

UNIVERSITY OF MINNESOTA DULUTH

BULLETIN

Continuing Education and Extension (CEE)

1991-92



How to Use This Bulletin

This bulletin is the official source of information about the Duluth Center for Continuing Education and Extension (CEE)—its policies, regulations, procedures, requirements, and course offerings. Compliance with the regulations stated in this bulletin is expected of each student. This is particularly true with respect to fees, cancellations, and refunds. Use the index at the back of the bulletin to locate specific information.

It is possible for degree and certificate programs to change or be discontinued. The University will make every reasonable effort to assist admitted students in completing a program.

For additional information:

CEE Office	403 Darland Administration Building	(218) 726-8113
Campus Information	Lobby Darland Administration Building	(218) 726-8850
Registration	104 Darland Administration Building	(218) 726-8808, 8809
Counseling and Advising	255 Darland Administration Building	(218) 726-7985
Financial Aids	139 Darland Administration Building	(218) 726-7500
Graduate School	431 Darland Administration Building	(218) 726-7523
Kirby Student Center	101 Kirby Student Center	(218) 726-7163
Veterans Benefits	102 Darland Administration Building	(218) 726-8791
Collegiate Units:		
College of Education and Human Service Professions		(218) 726-7131
College of Liberal Arts		(218) 726-8981
College of Science and Engineering		(218) 726-7201
School of Business and Economics		(218) 726-7281
School of Fine Arts		(218) 726-7261
School of Medicine		(218) 726-7571, 8511

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Bulletin Use

The contents of this bulletin and other University bulletins, publications, or announcements are subject to change without notice. University offices can provide current information about possible changes.

Equal Opportunity

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, religion, color, sex, national origin, handicap, age, veteran status, or sexual orientation. In adhering to this policy, the University abides by the requirements of Title IX of the Education Amendments of 1972; by Sections 503 and 504 of the Rehabilitation Act of 1973; by Executive Order 11246, as amended; 38 U.S.C. 2012; by the Vietnam Era Veterans Readjustment Assistance Act of 1972, as amended; and by other applicable statutes and regulations relating to equality of opportunity.

Inquiries regarding compliance may be directed to Judith Kaplan, Director, Department of Personnel and Affirmative Action, 247 Darland Administration Building, University of Minnesota, Duluth, 10 University Drive, Duluth, MN 55812-2496, (218) 726-6520, or to the Director of the Office of Civil Rights, Department of Education, Washington, DC 20202, or to the Director of the Office of Federal Contract Compliance Programs, Department of Labor, Washington, DC 20210.

Cover: George Morrison. *Red Rock Crevices. Soft Light. Lake Superior Landscape.* 1987, acrylic and ink on canvas on board, 6 1/2" x 11 1/2" Collection Tweed Museum of Art

Editors: Ann Harwood and Linda Mills

- EXTENSION CLASSES
- SEMINARS, CONFERENCES, AND WORKSHOPS
- SPECIAL PROGRAMS

Duluth Center Continuing Education and Extension (CEE)

1991-92

Fall Quarter: September 9 to November 22
Winter Quarter: December 2 to February 28
Spring Quarter: March 9 to May 22



The University of Minnesota Duluth offers an attractive alternative to both a large, research-oriented facility and to a small, liberal arts college.

UNIVERSITY OF MINNESOTA

CONTINUING EDUCATION AND EXTENSION

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Duluth is the educational and economic hub of the seven-county Arrowhead region.

Congratulations! By obtaining this bulletin, you have taken the first step toward completing your educational goal, whether it be working on a baccalaureate or master's degree, developing professionally, or satisfying a personal interest. For more than 50 years, Continuing Education and Extension (CEE) and the University of Minnesota Duluth have offered extension classes, conferences and workshops specifically designed for busy persons such as yourself who wish to further their education in a nontraditional manner.

This year, CEE is excited to announce the formation of a Student Support Services Unit. By coordinating our registration, counseling, and advising efforts, we hope to provide even better service to our students. A new computerized system makes registration easier than ever, and expanded counseling hours are offered to meet your after-work requirements. For more information, call the CEE student counselor at (218) 726-7985.

CEE continues to offer more than 500 evening classes covering a wide variety of subject areas. These courses are open to anyone; there are no admission requirements (other than course prerequisites).

Many Duluth and surrounding area businesses are committed to helping their employees by offering tuition payment or reimbursement plans. I encourage you to talk to someone at work about your eligibility for these programs.

CEE strives to provide educational programs desired by people throughout the region. In the following pages, you should find programs needed to fulfill your educational goal. If you don't, we want to hear from you. We also want to hear from you if you have a question or complaint, or if you need advice. Please call us at (218) 726-8113 or write a letter to 403 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496. Our friendly and informed staff is here for your convenience.

