ENG 009A 01 LEC | DEVELOPMENTAL ENGLISH | DBS 3.0 | 7:00-9:40E TTH | A A | HAMLIN R | 4 |
| P ENG 019 01 LEC | WRITTEN BUSINESS COMM | DBS 3.0 | 7:00-9:40E MM | A A | LEACH T | 4 |
| P MAT 009 01 LEC | DEVELOPMENTAL MATHEMATICS | DBS 3.0 | 7:00-9:40E TTH | A A | TBA | 4 |

**BATH/BRUNSHICK CENTER**

| BB ABU 260 41 LEC | MARKETING | DBS 3.0 | 7:00-9:40E TTH | A A | LEACH T | 7 |
| BB HRD 333J 41 LEC | HUMAN GROWTH & DEVELOPMENT | DBS 3.0 | 7:00-9:40E MM | A A | COOK S | 4 |
| BB MAT 1400 41 LEC | PRE-CALCULUS MATHEMATICS | DBS 3.0 | 7:00-9:40E TTH | A A | TBA | 4 |

**SACO/BIDDEFORD CENTER**

| SB ABU 101 91 LEC | PRINC OF ECONOMICS I | DBS 3.0 | 7:00-9:40E MM | A A | HAMLIN R | 4 |
| SB ABU 111 91 LEC | PRINC OF ACCOUNTING I | DBS 3.0 | 7:00-9:40E MM | A A | PFEIFFER D | 4 |
| SB BIO 101K 91 LEC | BIOLOGICAL FOUNDATIONS | DBS 3.0 | 7:00-9:40E TTH | A A | FINK E | 4 |
| SB ENG 150 91 LEC | MODERN THOUGHT IN DRAMA | DBS 3.0 | 7:00-9:40E MM | A A | HAMLIN R | 4 |
| SB POS 101J 33 LEC | INTRO TO AMER GOVERNMENT | DBS 3.0 | 12:30-3:45 MTW | A A | MOSKINSKY O | 2 |
| SB PSY 102 33 LEC | GENERAL PSYCHOLOGY II | DBS 3.0 | 4:00-6:40 TTH | A A | GAYTON M | 1 |
| SB PSY 224 91 LEC | ADOLESCENT DEVELOPMENT | DBS 3.0 | 7:00-9:40E TTH | A A | TBA | 4 |
| SB SOC 100J 33 LEC | INTRO TO SOCIOLOGY | DBS 3.0 | 7:00-9:40E MM | A A | GIGUERE M | 1 |

**SANFORD CENTER**

| S ABU 111 92 LEC | PRINC OF ACCOUNTING I | DBS 3.0 | 7:00-9:40E MM | A A | CARL J | 1 |
| S ENG 100C 92 LEC | COLLEGE WRITING | DBS 3.0 | 7:00-9:40E MM | A A | STEPHENS H | 1 |
| S MAT 010 92 LEC | ELEMENTARY ALGEBRA | DBS 3.0 | 4:00-6:40 MM | A A | BOSTON R | 1 |
| S POS 101J 32 LEC | INTRO TO AMER GOVERNMENT | DBS 3.0 | 12:30-3:45 MTW | A A | MOSKINSKY O | 2 |
| S PSY 102 32 LEC | GENERAL PSYCHOLOGY II | DBS 3.0 | 4:00-6:40 TTH | A A | GAYTON M | 1 |
| S SOC 100J 32 LEC | INTRO TO SOCIOLOGY | DBS 3.0 | 7:00-9:40E TTH | A A | GIGUERE M | 1 |
| S THE 170F 32 LEC | PUBLIC SPEAKING | DBS 3.0 | 8:15-11:30 MTW | A A | STEELE | 2 |

Some course descriptions were not available at time of publication. Please refer to the USM undergraduate or graduate catalog for course description.
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 111 History of Art I
Examination and discussion of the early periods 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 112 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 101 Approaches to Art
Selected experiences using original works, lecture, panel discussion, slides, films, and other means to confront the student with the significance of the visual arts in human history. The aim of the course is to involve students in direct experiences affecting their own perception of visual form. Cr 3.

ART 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. Students planning to pursue a degree in art must take the Art Core prior to registering for this 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.

ART 412 Visiting Artists Workshop
This course is taught by Rose Marasco, assistant professor of art at USM and two invited visiting artists - Joyce Abrams and Elisa Decker, both New York City based artists. Students will elect to concentrate with one instructor while interacting with the entire group for discussions, critiques, and field trips. Areas of concentration include (but are not limited to): charcoal/pastel/collage; colored pencils/wash or paper; or photography/media. Prerequisites: art core courses and for Photography section, darkroom proficiency. May be taken for teacher recertification credits (4.5) Cr 3.

ART 499 Sculpture: Stacked, Floating and Bound
This course involves an exploration of these three, basically non-sculptural processes within the sculptural framework. We will look at these processes as they do exist in and out of the art tradition, focusing our understanding to those within the tradition while gaining inspiration from that which may be outside it. Cr 3.
**Arts and Sciences**

**ARS 124 Patterns in Comparative Religion**
This course seeks to stimulate a broadened 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 101 Biological Foundations**
An introduction to the areas of current biological interest: molecular and cellular biology, genetics and development, and evolution and population biology. Intended primarily for students seeking a laboratory science to satisfy the Core Curriculum or for those students not intending to take other courses in the Biological Sciences. This course cannot be used as a prerequisite for other biology courses. Cr 3.

**BIO 102 Biological Experiences**
Laboratory studies to complement and illustrate the concepts presented in BIO 101. Prerequisite: BIO 101 or concurrently. Cr 1.

**BIO 105 Elements of Biology**
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 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 281 Microbiology and Human Disease**
Fundamentals of microbiology with emphasis on infectious diseases of people, including bacteria, rickettsia, fungi, viruses, protozoa and helminths. Prerequisites: grade of C or higher in BIO 105, and college chemistry. Cr 3.

**BIO 282 Microbiology and Human Disease Laboratory**
Laboratory techniques in the cultivation, identification and control of microorganisms. Prerequisites: BIO 281 or concurrently. Cr 2.

**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 101 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 hours lecture per week (usually concurrent with CHY 104). Prerequisite: grade of C or better in BIO 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. Not appropriate for science majors, pre-med, pre-vet or pre-dentistry. Cr 3.

**CHY 112 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 BIO 101. Not appropriate for science majors, pre-med, pre-vet or pre-dentistry. Cr 3.

**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 BIO 101. Not appropriate for science majors, pre-med, pre-vet or pre-dentistry. Cr 3.
CHY 115 Principles of Chemistry II
A presentation of topics of chemistry ad-
tional to those presented in CHY 113.
This course is designed to provide a solid
foundation for all further studies in
chemistry and is a prerequisite for all
upper-level chemistry courses. Prere-
quisite: grade of C or better in CHY 113.
Spring. Cr 3.

CHY 116 Lab Techniques II
Laboratory experiments to illustrate the
principles presented in CHY 115 lectures.
One recitation and two laboratory hours
per week. Prerequisite: grade of C or bet­­
Spring. Cr 1

CHY 411-416 Special Topics
Reading and discussion of advanced sub-
jects or instruction in special topics/research. Permission of instructor
required. 6 credits maximum. Cr 1-3.

CHY 490 Senior Research Project
Open to senior majors. Prerequisites in-
clude a 30 GPA in chemistry, completion
of the Analytical and Organic Chemistry
series, and permission of the department.
15 credits maximum. Cr 3-15.