Theresa A. Neil
Director, Continuing Education and Extension,
Duluth Center



Theresa A. Neil

Note: Effective September 3, the CEE director is available by phone, (218) 726-8113, or in person by appointment:
8:30 a.m.-6:00 p.m. Monday
8:30 a.m.-5:00 p.m. Tuesday-Friday

Duluth Center Continuing Education and Extension (CEE)

I. HOW AND WHEN TO REGISTER

Registration Procedure

- Participants may register by mail before the close of the registration period for each program. Please use the mail registration form found in this bulletin.
- Participants may register in person at the CEE registration windows, 104 Darland Administration Building, during regular office hours before the close of each quarter's registration period. Specific periods for Extension classes registration are noted in this bulletin.
- Participants may register by telephone if they wish to charge their registration fees to VISA or MasterCard.
- Participants may arrange to register for special programs or area classes at the first class or conference meeting if the program is not filled or cancelled during the registration period. A late fee will be assessed if this action constitutes a late registration.
- Participants whose programs require or recommend the use of a microcomputer may wish to utilize the microcomputer facilities made available through UMD Computing Services. Computer Access Cards may be purchased either in person at windows 11, 12, or 13 in the Darland Administration Building, or by mail. You must present proper identification and proof of current registration. If purchasing by mail, be sure to include a self-addressed, stamped envelope and proof of registration along with your payment, and mail to Cashier's Office, Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496.

Registration by Mail

- Mail a completed registration form from this bulletin along with the appropriate registration fee, or send a request noting the numbers and titles of classes in which you desire to enroll to Continuing Education and Extension, 104 Darland Administration Building, University of Minnesota Duluth, Duluth, MN 55812-2496. Make all registration fee payment checks or money orders payable to the **University of Minnesota**. Your registration will be processed more efficiently if you make payment by separate check for each course. Registration fees may also be charged to VISA or MasterCard.

Note: If tuition is paid by a personal check that fails to clear the bank, you will be charged a \$15 service charge and a hold will be placed on your record.

Note: Military personnel or persons registering under an authorization from a federal, state, foreign agency, institution, company, scholarship, or loan fund may not register by mail without permission from the CEE office. Such registrations must be made in person.

Registration in Person Before Classes Begin

- Request the necessary registration materials at a CEE registration window, 104 Darland Administration Building.
- Complete the registration materials for the classes, conferences, or special programs in which you intend to enroll. Present the completed forms and registration fee payment at a CEE registration window.

- Appear at the appropriate classes, conferences, or special programs at the designated starting time and date. Be prepared for program participation.

Note: Persons desiring to participate in an Extension credit class being held at UMD must secure their registration materials and complete their registration procedures at a CEE registration window. Instructors of these courses are not prepared to handle registration in their classrooms.

Note: In-person registration after classes have started will be permitted for Extension classes on a space-available basis. Students should be aware, however, that a late fee will be charged.

Registration in Person at Off-campus Locations

- Request the necessary registration materials from the course instructor or program representative at the first meeting.
- Complete the registration forms and present them, along with your registration fee payment and any late-registration fee to the course instructor or program representative who has been authorized to submit them on the registrant's behalf to the CEE office.

Cross-Registration

EXTENSION STUDENTS INTO DAY SCHOOL COURSES

Extension students who are registered in one Extension class may register for a maximum of two day school classes on a space-available basis if the students are 1) residents of the State of Minnesota or have received reciprocity for resident tuition in the State of Minnesota, and 2) academically admissible to UMD. Extension students wishing to cross-register into day school classes should complete the registration forms and present them at a CEE registration window, where cross-registration eligibility will be verified. If it is determined that a student is not eligible, he or she will be cancelled from the day school course(s).

UMD STUDENTS INTO CEE COURSES

UMD undergraduate students may register for a maximum of two Extension classes at UMD on a space-available basis. Day school students register for Extension classes at their regularly scheduled registration time. If additional fees must be charged, they will be assessed at the time of registration. Grades for Extension classes are added automatically to students' day school records.

Extension Classes Calendar

FALL QUARTER	September 9—November 22
August 5	Beginning date for mail-in and in-person registration
September 2	Labor Day-holiday
September 6	Closing date for registration—late fee of \$10 in effect hereafter
September 9	Fall quarter classes begin
September 20	Last day to change grading option
October 18	Last day for official cancellation of a class with an automatic W
November 18-22	Final examination period
November 22	Last day of fall quarter

WINTER QUARTER	December 2—February 28
October 24	Beginning date for mail-in and in-person registration
November 27	Closing day for registration—late fee of \$10 in effect hereafter
November 28-29	Thanksgiving—holidays
December 2	Winter quarter classes begin
December 13	Last day to change grading option
December 21-January 5	Winter holidays
January 6	Classes resume
January 20	Martin Luther King Holiday—no classes
January 24	Last day for official cancellation of a class with an automatic W
February 24-28	Final examination period
February 28	Last day of winter quarter

SPRING QUARTER	March 9—May 22
January 29	Beginning date for mail-in and in-person registration
March 6	Closing date for registration—late fee of \$10 in effect hereafter
March 9	Spring quarter classes begin
March 20	Last day to change grading option
April 17	Last day for official cancellation of a class with an automatic W
May 18-22	Final examination period
May 22	Last day of spring quarter

CEE Registration Window Hours During Registration Periods

FALL QUARTER

August 5-9, 12-16, 19-23, 26-30 8:30 a.m.-4:00 p.m.
 September 2 window closed (holiday)
 September 3-6, 9-13 8:30 a.m.-6:00 p.m. Monday-Thursday
 8:30 a.m.-4:00 p.m. Friday

WINTER QUARTER

October 24-25, 28-31,
 November 1, 4-8, 8:30 a.m.-6:00 p.m. Monday-Thursday
 11-15, 18-22, 25-27 8:30 a.m.-4:00 p.m. Friday
 November 28-29 window closed (holiday)
 December 2-5 8:30 a.m.-6:00 p.m.
 December 6 8:30 a.m.-4:00 p.m.
 December 23-25 window closed (holiday)
 January 1 window closed (holiday)
 January 20 window closed (holiday)