Communication

COM 102 Introduction to
Communication
This course is designed to provide
students with a conceptual framework of
the basic elements of human communica-
tion. Students will examine different
levels of communication analysis, learn
to chart and analyze communication
behavior, and discuss the effects of com-
unication on themselves and others.
Topics discussed will include com-
unication theory, self-concept, interper-
sonal communication, nonverbal
behavior, small group interaction, and
mass communication. Students will be
encouraged to adapt communication prin-
ciples to their various fields of endeavor.
Cr 3.

COM 130 Business Communication
A lecture-discussion course in business
communication, emphasizing industrial,
managerial, and labor communication.
Investigation of theory, models, new,
barriers to communication, and other topics,
including basic methods and techniques of
internal business communication. Cr 3.

COM 171 Interpersonal
Communication
An experiential learning-based course
designed to acquaint the student with the
elements of interpersonal communica-
tion, its basic nature and function. The
course involves a study of the potential
of human communication; with applica-
tions to the problems of misunderstanding
and their remedy. Cr 3.

COM 299 Family Communication
Family relationships that are healthy and
viable, that support satisfying relation-
ships, authentic interaction and confirming
styles of response are the focus of this
course. Perspectives include the family
from a general system view, as a com-
munication 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 Video Production
This course introduces the student to the
technical aspects of video production,
primarily single camera production and
editing techniques. Emphasis is given to
the conceptual and aesthetic reasons that
govern the use of production techniques
in non-fiction and fiction productions.
Students work in production teams
similar to professional situations making
short videotapes. In addition, students
are given a brief history of film, television
and video, with an exposure to industry
and independent production styles. Cr 3.

COM 299 Writing for Media
The focus of the course will be using and
understanding written communication in
a wide variety of mediums. Writing for
Media will deal with how to identify the
best medium for a message and with
concepts for conveying the message us-
ing the chosen medium. The course will
cover the requirements of printed and
electronic media in a broad survey in-
cluding memos, newsletters, reports, pro-
motional materials, advertising copy, and
article writing as well as requirements of
promotional, educational or documentary
scripts for radio, TV or audiovisual pro-
duction. Students will produce written
materials for shorter applications and will
outline ideas for longer, more comp-
licated applications. Cr 3.

COM 340 Small Group
Communication
A discussion-participation course design-
ed 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 in-
dividuals 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 be-
tween film theory and film criticism. Cr 3.

COM 399 Conflict
Conflict is an intrinsic part of living. We
all experience it yet few of us understand
what is really happening, how or why.
This course addresses the nature and pur-
pose of conflict, the cognitive styles and
tactics, and constructive approaches to
fighting. Different theories will be ex-
plored. Exercises, papers and group
discussions will provide opportunities to
apply the concepts to real life concerns.
Cr 3.

COM 399 Women in Management
For both men and women in business,
education, and other work settings. It ex-
plores the changing business and
organizational environment created by the
increase of women in professional and
managerial positions. The course ex-
a mines theoretical concepts pertaining to
women in management. both women and
men who are or aspire to be managers
will benefit from this course. Prere-
quisites: junior standing. 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 stereotypes, 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.

Core Curriculum
COR 118 New Directions in Art and Music
Focuses on art and music from ca. 1920 to the present. Topically arranged classes relate contemporary culture to new developments in the arts such as electronics, computers, and multimedia productions. Students will also acquire a vocabulary for interpreting art and music. Prerequisite: ENG 100C and Skills and 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. Cr 3.

English
ENG 009 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 Cr 3.

ENG 09 Written Business Communication
Training in the writing of effective business reports, letters, and related material. Cr 3.

ENG 100 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 is an integral part of the course; it may not be taken as a waiver examination. Passing the departmental 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 101 for credit. This course cannot be used to satisfy a humanities requirement. Prerequisite: writing proficiency. Cr 3.

ENG 120 Introduction to Literature
A general introduction to the various literary genres — poetry, the short story, drama—which will include a study of critical terminology, close textual reading, and practice in writing. Prerequisite: ENG 100 or 101 or waiver. Cr 3.

ENG 160 Poetry
An intensive course in the close reading of many of the most significant poems in English. Attention will be given to important elements of poetry, including verisonification and the use of poetry written in different periods, early and contemporary, will also be explored. Required of English majors and recommended for all students seeking to understand a principal area of our cultural heritage. Cr 3.

ENG 161 Fiction: The Genre
An intensive course in the close reading of many kinds of fiction, with an emphasis on the tradition of psychological realism. The different styles and approaches to narrative that characterize writing by men and women in different eras, and the qualities that give superior writing its position of esteem in our culture will be studied. Cr 3.

ENG 201 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. Cr 3.

ENG 202 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 Cr 3.

ENG 209 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. Cr 3.

ENG 210 News Writing
This course includes news and feature writing with intensive practice in journalistic-writing techniques, accuracy, judgment, and style. Prerequisite: ENG 100/101. Cr 3.

ENG 220 Ancient Masterpieces
A study of selected major works of classical times which will provide students with a background for understanding the most influential books of our culture. Included are Homer, Plato, Greek dramas, Virgil. HON 101 The Ancient World satisfies the English Department requirement for this course. Cr 3.

ENG 261 Shakespeare II
This course will cover a representative selection of comedies, tragedies and romances. Cr 3.

ENG 280 American Renaissance
After briefly tracing Puritan culture, its decline, and its replacement by the bourgeois spirit of Franklin, this course examines the Transcendentalist Emerson’s and Thoreau’s discovery of spirit in nature, Hawthorne’s and Melville’s reaffirmation of good-evil dualism and probing of eternal verities, Whitman’s expansive affirmation of American hope, and Emily Dickinson’s searching uncertainties. Together, they constitute a major period or movement in American literature, one marked by the symbolic treatment of American materials. Cr 3.
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. Cr 3.

ENG 302 Fiction Workshop
An advanced course requiring the completion of short stories or a substantial part of a novel. This course is part of the Stonecoast Writers’ Conference. Cr 3.

ENG 303 Poetry Workshop
A course for advanced students who, after experimenting with different approaches and styles, are developing their own themes and voices as poets. Work toward a completed chapbook-length manuscript of high-quality work will be the basis for the course grade. This course is part of the Stonecoast Writers’ Conference. Cr 3.

ENG 304 Writing the First Novel
According to William Carlos Williams, a short story is about one thing; a novel is about many related things. This workshop is for writers whose fiction requires the space and scope of the novel form, and 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. Cr 3.

ENG 327 Modern Short Story
This course is an intensive study of several short story collections by such modern and contemporary masters of the short story as Thomas Mann, Isaac Babel, Virginia Woolf, William Trevor, Raymond Carver and Alice Monroe. Students are expected to write short papers (personal essays) on approximately five of the six writers considered in the course. Lectures will focus on structure, style, content and the more elusive issues of literacy value and appreciation. Cr 3.

ENG 375 The Victorian Novel
This course will view the Victorian novel in terms of its relation to its neoclassic and Romantic predecessors on one hand and to its modern successors on the other. Classes will combine lecture and discussion. Requirements for the course will include one short paper on a topic of the student’s choice and a longer paper due at the end of the term. The topic for the longer paper will be chosen from a short list compiled by the instructor. Novels will include Jane Austen’s Emma, Emily Bronte’s Wuthering Heights, Charlotte Bronte’s Jane Eyre, Dicken’s Great Expectations, Thomas Hardy’s Jude the Obscure, and Ford Madox Ford’s The Good Soldier. 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.

Foreign Languages
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 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 with tapes is required (for two additional credits). 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. Cr 6. (With lab. Cr 8.)

SPA 299 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.)

Classics
CLA 299 Women in Antiquity
This course will study the roles of women in the ancient Mediterranean world. The debate over the existence of matriarchal and matrilineal societies will be examined as will the societal attitudes toward women as expressed in the literature of patriarchal Greece. Cr 3.
Geography and Anthropology

GEO 120 Geography of Maine
This course will examine Maine as a geographic region. Physical and cultural attributes of the state will be analyzed. Political, economic and demographic factors will be emphasized in viewing the assets and problems of the Maine environment, and in planning Maine's future. No prerequisites. Offered each semester. 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 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. Cr 6.

Geosciences

GEY 350 Geological Field Methods
A course in geological field methods intended to introduce to the student the tools and practical techniques used in collecting, compiling, and analyzing geological data. Students will have assignments in the igneous/metamorphic and surficial terrain of southern coastal Maine and sedimentary and volcanic terrain in eastern coastal Maine. Summer. Five weeks. Prerequisites: GEY 112 and GEY 113, 114. GEY 203, GEY 301. Recommended: GEY 302, GEY 303, GEY 202. Cr 3.

OCE 100 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 101 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 101 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 institutions it bequeathed to the modern world. The Renaissance and Reformation and the rise of the great nation-states are studied. Throughout the course important individuals are considered such as Alexander the Great, Caesar, Charlemagne, Michelangelo, and Elizabeth I. The course also introduces students to historical method. Cr 3.

HTY 102 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 131 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 132 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 244 20th Century Europe
An intensive survey of European developments in the 20th century. The course deals with such intellectual trends as the revolt against positivism, Freudian psychology, expressionism and surrealism in the arts as well as with such phenomena as totalitarianism in its various forms (Nazism, Fascism, Soviet Communism). World Wars I and II and the post-1945 evolution of Europe are thoroughly analyzed. Prerequisite: HTY 102 or permission. Cr 3.
HTY 300 History Internship
Professional experience in one of a variety of positions in public and private institutions which utilize the knowledge and research skills of historians. Students work one day per week, keep a journal, write an evaluation, and are visited on the job by a faculty member. Open to selected students; see department chair for details. Graded pass/fail, so does not count for major credit. Can be taken twice Cr 3.

HTY 305 Hamilton and Jefferson
A study of Hamilton and Jefferson including biographical information and the Jefferson-Hamilton political dichotomy and its subsequent influence. Following this, the course will present a general analysis of social, intellectual, political, economic, and diplomatic problems facing the "New Nation" between 1789-1815. Prerequisite: HTY 131 or permission. Cr 3.

HTY 321 History of Maine
A survey of Maine's social, economic, and political life from exploration and early settlement to the present. Cr 3.

HTY 399 History of Women in the United States
This course is a chronological survey of the evolving role of women within the development of the United States from the colonial period to the present. Cr 3.

HTY 498 Independent Study in History
To provide juniors and seniors who have demonstrated critical and analytical capability an opportunity to pursue a project independently, charting a course and exploring an area of interest within their major field, bearing upon it previous course experiences, and emerging with an intellectually sound, coherent synthesis reflecting a high caliber of performance. Prerequisite: permission. Cr 1-3.

HTY 534 Maine History and Travel
This course provides an opportunity to pursue independent study in Maine history (especially southern Maine) since 1820. There will be discussions, oral reports and field trips to a variety of sites located in easy range of USM. Cr 3.

Mathematics

MAC 234 Computer Programming for Elementary Teachers
The course introduces the elementary education major to programming techniques and applications using the BASIC language. No programming skills will be assumed. Prerequisite: MAT 131. Cr 3.

MAC 528 Computer Programming I
Programming techniques employing BASIC and FORTRAN languages. Applications will be primarily from elementary school mathematics topics and statistics. Cr 3.

MAT 009 Developmental Mathematics
A review of fundamental topics of arithmetic needed prior to a study of algebra. Topics include properties of whole numbers, place value, perimeter, area, volume, average, percent, graphs, proportion, exponents, solving word problems and equations. Credit earned in MAT 009 does not apply or accumulate toward any degree program at the University of Southern Maine. Cr 3.

Note: Credits earned for MAT 010 and MAT 011 will not count towards fulfilling a baccalaureate degree.

MAT 010 Elementary Algebra
The first course of a two-course sequence designed for students who are deficient in high school algebra. Topics covered include number systems, functions, graphs, the solution of equations, and the solution of problems with a business orientation. No prerequisites. Cr 3.

MAT 011 Intermediate Algebra
A continuation of MAT 010. Prerequisite: MAT 010 or one year of high school algebra. Cr 3.

MAT 100 College Algebra
The real number system, algebraic operations, sets, equations, inequalities and their graphs, functions and relations, quadratic functions, exponential and logarithmic functions, theory of equations, systems of equations, permutations, combinations, probability, sequences and series, matrices and determinants, and mathematical induction. Prerequisite: two years high school algebra. Cr 3.

MAT 104 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 110 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 120 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 131 Number Systems for Elementary Teachers
This is the first course in a three-course sequence in mathematics recommended by the committee on the Undergraduate Mathematics Program of the Mathematical Association of American 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 140 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.

MAT 152 Calculus A
This is the first of a sequence of three basic calculus courses covering functions of one or more variables, graphs, limits, derivatives, integrals, optimization, infinite series, vectors, and various applications. Calculus A provides an introduction to the differential and integral calculus of functions of one variable. Prerequisites: two years of high school algebra plus geometry and trigonometry, or MAT 140. Cr 4.

MAT 153 Calculus B
A continuation of Calculus A. Calculus B will usually include infinite series and an introduction to vectors. Prerequisite: MAT 152. Cr 4.

MAT 211 Probability
Common probability laws and distributions of discrete and continuous random variables; matrix operations and applications to probability. Prerequisite: MAT 110 or MAT 152. Cr 3.
MAT 212 Statistics
Sampling distributions; estimation; hypothesis testing; introduction to regression analysis and analysis of variance. Applications primarily in business and economics. Prerequisite: MAT 211. Cr 3.

MAT 252 Calculus C
Multivariate calculus and vector calculus. Prerequisite: MAT 153. Cr 4.

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 599 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 cycles 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 Junior High/Middle School Music Workshop
This course will help the student develop techniques and lesson planning strategies which produce cognitive and musical growth using traditional and unconventional music with the traditional activities of singing, playing, listening, moving, reading and creating. Included will be such topics as specific lessons and techniques for developing your own lessons for all style periods, information about electronic music and how it can be used in the classroom, a learning sequence for music reading that speeds learning, swing choir techniques and handling the changing voice in the classroom and the rehearsal. Cr 2.

MUE 599 Instrumental Methods: Jazz
This is an intensive one-week course in how to teach jazz improvisation, the organization of jazz ensembles, rehearsal techniques, and literature selection. Cr 3.

MUS 100 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 110 Fundamentals of Music
A background study of concepts and skills essential to an intelligent reading of music. The development of natural music abilities through participating in singing, rhythmic activities, and instrumental work. An appreciation of music through awareness of basic structures. Open to all students. Cr 3.