SPRING QUARTER

January 29-31,
 February 3-7, 10-14,
 17-21, 24-28, 8:30 a.m.-6:00 p.m. Monday-Thursday
 March 2-6, 9-13 8:30 a.m.-4:00 p.m. Friday
 March 25 window closed (holiday)

Note: During times not listed above, CEE registration windows are open:

8:30 a.m.-6:00 p.m. Monday
 8:30 a.m.-4:00 p.m. Tuesday-Friday

II. GENERAL INFORMATION

The Duluth Center Continuing Education and Extension (CEE) program is designed to foster university-level educational activity in our geographic area. Many persons undertake such educational activity simply to satisfy their desire for knowledge; others wish to meet a personal goal or some institutional requirement; and some seek certificate or degree recognition for completion of a relatively well-defined academic program. Continuing learners are often motivated by a number of such factors; and, ideally, they avail themselves of a variety of credit and noncredit educational activities before they focus their attention on specific academic goals.

A number of well-defined programs are available at CEE for those interested in pursuing a specific academic goal. The most commonly taken programs are described in this bulletin. Additional programs which are described in the *University of Minnesota Duluth General Bulletin* may be offered when there is sufficient interest to make such offerings practical.

Through the CEE program, it is possible for students who have had no previous college-level work to complete the liberal education requirements for all baccalaureate degrees at the University of Minnesota Duluth. It is currently possible for students to earn a B.Ac. degree, a B.B.A. degree, and a B.A. degree in criminology, history, sociology, or psychology by attending classes completely through CEE. Classes necessary to complete these degrees are offered on a regular basis through CEE. Students intending to complete these degrees must contact a faculty advisor in the appropriate department and complete all appropriate steps.

Program Areas

CEE offers a variety of classes, seminars, conferences, and workshops. There are several special programs as well, in addition to opportunities for independent study.

EXTENSION CLASSES

This is the most extensive CEE program area. Curricula, registration procedures, and schedule or performance regulations found in this bulletin apply to Extension classes. Most students pursuing certificate or degree programs through CEE regard Extension classes as the primary source of educational opportunities to meet their needs and goals. These courses are offered at UMD and at selected area centers located throughout northeastern Minnesota.

The Extension class offerings are publicized through this bulletin. Information about changes, additions, and deletions in the offerings is provided at the beginning of each quarter's registration.

SEMINARS, CONFERENCES, AND WORKSHOPS

This program area is characterized by conference, institute, seminar, and workshop activity. Participants may concentrate on an area of content for one day to ten weeks or more under these formats. Noncredit, university-level educational activities are particularly suited to this program area. Some conferences offer Continuing Education Units (CEUs) which are used by many professions to recertify their members. University credits may be awarded for conferences that are specifically designed to cover approved course content.

Programs are publicized through special announcements, brochures, the mass media, and similar avenues. Registration dates are identified in these publications.

Conferences and special programs are planned with potential participants. Persons desiring such educational activities are encouraged to contact the CEE office to explore program development.

CENTER FOR PROFESSIONAL DEVELOPMENT

The Center for Professional Development is a nonprofit community service unit of the School of Business and Economics, and Continuing Education and Extension at the University of Minnesota Duluth. Its director and staff work cooperatively with representatives from local and regional organizations to identify needs for professional training and development, and then it establishes appropriate programs to meet those needs. Their objective is to offer a wide selection of comprehensive programs that will provide participants with the most practical and advanced knowledge and skills for direct application to their jobs. Participation in these programs gives individuals the opportunity to become familiar with the most recent developments in their fields. Each program is led by one or more persons who are experts in their subject areas and experienced seminar leaders. These individuals may be drawn from the School of Business and Economics faculty, local practitioners, or a network of national leaders. The seminars are limited in size and offer opportunity for extensive participation and exchange of ideas.

Various seminars are designed for managers, administrators, supervisors, professional and technical persons, and secretaries. Brochures describing specific seminars will be mailed to individuals upon request. Names can be placed on the regular mailing list by calling (218) 726-6142 or by writing to the Center for Professional Development, 19 School of Business and Economics Building, 10 University Drive, Duluth, MN 55812-2496.

ELDERHOSTEL

Elderhostel, a program for people 60 years of age and older, is a combination of the best traditions of education and hosteling. Inspired by the youth hostels and folk schools of Europe, Elderhostel provides one-week experiences of campus life and academic stimulation for any older person who has not finished learning. CEE offers a one-week Elderhostel program on the Duluth campus in July and several one-week programs at the Gunflint Lodge in Grand Marais, MN, in the fall and spring. For further information about Elderhostel, please call (218) 726-6347.

UNIVERSITY FOR SENIORS

The University for Seniors provides opportunities for intellectual and cultural exploration, and development for men and women 50 years of age and older. The University for Seniors is a place where individuals of diverse backgrounds meet to share interests and develop appreciation and knowledge in new areas.

The program was developed by its members with the support of CEE at UMD. It utilizes the members' wealth of experience and talent in planning and implementing college-level educational experiences. Functioning as an intellectual cooperative, members are instructors, planners, and committee members, according to their skills.