MUS 255 Guitar
This course offers an introduction to basic guitar skills. Emphasis is placed on skills which lead to playing effective accompaniments such as strumming, finger picking and chordal techniques. Recommended for beginners and low intermediates. Cr 1.

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

MUS 499 01 Woodwind Repair Workshop
A course for the public school teacher and practicing musician to prepare him or her to handle minimal maintenance and standard repair emergencies of woodwind instruments. Participants will be required to have or purchase a small set of repair tools. Cr 3.

Philosophy

PHI 102 Introduction to Philosophy: The Quest for Certainty
Philosophy has often been defined as the attempt to become aware of the hidden assumptions we make in our everyday outlooks on life. The present course will deal with one of the most pervasive of these assumptions—the thesis that human beings should pursue certainty and objectivity at any price. The history of philosophy will be utilized to trace and to criticize the identification of all true knowledge with certainty. Questions will be raised as to whether the quest for certainty is either feasible or beneficial to the human person. An analysis of some 20th-century alternatives, including existentialism and pragmatism, will be undertaken. Cr 3.

PHI 103 Introduction to Philosophy: Human Alienation
Why does modern man picture himself as alienated from nature and his fellow man? How did the problem of alienation come about? What possibilities exist for overcoming it? This course will deal with these issues and attempt to suggest viable alternatives. Cr 3.
Political Behavior

Political Science

POS 101 Introduction to American Government
This course focuses on the political institutions, processes, behavior, and problems of government in the United States. The national government is emphasized. Key topics include: the Constitution, Supreme Court, Congress, Presidency, political parties, public opinion, and interest groups. Cr 4.

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

POS 201 Women and Politics
An introduction to the way gender affects political behavior. Special attention will be given to the social, psychological, and legal factors which, over the years, have inhibited women from engaging in full-scale political activity. Special consideration will also be given to the way the women's movement and the ideas of feminism have encouraged growing rates of political participation by women. The course will include a thorough review of the different behavior patterns of women and men in politics. Cr 3.

Psychology

PSY 101 General Psychology I
An introduction to the study of behavior as a natural science. Among the topics covered are: method of injury, 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 201 Statistics in Psychology
A general introduction to the techniques of descriptive, predictive, and inferential statistics. Emphasis is placed on measures of central tendency and variability, correlation, hypothesis testing, and simple analysis of variance. Prerequisites: PSY 101 and MAT 100 or permission of the instructor. Cr 3.

PSY 224 Adolescent Development
A systematic study of the behavioral and psychological development of the adolescent. The adolescent personality and problems of adjustment in relation to the family, the school and the community. Prerequisites: PSY 101 and 102. Cr 3.

PSY 232 Psychology of Adjustment
A study of the development of personality patterns, modes of behavior, life styles, and coping mechanisms considered normal in this society. Consideration of their value to individual functioning. Prerequisites: PSY 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 400 01 Sports Psychology Institute
See Special Programs section of this catalog.

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

Sociology

SOC 100 Introduction to Sociology
The fundamental concepts, principles, and methods of sociology; analyzes the influence of social and cultural factors upon human behavior; evaluates effect of group processes, social classes, stratification, and basic institutions on contemporary society. Cr 3.

SOC 200 Social Problems
Application of a sociological frame of reference to selected contemporary issues. Guides the student 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 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. This course is also listed as CRM 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. Cr 3.

SOC 380 Sociology of Violence
This course will investigate the socio-cultural 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.
Social Work
SWO 101 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
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.

Theatre
THE 101 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 120 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, creative, and technical abilities. Course utilizes movement, sensitivity, mime, and improvisational exercises. Cr 3.

THE 121 Acting II—Fundamentals of Acting: Scene Work
This is a practical course designed to introduce the student to basic skills of acting through stage movement, projection, characterization and scene work. Emphasis made on internal preparation by developing a role and on external techniques for projecting that role. Cr 3.

THE 170 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 conception, analysis, structure, and modes of proof. Cr 3.

THE 399 European Drama:
1850-Present
This course is a lecture-discussion course covering the period 1850 to the present. This course will address most of the influential dramas of that period. Cr 3.

Women's Studies
WST 320 Earlier Women Writers
This course will introduce the student to a wealth of major works by women writers. The purpose of the course is to examine selected texts as they reflected the demands of the male-dominated world of publishing and to examine those same texts as models of resistance to that world. Texts include Emma by Jane Austen, Agnes Grey by Anne Bronte and Jane Eyre by Charlotte Bronte. 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. Prerequisite: 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 curriculum. 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, filmstrips, and contemporary language art books for the elementary school. Cr 3.

EDU 321 Developmental Reading I
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 322 Remedial Reading
The course presents typical reading disabilities, including methods for diagnosing and planning corrective strategies. Consideration is given to methods and techniques appropriate for general classroom use. Prerequisite: a basic course in reading. 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.
HRD 333 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.

HRDX 299 Adult Learning and Development
The theory and practice of adult learning and adult development are explored through group participation, interaction and individual interpretation. Characteristics of adults as learners, life cycle stages, transitions, learning styles and self-evaluation of competencies are among the topics to be addressed. 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 242 Experiential Education—The Outward Bound Experience—Hurricane Island Outward Bound School (Summer)
The course has two major parts: (1) training period and (2) final expedition. During the training period students are instructed and participate in sail theory, navigation, seamanship, first aid, rock climbing, camping skills and environmental awareness. The final expedition is designed to allow the student an opportunity to demonstrate the application of each newly learned skill. All students will participate in a solo, (an experience of isolation in a natural environment, designed for self reflection.) In addition, the mission of Outward Bound is to develop respect for self, care for others, responsibility to the community and sensitivity to the environment. Fee course. 26-day program. Cr 6.

PHE 343 Experiential Education—The Outward Bound Experience—Hurricane Island Outward Bound School (Summer)
The course has two major parts: (1) training period and (2) final expedition. During the training period students are instructed and participate in sail theory, navigation, seamanship, first aid, rock climbing, camping skills and environmental awareness. The final expedition is designed to allow the student an opportunity to demonstrate the application of each newly learned skill. All students will participate in a solo, (an experience of isolation in a natural environment, designed for self reflection.) In addition, the mission of Outward Bound is to develop respect for self, care for others, responsibility to the community and sensitivity to the environment. Fee course. 26-day program. Cr 6.

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 Assessment of Reading
The course addresses the issues of evaluation from the perspective of the reading-oriented educator and practitioner, including the basic concepts of measurement that must be mastered in understanding the language and science of evaluation. An additional goal is to explore issues and problems of particular concern to reading specialists, including evaluation of the reading curriculum, appropriate and inappropriate use of testing instruments, test validity, program validity, test reporting, competency testing and other issues of concern to the field of reading. Cr 3.

Human Resource
HRD 502 The Family: Implications for Educators
This course is designed to review selected topics in the area of family life that are relevant to educators. The course will provide a multidisciplinary overview of major theories of family behavior, precursors to marital and family life, and the variability of family life across the life span. Consideration will be given to such issues as parenting styles, sibling relationships, effects of divorce, single-parent families, blended families, family violence, and substance abuse, abuse, and dependence within the family. Cr 3.

HRD 604 Life Span Development I
Examines the processes underlying growth, development and behavioral changes of humans from conception through adolescence. The interaction of biological, cognitive, and psychological development during these earlier stages of the life span. Cr 3.

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 619 Seminar in Rehabilitation
This course is designed for advanced students in rehabilitation and for practicing rehabilitation counselors. The seminar provides an overview of rehabilitation practice, with an emphasis on problematical issues. Topics may include casework management, vocational evaluation, administrative issues, and utilization of community resources. Prerequisite: permission of the instructor. 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 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. Prerequisite: HRD 626 or equivalent. Cr 3.

HRD 633 Managing Adult Education and Human Resource Development
This course examines the administrative and leadership skills necessary for the development and management of units such as adult education centers, continuing education offices, and training and staff development departments in profit and nonprofit organizations. Particular attention is given to the development of mission statements, the use of advisory boards, community needs assessment approaches, developing goals and objectives, program development, personnel management, and the development of a management style. Cr 3.

HRD 645 Gerontology and Adult Education: A Summer Institute
See Institutes for Educators section of this catalog.

HRD 655 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 670 Career Development and Occupational/Educational Information
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 673 Perspectives on Chemical Dependency
This course will focus on the overall dynamics of chemical dependency and will serve as an introduction to understanding the various stages, processes, and effects of such additions. Specific topics will include social and psychological dynamics of chemical dependence and co-dependency, including family, peers, and co-workers. The roles which professional educators, human service workers, and other social helpers play in prevention, early intervention, and the various approaches to recovery and aftercare will be considered in depth. Prerequisites: None. 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 690 Individual Counseling Practicum
This course is an intensive supervised experience in applying professional knowledge and skills to the practice of counseling with individuals. Role playing, video tapes, audio tapes and demonstrations are used in helping each student develop an integrated counseling style. Prerequisite: approval of the supervising professor. Cr 3.
HRDX 614 Use of Vocational Evaluation in Rehabilitation Counseling

This course is designed to enhance the effective use of vocational evaluation in rehabilitation planning with emphasis on the role of the rehabilitation counselor. Client selection, formulation of referral questions, critique of evaluation results and the use of the evaluation report for planning are topics to be discussed. The class will also examine the fundamentals of evaluation tools and techniques such as psychometric tests, work samples, job analysis, situational assessments and behavioral observations. Field experiences and classroom review of selected evaluation procedures will be used.

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.

HRDX 696 Counselor Supervision

This course is designed to assist professionals who are responsible for the supervision of counselors in various settings. Both clinical and program/administrative supervision will be addressed. Competencies will focus on the knowledge base, intervention techniques and human interaction skills needed to provide quality supervision.

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.

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.
EXE 620 Learning Disabilities—Theory and Practice
An examination of the nature and characteristics of children with learning disabilities. The course will include the study of specific learning disabilities encountered in children, historical perspectives and future trends; and the roles of educators, parents, and auxiliary personnel in diagnosis, prevention, and remediation. Cr 3.

EXE 622 Advanced Methods—Learning Disabilities
This course will focus on diagnostic techniques and remedial strategies in working with children with learning disabilities. Assessment techniques, curricular strategies, and prescriptive approaches will be studied with a focus on prevention and remediation of learning disabilities. Cr 3.

EXE 648 Curriculum for the Hearing Impaired
This course is designed to prepare teachers of the hearing impaired to develop, design, adapt, and implement developmental curriculum approaches and materials in classrooms for the hearing impaired. The course will cover the relationship of cognitive and conceptual development to curriculum procedures and choice of materials. Selection and adaptation of materials (especially in content areas) will be covered as well as adaptation for mainstreamed students. Techniques for integrating language and speech instruction in curriculum areas will also be covered. Cr 3.

EXE 653 Assessment in Special Education
Numerous tests in the areas of intelligence achievement, perceptual motor skills, adaptive behavior, and behavior will be examined. Students will work with children in their area of specialization. The course emphasizes assessment, teaching, and development of educational programs and strategies. Cr 3.

EXE 664 Gifted Students in Special Populations
This course is for individuals responsible for identifying and serving gifted students from special populations. These populations include underachievers, females, culturally diverse and/or economically deprived, rural isolated, bilingual, artistic, creative, impaired, and highly gifted. Cr 3.

EXE 682 Special Education Law; Conflict and Resolution
Laws relating to the education of exceptional students and recent judicial decisions will be discussed. Methods of conflict resolution, including mediation, will be presented. 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.

EDU 603 Analysis of Teaching
This course provides opportunity to view teaching from the perspective of selected conceptual frameworks and research findings in 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 teachers and school and central office administrators with an understanding of what curriculum and curriculum development are. The perspective of this class will differ with some of the existing curriculum and curriculum development concepts presently in vogue in schools. The perspective emphasizes the realities of present classroom conditions but pushes for concepts and processes that will develop a general common education for all students. Cr 3.
EDU 610 Seminar I: Critical Issues in Teaching and Learning
As the initial course of the Instructional Leadership Program, this seminar provides grounding and direction for a spiral of learning to continue throughout the program. It draws on direct and observed experience of participants, as well as on the literature of theory, research, and practice, to explore critical issues in teaching and learning. It aims to provide students with a process of inquiry useful for identifying, classifying, and analyzing instructional problems and, thus, contributing the skill in making decisions about curriculum and pedagogy. 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.

EDP 503 Arts Education Institute
See Institutes for Educators section of this catalog

EDP 511 Middle School Institute
See Institutes for Educators section of this catalog

EDP 553 Institute on Identification of the Gifted
See Institutes for Educators section of this catalog

EDP 554 Teaching Strategies for Encouraging the Gifted/Talented
See Institutes for Educators section of this catalog

EDP 555 Computers and Education for the Gifted
See Institutes for Educators section of this catalog

EDP 572 Hearing Impairment Institute: Oral/Aural Development
See Institutes for Educators section of this catalog

EDP 573 Administering Programs in Special Education
See Institutes for Educators section of this catalog

EPDI 529 Economic Education for Teachers
See Institutes for Educators section of this catalog

EPDI 530 Storytelling
See Institutes for Educators section of this catalog

EPDI 538 Teaching for Social Responsibility
See Institutes for Educators section of this catalog

EPDI 541 Early Childhood Institute: Teaching the Whole Child
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 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 dynamics of adolescence, individualizing reading, standards of selection, and creative methods of introducing books. Students are expected to read approximately 30 books from primary sources as well as textbook material. 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 skills 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 are stressed.

Emphasis is on the appropriate application of research-validated teaching and diagnostic techniques in supervised settings. Prerequisites: EDU 512 and EDU 513, EDU 620 and EDU 621 or equivalents. Cr 6.

EDU 621 Reading Remediation
Diagnostic and instructional techniques are related to learners of all ages. Case studies are used to explicate and match the stages of reading progress to developmental, corrective, and remedial situations. A functional knowledge of working with disabled readers in a classroom setting is emphasized. Issues and research, clinical observations and methods which can be used to cope with individual problems are stressed. Prerequisite: EDU 620. Cr 3.

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 management in planning and controlling a firm's operations: the emphasis is on information needs for management decision 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 320 Business Finance
This course introduces the student to the theories and techniques of managing capital sources and uses within the framework of shareholder wealth maximization. Lecture, problems, cases. Prerequisites: ECO 201, ECO 202, ACC 201, ACC 202 or ACC 301, MAT 110, MAT 211, MAT 212, and junior standing. Cr 3.