The only requirements for admission are an interest in a continuing educational experience and support of the program through participation and a membership fee. Inasmuch as the University for Seniors is a cooperative, members support its objectives with their efforts and participation as well as their dues.

The University for Seniors welcomes you whether your formal education ended early in life or you acquired advanced degrees. An interest in learning is all that's required. The goal of the University for Seniors is to enable its members to express themselves and to enjoy cultural experiences in a friendly, cooperative atmosphere among contemporaries. For further information about the University for Seniors, please call (218) 726-6347.

INDIVIDUAL EXTENSION CLASSES

Continuing Education and Extension offers the Individual Extension Classes listed below. These courses are year-round, University credit courses; beginning and ending dates of CEE quarters do not apply. Students are expected to complete the course within 16 weeks of registration; however, they may request an extension of another 16 weeks with consent of the instructor.

Benefits of Individual Extension Classes include:

- There are no class meetings.
- Register at anytime throughout the year.
- Convenient registration by mail or in person.
- Work at your own pace.
- View tapes at your own leisure.
- Apply to major, minor, or liberal education requirements.

Registration

Students may register for Individual Extension Classes by mail, by telephone if they wish to charge their registration fees to VISA or MasterCard, or in person at a CEE registration window. Please see the section on **How and When to Register**.

Cancellation and Refund Policy

Cancellations of Individual Extension Classes registrations must be done by mail or at a CEE registration window. A cancellation is effective on the date the completed cancellation form is post-marked for mail delivery or is presented in person at the registration window.

A refund is granted according to the following schedule:

Cancellation completed within two weeks of registration.	100%
Cancellation completed within one month of registration.	75%
Cancellation completed within two months of registration.	50%

Students must formally cancel their registration for a class in which they no longer intend to participate. A cancellation completed within one month of registration will result in the course being deleted from the student's transcript. A cancellation completed within two months of registration will result in a W on the student's transcript. If the student does not complete the course after 32 weeks, an F or N will appear on the student's transcript.

Note: Students will need a library access card for all the following courses and should request one upon registration.

Anth 1604. CULTURAL ANTHROPOLOGY. (5 cr; hrs and room arr; \$303.75.) Kemp [A]

This course offers an introduction to representative cultures of the world and to the concepts and methods of cultural anthropology, focusing on the range of variation and degree of uniformity in human behavior and in cultural adaptations. Students are required to view video tapes at UMD Multi Media Services. All course directions, required books, and requirements are found in the study guide which may be purchased at the UMD Main Street Store.

Anth 5604. FACES OF CULTURE. (4 cr; prereq 70 cr and 1604 or #; hrs and room arr; \$258.00) Kemp [A]

Advanced comparative examination of cultures as well as anthropological research methods and theoretical orientations. Individualized self-study program based on 26 video units, associate study guide, text, and reading of culture case studies. Students are required to view video tapes at UMD Multi Media Services. All course directions, required books, and requirements are found in the study guide which may be purchased at the UMD Main Street Store.

PsyF 5516. SEX: A HUMAN FUNCTION. (4 cr; 5515, prereq #; hrs and room arr; \$258.00) Bogen [O]

The most current information in the field of human sexuality is used to sensitively address existing politics and myths. The goal is for participants to become knowledgeable concerning their own sexuality, more able to discuss sexual topics with peers and clients, and more able to understand the full range of sexual functions. Participants should be aware that the materials presented are frank and explicit. Students are required to view video tapes at UMD Multi Media Services. All course directions, required books, and requirements are found in the study guide which may be purchased at the UMD Main Street Store. Consultation with the instructor is invited.

Psy 1003. GENERAL PSYCHOLOGY. (5 cr; hrs and room arr; \$303.75) Bogen, Maddy [A]

Introduction to scientific study of behavior; consideration of the major topics investigated by psychologists with emphasis on basic principles, concepts, and procedures used in psychology. Students will learn to think analytically about behavior, and what influences it, and be able to apply this knowledge to the human condition. Students are required to view video tapes at UMD Multi Media Services and to read published articles on reserve in the UMD Library as well as a text. All course directions and requirements are found in the study manual. Required text with study guide is *Understanding Psychology* by Robert S. Feldman. The course manual developed by the instructors is also required. Materials may be purchased at the UMD Main Street Store. Consultation with the instructor is invited.

Psy 3216. HUMAN SEXUALITY: A PERSONAL PERSPECTIVE. (3 cr, 3215; prereq 1003 or #; hrs and room arr; \$193.50) Slack [O]

This is an undergraduate self-study course which views human sexuality as an essential and healthy facet of life. The purpose is to impart current knowledge and research-based information which may be useful in students' personal growth and future careers. Course content includes materials which are not data based, but have to do with beliefs and the "politics of sex." Some materials are explicit. Students are required to view video tapes at UMD Multi Media Services. All course directions, required books, and requirements are found in the study guide which may be purchased at the UMD Main Street Store. Consultation with the instructor is invited.

Psy 3331. DEVELOPMENTAL PSYCHOLOGY. (5 cr; prereq 1003; hrs and room arr; \$322.50) Das [A]

Major processes involved in human development from conception to death. Topics include a survey of theoretical and methodological issues in the study of the individual, a comprehensive view of development during the period of most rapid growth, and a perspective on problems arising at different stages of development by tracing their origin. Students will be required to view 5 video tapes and listen to 26 audio tapes at UMD Multi Media Services, and write a term paper. Study guide and text may be purchased at the UMD Main Street Store.