BUS 327 Investment Management
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. Prerequisite: BUS 320. 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 interspersed with the treatment of management's structural and technical processes. Analyzes 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 349 Women in Management
For both men and women in business, education, and other work settings. It explores the changing business and organizational environment created by the increase of women in professional and managerial positions. The course examines theoretical concepts pertaining to women in management. Both women and men who are or aspire to be managers will benefit from this course. Prerequisites: BUS 340, junior standing and completion of admissions requirements for majors. Cr 3.

BUS 360 Marketing
An introduction to the field of marketing normally through the use of a computer simulation game. The concepts of market segmentation, marketing mix strategy, and market systems development are presented along with an analysis of consumer behavior and the need for marketing research. Prerequisites: ACC 201, ECO 201, ECO 202, BUS 290, MAT 110, MAT 211, and junior standing. Cr 3.

BUS 363 Advertising
Students will explore the evolution of advertising, forms and media used and their relationship to the product, the climate, the target market, all within the framework of the marketing concept. Prerequisite: BUS 360, junior standing and completion of admissions requirements for majors. Cr 3.

BUS 395 Cooperative Education/Internship—Business Administration I
The student has the opportunity to relate academic knowledge to practical experience in the business world. The University can make arrangements with certain institutions and/or industries to employ students to fill specific jobs on a semester basis. The student's work is in a related field, and the work experience increases in difficulty and responsibility as the student progresses through the academic curriculum. The work experiences are approved in advance by the director. Open to first- and second-semester juniors and seniors in the School of Business, Economics, and Management with permission. Cr 1-5.

BUS 396 Cooperative Education/Internship—Business Administration II
Open to second-semester juniors and seniors in the School of Business, Economics and Management with permission. Prerequisite: BUS 395. Cr 1-5.

BUS 397 Cooperative Education/Internship—Business Administration III
Open to seniors in the School of Business, Economics and Management with permission. Prerequisite: BUS 396. Cr 1-5.

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 610 Managerial Economics
The application of economic analysis to the management of business enterprises. Designed to develop the student's ability to understand some of the important economic concepts and tools relevant to making decisions within a business firm. Particular attention is given to the use of interest and cost gradient tables, annual cost and present worth analysis, rate of return analysis, economic life, replacement economy cost minimization, and the impact of taxes upon a decision. Prerequisites: MBA 501, MBA 502, MBA 503, MBA 504, MBA 505. Cr 3.
MBA 660 Marketing Management
This course is organized to give the graduate student an opportunity to develop and test, through the case method, a number of marketing policies and strategies. Furthermore, the student will read and discuss the current literature in the field of marketing, reviewing current marketing practices and predictions for the balance of the century. Prerequisites: MBA 501, MBA 506-B. Cr 3.

MBA 670 Operations Research
A survey of commonly used models and analytical techniques in sophisticated quantitative-management-decision-making. Mathematical models are developed and applied, with the computer's aid, in a wide range of real-world business situations. Topics include: queuing theory, decision analysis, inventory theory, simulation, Markov analysis, classical optimization, mathematical programming, forecasting, and network analysis. Prerequisites: MBA 610. Cr 3.

MBA 699 Advertising
This course will discuss the theories and practices of advertising, sales promotion and public relations as related to the marketing program. It includes promotional planning and strategy, program integration and effectiveness and relevant communication concepts. The course will give students an introduction to the procedures and techniques involved in advertising, reseller support, and publicity so that they can understand, plan and develop promotion campaigns. Cr 3.

Associate Business

ABU 101 Principles of Economics I
A theoretical analysis of the basic characteristics, institution, and operational activities of a modern capitalistic economy which is involved in the transformation of scarce economic resources into the goods and services demanded by consumers. Topics discussed include inflation, unemployment, government monetary and fiscal policy to achieve full employment, and economic growth. (Cannot be applied toward Core Curriculum Requirement in Social Science.) Cr 3.

ABU 111 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 112 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 111 (not for SBEM baccalaureate students). Cr 3.

ABU 190 Introduction to Computers in Business
This course provides an introduction to the use of computer technology within business applications. IBM compatible microcomputers are the primary equipment used. Applications include word processing, data management, spreadsheets, graphics, communications, and the use of these in integrated problem solving. In addition, a general background on the role of information systems within organizations, current technology trends, ethical issues, and social considerations are discussed. Prerequisite: MAT 010. Cr 3.

ABU 220 Business Finance I
A study of the promotion, organization, and financing of the single proprietorship, partnership, and corporation. Such topics as fund flows, ratio analysis, break-even analysis and leverage, time value of money concepts, cost of capital and capital budgeting are examined. Prerequisites: ABU 101, ABU 102, ABU 111 and ABU 112. 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 for 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 260 Marketing
A study of the marketing organization with a focus on product policies, distribution policies, promotional and pricing policies. Market research is implemented by getting students involved in casework, controversial issues, and local business community projects. Prerequisites: 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 286 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 202 Principles of Economics II
A theoretical analysis of the firm and its role in the transformation of scarce economic resources into the goods and services demanded by consumers. Special attention is focused on the development of a market mechanism for the exchange of goods, services, and resources within a capitalistic economy. Topics discussed include consumer preferences and consumer behavior, production theory and production costs, the monopoly firm, and resource pricing. Cr 3.

ECO 299 U.S.S.R. Economic and Social System
This course will be centered around a 19-day visit to the Soviet Union during which the students will visit the cities of Moscow, Baku, Tbilisi, and Leningrad. The objective of the course is to provide the students with an understanding of the economic, social, and to some extent, political institutions of the U.S.S.R. via lectures, readings, discussions and visits to Soviet economic institutions, and meetings with Soviet counterparts. Cr 3.

ECO 302 Microeconomic Analysis
Price, income, and employment theory as tools in the study of economics. Prerequisites: ECO 201, ECO 202, and junior standing. Cr 3.

ECO 399 01 U.S.S.R. Economic and Social System
This course will be centered around a 19-day visit to the Soviet Union during which the students will visit the cities of Moscow, Baku, Tbilisi and Leningrad. The objective of the course is to provide the students with an understanding of the economic, social, and to some extent, political institutions of the USSR via lectures, readings, discussions and visits to Soviet economic institutions, and meetings with Soviet counterparts. A paper will be required on some aspect of the Soviet economy which aroused the student's interest. 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
NUR 304 Transition to Professional Role
Utilization of the nursing process is emphasized to assist individuals, families, and groups to promote, maintain and restore health. Concepts and selected theories provide a basis for understanding the factors which facilitate and/or inhibit the growth and development of human beings. Cr 5.

NUR 305 Nursing Process II
This course utilizes the nursing process in promoting, maintaining and restoring the health of individuals and families experiencing short-term alterations which do not significantly disrupt potential but do require nursing and/or other intervention. Didactic classes build on the student's foundation in pathophysiology, and provide the theory necessary for implementation of nursing skills in the clinical laboratory. Prerequisites: NUR 300, BIO 345. Concurrent: NUR 302, NUR 355. Cr 3.

NUR 309 Total Health Assessment
The purpose of this course is to develop the knowledge and skill necessary to conduct an in-depth bio-psychocultural assessment of an individual. Emphasis will be placed on data collection through development of communication, interviewing, history-taking and physical examination skills. Cr 3.

NUR 355 Nursing II Laboratory
The laboratory and clinical experiences give the students an opportunity to practice and to apply affective and psychomotor skills. Experiential learning will be guided by faculty in both the learning resource laboratory and in selected clinical settings. Emphasis will be placed on the application of theory to assist individuals experiencing short term alternatives in health. The student will be given the opportunity to utilize family assessment skills and develop nursing diagnosis pertinent to the family. Must be enrolled in NUR 305 concurrently. Cr 4.

NUR 690 Thesis/Project Seminar
A research seminar in which the student refines the thesis/project proposer. Cr 1.

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 aerobics 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.
Public Policy and Management Program

PPM 611 Economic Analysis
Introduces students to fundamental economic concepts and illustrates their application in a wide range of public policy problems. The central theme is the usefulness and limitations of economic analysis in the public policy formation and evaluation process. Particular attention is paid to the theory of consumer behavior, markets and market processes, the nature and causes of market failure and strategies, and models for government intervention. Application exercises and case materials are drawn from a variety of substantive policy areas such as the agricultural price support system and government transfer programs. Previous background in economics, especially microeconomic theory, is most helpful. Cr 3.

PPM 695 Independent Study
Cr 3.

School of Applied Science

Applied Immunology
AIM 611 Cellular Immunology Laboratory
Cr 3.

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 lectures from among the affiliates as well as other academic institutions, will provide the student with an opportunity to discuss practical applications of the core course material. Cr 1 per semester.

AIM 697 Independent Study
Cr 1-15.

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 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.

Technology

ITP 210 Technical Writing
This course offers a basic study of techniques used in technical fields to communicate in writing. Study includes document purpose, situation analysis, style, format and production of reports, proposals, procedure sheets, technical descriptions, forms, letters, memos, and visual aids. Prerequisite: competence in basic expository writing. Cr 3.
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 382 CAD/CAM Technology
A study of computer utilization in the areas of designing, engineering, manufacturing, and documenting as they relate to production process. 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.

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 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 310 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.

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 with a maximum of five 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.

ELE 351 Fields and Waves
Static electric and magnetic fields; field mapping; properties of dielectric and ferromagnetic materials; time varying fields, Faraday's law, Maxwell's equations; plane waves in dielectric and conducting media; calculation of the fields and other properties of common transmission lines. Prerequisite: MAT 350, PHY 123. Lecture 3 hrs. Cr 3.
The Facts

Registration
General Policies Related to Undergraduate and Graduate Registration

Audits Students may register for courses on a noncredit basis. With a noncredit registration, the student may participate in classwork, but is not required to take examinations. A noncredit registrant should know, however, that state Departments 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 $2.00 for a single copy, plus $1.00 for additional copies ordered at the same time. 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 Advising and Academic Information Department 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.

Registration (Multiple Campus) Students who wish to register for courses at other University of Maine System campuses in addition to courses at USM should contact the Registrar’s Office or the Advising and Academic Information Department to complete the proper forms before registering.

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 Advising and Academic Information Department 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 Advising and Academic Information Department 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.
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 and approval has been granted by the appropriate advisor, dean, or director if necessary. 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

Graduate Registration (walk-in) Walk-in registrations will be processed from March 14 through the Friday preceding the beginning of each session. The procedures are as follows:
1. Complete registration worksheet.
2. Mail completed form along with proper payment to the appropriate dean or director's office.

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.

Graduate Registration Worksheet

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Social Security Number</th>
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Name ____________________

Home Address

Business or Local Address

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>
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Registration Processed:

Married □ Single □

Male □ Female □

Birthdate □-□-□-□

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 ______

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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
Undergraduate $53.00
Graduate $61.00
Law $104.00

Some courses require payment of a fee in addition to tuition and are designated in the course schedule. For information about the amount charged, 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 by the due date.
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 by credit card.

Third Party Payments
A student must give Student Billing written authorization from the agency/employer prior to the date payment is due. No conditional payment offers will 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
The charges assessed students who withdraw from the University are adjusted 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, 1987. 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.
Accommodations and Dining

On-Campus Accommodations
Living accommodations for Summer Session participants are available on the Gorham campus during the entire Summer Session program (May 9-August 12). 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

Daily Rate

<table>
<thead>
<tr>
<th></th>
<th>No Linen</th>
<th>Limited Linen*</th>
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</thead>
<tbody>
<tr>
<td>Single</td>
<td>$10.75</td>
<td>$13.00</td>
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<tr>
<td>Double</td>
<td>$8.25</td>
<td>$10.50</td>
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</tbody>
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5-Day Weekly Rate

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</thead>
<tbody>
<tr>
<td>Single</td>
<td>$53.75</td>
<td>$65.00</td>
</tr>
<tr>
<td>Double</td>
<td>$41.25</td>
<td>$52.50</td>
</tr>
</tbody>
</table>

With the 5 Day Rate all personal belongings must be removed from the room by 12:00 noon on Friday.

7-Day Weekly Rate (Sunday-Saturday)

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<tr>
<td>Single</td>
<td>$75.25</td>
<td>$91.00</td>
</tr>
<tr>
<td>Double</td>
<td>$57.75</td>
<td>$73.50</td>
</tr>
</tbody>
</table>

*Linen left in room, beds not made, no exchange during stay. Linen includes 2 sheets, 1 pillowcase, 1 face cloth, 3 towels, cup, soap, blanket, pillow.

Special Rentals: desk lamps, fans, and refrigerators may be rented on a weekly or monthly basis. Refrigerator rental requires a refundable deposit of $25.00.

For more information, contact Residence Life at 780-5240.

On-Campus Dining
The University offers meals and/or snacks at reasonable prices on both campuses. The cafeterias on both campuses will be open Monday-Friday, 7:30 a.m.-1:30 p.m., serving both breakfast and lunch. The Gorham Dining Center will serve a dinner meal from 5:00-6:00 p.m., beginning June 27.

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.

1988 Summer Session Housing Reservation Request

(Please print or type all information)

Name

Address________________________________________City________________________State/Zip_______

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?__________________________________________________________________________

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 1987-88 academic year must be registered and display a valid decal.
Effective May 9, 1988, the vehicle registration fee will be $3.00. All decals expire August 31, 1988.
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 (780-4700, 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.-8:00 p.m.
Friday: 8:00 a.m.-4:30 p.m.
Saturday: 8:00 a.m.-4:30p.m.
Sunday: Closed
*May 9-June 24

Library Closed
Memorial Day Weekend: May 28, 29, 30
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, 780-5411 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 conditions," 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. For more information, contact the center nearest to you.
Bath-Brunswick Center
275 Bath Rd.
Brunswick, Me. 04011
(207)442-7070

Saco-Biddeford Center
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 26, 1988.
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 Public Service

The Division of Public Service is responsible for the development, coordination, and support of all noncredit programming at USM. Among the units within the division offering programs during the 1988 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 fall, winter, and spring 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 fall 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.

MAR 104A Sailboat Racing Rules and Tactics

Wednesdays, beginning April 20
Tuition: $55.00

Though your boat may be in storage now, let your mind strategize for the first race of the 1988 season! Become aware of the rules of the U.S. Yacht Racing Union (USYRU) as they pertain to sailboats and tactical situations on the race course. Basic rules will be addressed: port and starboard, windward and leeward, rights and obligations of overtaking boats and rounding marks, antibarging provisions, and proper etiquette in handling protests. Special emphasis will be given to USYRU appeals to illustrate the interpretation of the rules. This course presumes some racing knowledge and experience and serious sailors of all ages welcome. Accompanying films will whet your appetite for what's ahead.

MAR 105 Casco Bay Educational Cruises

Friday, April 22, May 6, 13, 20
5:30-8:00 p.m.; Saturday, April 30
6:30 a.m.
Tuition: $20.00 each session; $90.00 entire series.