Psy 3535. CAREER AWARENESS AND DEVELOPMENT. (3 cr; hrs and room arr; \$193.50) Falk, Heikel, Kjolhaug, Pribyl, Westlund [A]

The purpose of this course is to provide current knowledge and research based upon information regarding career awareness, self assessment, career development, career exploration, job search, and adjustment. Students will learn life/career planning skills. Students are required to meet with their instructor/counselor and view video tapes at UMD Multi Media Services. Shortly after their registration, students will receive a letter informing them of the instructor/counselor assigned to them. The required text is *Voyage: A Chartbook for Career/Life Planning*, by Margaret G. Austin and may be purchased at the UMD Main Street Store. **Note:** This course may be taken on a noncredit basis. The fee is \$95.00.

SPECIAL PROGRAMS

Fall, 1991

Courses for the Community—Noncredit courses open to all area adults without prerequisites of any sort, generally two to three hours one day a week for six weeks. Call CEE at (218) 726-6347 for further information and a schedule of planned courses.

Edwin H. Eddy Lecture Series on Communication Disorders—Annual lectures for health service professionals, students, and other interested persons. College credit or Continuing Education Units available for a small fee. Call CEE at (218) 726-6142 for further information.

Professional Development Workshops—CEE sponsors many professional development workshops on a variety of topics as well as computer training for adults. For a schedule of upcoming workshops, call (218) 726-6142.

Winter, 1991-92

Courses for the Community—Noncredit courses open to all area adults without prerequisites of any sort, generally two to three hours one day a week for six weeks. Call CEE at (218) 726-6347 for further information and a schedule of planned courses.

Spring, 1992

Edwin H. Eddy Lecture Series on Communication Disorders—Annual lectures for health service professionals, students, and other interested persons. College credit or Continuing Education Units available for a small fee. Call CEE at (218) 726-6142 for further information.

UNIVERSITY COLLEGE

University College (UC) provides educational opportunities for highly motivated students who need flexibility in using the resources of the University of Minnesota to achieve their bachelor of arts or bachelor of science degrees. UC serves the campuses and colleges of the University through two degree programs: the Inter-College Program and the Program of Individualized Learning.

INTER-COLLEGE PROGRAM—ICP offers students a credit-based, individualized program that draws upon courses and resources from throughout the University community. The degree program provides an alternative to traditionally structured majors by allowing students the flexibility to incorporate course work from two or more colleges to achieve their educational goals. To be admitted to ICP, students must develop a personal degree plan, which includes a comprehensive statement of educational goals and objectives, and a list of the courses and resources to be used in the individual degree program.

PROGRAM FOR INDIVIDUALIZED LEARNING (formerly University Without Walls)—The program offers a distinctive, criterion-based B.A. or B.S. degree for intellectually independent students. Students select the Program for Individualized Learning because they want to develop specialized or interdisciplinary fields of study, because they have knowledge gained from independent learning they want to incorporate into their degree programs, and because they want greater responsibility for the nature and scope of their education. To be admitted, students must describe their proposed area of study, identify learning for the liberal arts, design an independent learning project, and write an essay.

Students in the Duluth area who want to learn more about University College degree programs and how those programs can serve them should contact University College Individualized Degrees, 201 Wesbrook Hall, 77 Pleasant St. S.E., Minneapolis, MN 55455, (612) 624-4020.

UNIVERSITY OF MINNESOTA INDEPENDENT STUDY COURSES

The Department of Independent Study offers a wide variety of correspondence, radio, television, video cassette, and audio cassette courses. Most University undergraduate degree programs accept Independent Study credits in partial fulfillment of requirements (see the *UMD General Bulletin*); all CEE certificate programs accept such credits. Certain 5xxx-level courses broadcast on television may be taken for graduate credit. The *Independent Study Bulletin* is available from the Duluth Center CEE office or from the Department of Independent Study, 45 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455, (800) 234-6564. For specific information on courses, call (612) 624-0000.

Note: If you plan to transfer credits, check with the CEE counselor for UMD equivalency.

• Local Television Courses:

Look for these television courses being broadcast in the Duluth area in 1991-92:

FALL QUARTER (Registration begins August 14)

EPsy 5690. EDUCATION OF THE GIFTED AND TALENTED, broadcast on WDSE-TV, Channel 8, from 6:15-6:45 a.m. on Wednesdays, September 11-November 13, and repeated from 7:30-8:00 a.m. on Saturdays, September 14-November 16. Graduate credit available.

WINTER QUARTER (Registration begins November 4)

Elem 5321. SECOND LANGUAGE PROGRAMS FOR YOUNG CHILDREN, broadcast on WDSE-TV, Channel 8, from 6:15-6:45 a.m. on Wednesdays, December 4-February 5, and repeated from 7:30-8:00 a.m. on Saturdays, December 7-February 8. Graduate credit available.

SPRING QUARTER (Registration begins February 12)

GEog 3111. GEOGRAPHY OF MINNESOTA, broadcast on WDSE-TV, Channel 8, from 6:15-6:45 a.m. on Wednesdays, March 11-May 13, and repeated from 7:30-8:00 a.m. on Saturdays, March 14-May 16.

For further information on these courses, call the Department of Independent Study, (612) 624-0000. Also ask about the hundreds of other courses available entirely by mail and open for registration at any time.

Grade records appear on Twin Cities campus transcripts; they can be transferred to UMD transcripts on request.

UMD Facilities

CEE students are encouraged to seek and develop skill in securing the study resources they need from the breadth of resources available to persons in our geographic area.

LIBRARY AND MULTI MEDIA SERVICES

The Duluth Campus Library and Multi Media Services provides students and faculty with the resources required for the teaching and research mission of the University. The physical collection is represented by some 387,000 volumes and 3300 periodicals subscriptions as well as films, filmstrips, and audio and video recordings.

Library staff provide such services as:

- Bibliographical searches of periodical and report literature by computer terminal from all major vendors of automated information.
- A Health Science Collection serves the UMD School of Medicine and offers professional services to the area's medical community through a regional consortium.
- Equipment for playback of audiovisual materials.
- Assistance in doing research for term papers and theses.
- Access to materials located in more than 4000 academic libraries in the United States.
- A Library Officer to assist those with physical or sensory impairments.

During the normal academic year, the Library and Multi Media Services is open approximately 80 hours a week. The hours are extended during exam week.

CEE students have full library privileges and are subject to library regulations.

SCHOOL OF MEDICINE LEARNING RESOURCES CENTER

The Learning Resources Center is located in the School of Medicine Building. The collection of audiovisual instructional resources is housed in this center, and is accessible to medical students 24 hours a day and to other students by referral.

BOOKSTORE

The **UMD Main Street Store**, located on the first floor of the Kirby Student Center, sells textbooks, school supplies, gifts, candy, and office and art supplies. Store hours during the academic year are: 8:00 a.m.-6:00 p.m. Monday-Thursday, 8:00 a.m.-4:30 p.m. Friday, and 11:00 a.m.-3:00 p.m. Saturday. During the first week of every quarter, the Main Street Store is open until 7:00 p.m. Monday-Thursday. The "Cash for Books" Buyback is held during finals week of each quarter in the Kirby Ballroom; hours are 8:00 a.m.-3:30 p.m. Monday-Wednesday, Friday, and 8:00 a.m.-6:00 p.m. Thursday.

The **Bulldog Shop** is the official outlet for UMD clothing and gifts. Located on the second floor of the Kirby Student Center, the Bulldog Shop carries sweatshirts, sweatpants, T-shirts, shorts, jackets, children's clothing, and much more.

UMD Books Etc. carries a large selection of fiction, mystery, science fiction, technothrillers, nature, romance, and more. Also available are greeting cards, posters, magazines, and maps.

COMPUTING SERVICES

UMD Information Services provides complete support for the academic computing needs of students, faculty, and staff at UMD. It operates a network of general-purpose computers on campus, provides access to specialized computers and networks at other locations, and coordinates several microcomputer labs. **Students registered in courses which require them to utilize the main-**

frame computer or a microcomputer in one of the open labs will be assessed a \$60.00 Computer Access Card fee. This card provides unlimited access within an academic quarter. The \$35.00 card provides four hours total access, and remains valid until completely used. Easy and efficient access to these services is supported by a professional staff which provides consulting, programming, and maintenance services directly to student and faculty clients. Specific services include:

- Cost-efficient, general-purpose computing on the Encore Multimax, a large timesharing system running the popular UNIX operating system. This computer supports advanced document processing, laser printing, electronic mail, basic statistics, computer graphics, and artificial intelligence languages in addition to the normal programming tools.
- A suite of specialized statistical, graphics, and database packages on a DEC VAX 8530 running VMS.
- Access to an IBM 4381, a CRAY 2 supercomputer, and other specialized systems through a data network.
- Large microcomputer labs with software for word processing, database, and spreadsheets.
- High-quality laser printing and pen plotting facilities.
- A campus-wide data network (now partially complete) that links these facilities to national services such as BITNET.
- Professional entry of data, programs, and documents.
- Generation and scoring of multiple choice tests.
- Complete consulting and programming service.
- A reduced rate purchase plan for microcomputers.
- Hardware and software maintenance for certain microcomputers and UNIX-based workstations.
- Scheduled backup for information files.
- Planning and coordination of a campus-wide effort to obtain the benefits of advances in computing and communications.

STUDENT HEALTH AND COUNSELING CENTER

The Student Health and Counseling Center is located at 815 East University Circle between Goldfine and Lake Superior Halls. Hours are 8:00 a.m.-4:30 p.m., Monday-Friday. Appointments may be made by calling (218) 726-8155. Students without appointments may have to wait to be fit into the schedule.

Services available to students who have paid the student health fee include general outpatient medical care, gynecologic services, laboratory, x-ray, minor surgery, and sports medicine. Fees for lab, x-ray, and minor surgery can be billed to the patient's medical insurance. Medications are available at a reasonable cost to the student. Psychological counseling is also available, and covers general counseling, chemical abuse issues, eating disorders, and relationship counseling.

Students with after-hours and weekend emergencies are cared for by the emergency physicians at St. Luke's Hospital, (218) 726-5616, or St. Mary's Hospital, (218) 726-4357. These services will be at the student's expense. For emergency transportation, call the campus police, (218) 726-7000, or an ambulance at 911.

CEE students for whom the health service fee is not required may elect to pay the fee and become eligible for all services it covers. For information on fees, call (218) 726-8809.