Enjoy some early spring evenings learning about our marine environment while cruising the waters of the Casco Bay. For these cruises, dress with an eye for the weather and bring warm clothing.

Cruise #1 The Working Waterfront

This cruise provides close-up encounters with tugs, trawlers, gill netters, lobster boats, barges, dry docks and cranes. Hands-on experience with an otter trawl allows participants to experience the hard working effects of the fishing lifestyle. We will demonstrate lobster fishing techniques as well.

Cruise #2 “Early Bird Special”… Bird Identification

Search for eagles, ospreys and hawks which frequent this locality at this time of the year. Learn basic bird identification and interesting facts about bird habitats, mating and nesting activities.

Cruise #3 Environmental Assessment

Use scientific instruments to gather abiotic chemical data involving such things as dissolved oxygen, salinity, and nitrates in the water column. Plankton, otter trawl and bottom samples will add data of the living complement of the bay floor.

Cruise #4 Lighthouses and Ship Piloting

Get an understanding of the navigational aids in the harbor, what they are and what they mean. You will hear about the roles and history of the different lighthouses and the naval and navigational history of the area.

Cruise #5 Natural History Experiences

Observers on deck will acquire an appreciation for the harbor seals in their natural homes and the rookeries of herring gulls and eider ducks. Observers may see an osprey dive for a fish or perhaps see the harbor porpoises. The naturalist will identify and explain the ecology seen and how we all fit into nature’s scheme.

ANP 104A Visiting Portland’s Galleries, Museums and Artists’ Studios

Saturdays, beginning April 23 10:00-4:00 p.m.

Encounter Portland’s visual arts as you visit the known and lesser known places where art is found and made. This course will involve you in the discovery of the visual art resources of the community. You will learn about painting, photography, sculpture and printmaking, as well as the local art scene. The focus will be on art produced today and how it is affected by art of the past. A talk by the instructor will provide background information prior to each day’s visit to local galleries, museums and artists’ studios.
MUS 102A How to Play the Piano Despite Years of Practice
Mondays, beginning April 25
7:00-9:00 p.m.
Tuition: $80.00
Learn how to play by ear! Participants will learn to understand how music is made so they can make their own. Using a proven method, they will soon see how to express themselves at the keyboard without time on scales or exercises.

BUV 104A Mission Impossible: How to Start Your Own Business Right Now and Enjoy Doing It!
Tuesday, beginning April 26
7:00-9:00 p.m.
Tuition: $65.00
Learn how to get past whatever seems to be in the way of starting a business right now. Develop a clear view of what kind of business you would like to start; create an organized action plan for starting that business now; and begin action toward making that happen. The program will cover: 1) defining what you want; 2) developing a plan to match your intentions; 3) acquiring information which will guide you in making realistic decisions; 4) discovering resources and creating opportunity; 5) risks and how to take them; 6) money and what to do when you do not have it.

HMO 103A Where to Live/Where to Invest
Saturday, May 14 9:00 a.m.-4:00 p.m.
Tuition: $40.00/person; $65.00/couple
An information-packed, one-day program for the first time home buyers and neophyte investors in today's hot real estate market. The day will begin with a discussion of consideration in buying, factors in determining market value; types of housing and relative market strength; growth trends and demographic patterns in Greater Portland. Next put on your walking shoes because you will be transported to several open houses for a chance to apply what you've learned, view and compare properties and ask questions of brokers. Finally, the instructor will help you pull all of the information together into buying strategies suited to your needs.

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.
Whales typically seen include finbacks, minkes, dolphins and the friendly humpbacks. Right and Sei Whales are also occasionally spotted.

Lifeline
The USM Lifeline Adult Fitness Program is 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 dur-
ing 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 programs to meet identified needs within and among southern Maine companies, nonprofit organizations, and government agencies. Intensive external involvement in the form of programmatic advisory groups insures that the Department's offerings are timely, relevant, and scheduled appropriately. These groups are also very active in the promotion of the Department and its various programs.
The Department's offerings address needs in management development, quality control, production and inventory control, executive housekeeping, and sales and marketing. Additional courses, seminars, and workshops are under development.
All of the Department's events can be made available for on-site delivery within organizations. We would be happy to discuss these programs or any other needs your organization may have. The Department telephone is 874-6510.

**Computer Resource Center**
The Department of Community Programs established the Computer Resource Center in the spring of 1985 to enhance and expand its computer education offerings in an effort to better accommodate the community of new and experienced personal computer users. Individual computer courses, contract training, the Certificate Program for Personal Computer Coordinators, and information services assist professionals, organizations, and the general public with their continuing needs. The Computer Resource Center is equipped with IBM-compatible computers and the latest in popular software.
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Gorham Campus

50. Academy Building
51. Anderson Hall
52. Art Gallery
53. Bailey Hall (Library)
54. Corbell 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
68. 24 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. Student Resident
P26. Student Resident
P27. Faculty/Staff/Student Commuter
P28. Student Resident
P29. Visitor
P30. Student Commuter
P31. Faculty/Staff
P32. Faculty/Staff
P33. Student Resident
University of Southern Maine

Preliminary Schedule

Build USM into your summer plans

The Facts

Registration

Registration Begins March 14, 1988

The University of Southern Maine is pleased to present its 1988 Summer Session 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 Advising and Academic Information Department in 100 Payson Smith Hall on the Portland campus or the Registrar's Office in 113 Corbelli Hall on the Gorham campus. Students may also register at any of USM's off-campus centers (Bath: 442-7070; Saco: 282-4111; Sanford: 324-6012). 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 Advising and Academic Information Department or the Registrar's Office. Students interested in graduate education courses must contact the Graduate Education Office located in 408 Bailey Hall on the Gorham campus (780-5306).

Tuition/Fees/Payment

Undergraduate Courses ................................ $53.00 per credit hour
Graduate Courses ........................................ $61.88 per credit hour

Payment or arrangements for payment must be made at the time of registration. Please consult the 1987-88 USM catalog for other billing and refund policies.

Accommodations and Dining

Housing on the Gorham campus is available at reasonable rates ($30.75 single or $38.25 double, no linen) beginning May 9. Meal plans are available, or breakfast and lunch may be purchased on an à la carte basis. For more information, contact: Residence Life, 100 Upton Hall, Gorham campus, 780-5240.

Child care services are available. For more information, call 780-4125.
Session Dates
Session 1 May 9–June 24 (7 weeks)
Session 2 May 9–June 3 (4 weeks)
Session 3 June 13–July 8 (4 weeks)
Session 4 June 27–August 12 (7 weeks)
Session 5 June 27–August 5 (6 weeks)
Session 6 July 18–August 12 (4 weeks)
Session 7 Variable

Holidays
• May 30 (Memorial Day)
• July 4 (Independence Day)

Schedule Legend
Each course listing contains the following information (refer to headline at top of each column): campus or off-campus location*, course number, course title, section; course offered is course title, college; credit hours; time; days.

*P=Portland campus; G=Gorham campus, SB=Saco Center; S=Sanford Center; BB=Bath/Brunswick Center; X=other off-campus location.

The University reserves the right to revise, amend, or change items in this brochure. The University also reserves the right to cancel course offerings, to set minimum and maximum size of classes, to change designated instruction times, and to make decisions affecting the academic standing of anyone participating in a course or program offered by the University of Southern Maine.