RECREATIONAL SPORTS FACILITIES

Part-time students who do not pay the student service fee are eligible to purchase a participation pass from Recreational Sports. This pass entitles a person to use the recreational sports facilities (when available) for informal sports and to participate in intramural sports. The pass may be purchased from the Recreational Sports window in the Sports and Health Center (SpHC) lobby or the Equipment Room, 35 SpHC. Lockers and towels may be rented through the Department of Health, Physical Education, and Recreation. For more information, call (218) 726-7128.

Student Services

COUNSELING AND ADVISING SERVICES

Responsibility for curricular decisions rests with the departments providing courses for the certificate programs or degrees. Participants are urged to contact the appropriate UMD college offices or representatives of academic departments and to avail themselves of the advisory services provided. General concerns not related to course selections should be referred to the CEE student counselor. Academic advisement, career goal identification, and career testing are among the many services available. Advisement is available by scheduled appointment during regular office hours at the CEE student counselor's office, and at most UMD academic departments for those seeking information about CEE offerings and assistance in making curricular decisions. Hours for the CEE student counselor are 8:30 a.m.-6:00 p.m. Monday, and 8:30 a.m.-4:30 p.m. Tuesday-Friday.

Each UMD school or college regularly provides advisory services to persons registered in CEE programs. Contact your school or college office for information about advisement procedures.

ACHIEVEMENT CENTER TUTORING CENTER

The Tutoring Center, located in Library 143, provides free, drop-in tutoring to CEE students for mathematics courses ranging from SSP 1003, Basic Mathematics, to Math 1297, Calculus II; Economics, including Econ 1004, 1005, 1203, 1204; and Chemistry, including Aspects of Chemistry, General Chemistry, and Organic Chemistry. Tutoring is provided by undergraduate students selected by their departments and trained by Achievement Center staff. The Tutoring Center is staffed 8:00 a.m.-7:00 p.m. Monday-Thursday, and 8:00 a.m.-2:00 p.m. Friday.

ACHIEVEMENT CENTER WRITING CENTER

The Writing Center, located in Library 143, provides free professional assistance to CEE students through the writing process. This includes computer-assisted instruction to help students improve mechanical skills, and personalized instruction concerning essay format and report writing. The Writing Center is staffed from 8:00 a.m.-7:00 p.m., Monday-Thursday, and 8:00 a.m.-2:00 p.m. Friday.

CAREER AND PLACEMENT SERVICES

Career and Placement Services is a centralized office where students may get professional, confidential help in identifying and achieving career and personal goals. Help is available to deal with academic difficulties; choosing courses, majors and careers; identifying internship possibilities; and learning job-seeking skills necessary to secure satisfying employment upon graduation.

Students are encouraged to consult a career counselor early so they may begin to investigate the world of work in relation to their personal values, interests, and abilities. Counselors have available a number of tests, information about internships and job opportunities, and information about admission to professional and graduate programs. Students may use the Career Resource Center to learn more about different occupations and employers. Appointments may also be made to use DISCOVER, a computerized career guidance program.

Seniors and alumni may file or reactivate placement credentials and take advantage of the many placement services, including receiving listings of job opportunities and interviewing with recruiters from many companies who visit campus each year. Seniors who choose not to register with Career and Placement Services must sign waivers. Students may also get help with resume writing, interviewing, and other job-search skills.

Appointments may be scheduled by writing, calling, or visiting Career and Placement Services at 255 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496, (218) 726-7985.

VETERANS RESOURCE CENTER

Former members of the armed forces and, in some cases, their dependents are entitled to a wide range of benefits. The Veterans Resource Center (VRC) advises veterans about benefits, gives assistance in applying for them, and answers questions concerning eligibility and entitlement.

The VRC helps students find sources of academic and vocational counseling, financial counseling and assistance, tutorial assistance, remedial or refresher training, work-study programs, and reviews military training for college credit.

For assistance, veterans and their dependents should contact the Veterans Resource Center, 102 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496, (218) 726-8791.

Minnesota veterans and their families may obtain information about veterans' benefits directly from the Veterans Administration regional office in St. Paul by calling one of the numbers listed below 8:00 a.m.-4:30 p.m. weekdays.

Duluth	(218) 722-4467
St. Cloud	(612) 253-9300
Twin Cities	(612) 726-1454
Rochester	(507) 288-5888
Other areas (toll free)	1-800-692-2121

STUDENT ID CARDS

UMD student ID cards are available to Extension students upon request. Students wishing to obtain a card should contact the Darland Information Desk located in the lobby of the Darland Administration Building, the CEE registration staff located at the CEE registration windows, or the CEE student counselor. There is no charge for the first card; however, there is a \$10 replacement fee thereafter.



CEE courses are taught by distinguished University faculty.

Financial Information

TUITION AND FEES

CEE offers courses carrying undergraduate resident credits that may be applied to undergraduate programs, and graduate credits that may be applied to graduate programs. All tuition fees are charged on a resident-credit basis; persons living outside the state of Minnesota pay the same tuition fees as those living within Minnesota boundaries. All course or program fees are payable at the time of registration. CEE encourages the use of VISA and MasterCard as a means of payment.

Rates of Tuition Per Credit at the Four Course Levels¹

1xxx	Lower division (all collegiate units)	\$60.75
3xxx	Upper division and graduate	
5xxx	(all collegiate units)	64.50
8xxx	Graduate	136.00

Special Fees

Conferences, special programs, or noncredit program fees	Arranged
Materials or equipment course fees	Varies
Computer Access Card (Unlimited usage within academic quarter)	\$60.00*
(Four hours total access time)	35.00*
Transcripts	3.00

*Students registering in courses which require them to utilize the mainframe computer or a microcomputer in one of the open labs will be assessed the \$60.00 Computer Access Card fee. Students should contact the CEE registration window, 104 Darland Administration Building, (218) 726-8809, to determine if this fee is required for their particular course.

Students registering for graduate credit in 5xxx-level CEE classes must pay Graduate School tuition rates for all classes which will become part of the student's Graduate Program. Students should pay this tuition at the time of registration for all such courses. If the student pays the undergraduate CEE tuition rate and later applies that class to the Graduate Program, a differential fee will be charged. The tuition difference to be charged will be the difference between the rates in effect at the time the credits are transferred to the Graduate Record, regardless of when the student took the courses or registered for the courses.

Consult the description of the CEE course or program in which you intend to register to determine the exact registration charge.

Auditors pay the same fees as those registering for credit.

Business firms may arrange to have direct billing of registration fees for their employees who are enrolled in CEE classes. Contact the CEE registration window, 104 Darland Administration Building, Duluth, MN 55812-2496, (218) 726-8809.

LATE REGISTRATIONS AND ADDITIONS

Enrollment fees mailed or delivered in person to a CEE registration window after the close of any CEE registration period are subject to late fees, determined according to the following schedule:

First week of the quarter or program	\$10.00 (if accepted)
Second week through end of the sixth week of the quarter	20.00 (if accepted)

The CEE director reserves the right to cancel the late fee for any course or special program held at a location other than UMD.

It is the responsibility of the participant to obtain permission from the course instructor or program director to enter a course or program after it has progressed past the first meeting.

TRANSFERS

Participants transferring classes after their initial registration are subject to an additional fee, determined according to the following schedule:

Prior to and during the second week of the quarter	None
During or after the third week of the quarter	\$10.00 (if accepted)

To transfer from one class to another, present your fee statement at a CEE registration window. A transfer fee is not required if the University requests the transfer, if the transfer is required because of inadequate or unsatisfactory prerequisite work, or if the transfer is required because the course in which the participant has previously registered has been cancelled, provided the transfer is completed within one week from the date of the class cancellation. Classes may not be added or transferred after the second week of class without written permission from the instructor.

SENIOR CITIZEN REGISTRATION

The Senior Citizen Higher Education Program (SCHEP) entitles all legal residents of the state of Minnesota, age 62 or older, to participate on a noncredit basis in CEE classes without payment of tuition when space is available after all tuition-paying students have been accommodated. If a course is taken for credit, a fee of \$6.00 per credit is charged. The enrollee must have completed specified prerequisites and must pay any book, laboratory, and materials fees. The SCHEP does not pertain to seminars, workshops, or non-credit programs conducted by CEE; full payment of registration fees is required for these programs.

CANCELLATIONS AND REFUNDS

Cancellations of registrations must be completed by mail or at a CEE registration window. A cancellation is effective on the date the completed cancellation request is postmarked for mail delivery or is presented in person at the registration window.

A refund for a cancelled class of 10 or more weeks in duration is granted according to the following schedule:

A cancellation completed before or during the first week of the quarter	100%
A cancellation completed during the second week of the quarter	75%
A cancellation completed during the third week of the quarter	50%
A cancellation completed after the third week of the quarter	0%

Participants must officially cancel their registration for a class in which they no longer intend to participate. Students who never attend class or stop going to class are not considered cancelled until they officially cancel by mail or at a CEE registration window. A cancellation completed before the end of the sixth week results in a W on the grade report. A later cancellation may result in the same designation if the participant's classroom performance is at a passing level. Participants are advised to inform their instructor of the reasons for their cancellation. **Cancellation by telephone is not acceptable.**

A full refund of all tuition and special fees will be made: when a class is cancelled by the CEE director; when the hour or day of the class is changed by the CEE director after an individual has registered in it; or when, in the opinion of the instructor, the individual does not have the necessary prerequisites or has already studied the equivalent material in another class. In the last case, the registrant must, before the end of the second week of classes:

¹Subject to approval by the Board of Regents. Rates are subject to change without notice.

- Ask the instructor to write an appropriate statement.
- Present the instructor's statement and the registration confirmation at a CEE registration window. After the second week of classes, the regular refund regulations will apply.

The participant is responsible for obtaining and presenting all evidence for a cancellation.

A full refund of all tuition and special fees will also be made to any person who has been recalled to or has enlisted in military service upon presentation of military orders, provided the individual could not complete the coursework and receive a grade at such time.

A participant who has been ill or hospitalized and wishes to be considered for a full refund should obtain a doctor's statement indicating that he or she was unable to continue for medical reasons.

Late fees are not refundable.

Note: Students who withdraw from classes prior to picking up their financial aid will be responsible for the tuition and fees that would not be refundable based on the refund policies described above.

FINANCIAL AID

Eligibility for all financial aid programs requires official admission to the University of Minnesota or to the Combined CEE-Day Program. Students wishing to apply for admission to the University of Minnesota should contact the Admissions Office, 184 Darland Administration Building. Students wishing to apply to the Combined CEE-Day Program should contact the CEE student counselor. The Combined CEE-Day program is appropriate for those students who will complete all of their coursework through CEE classes.

Students who plan to attend at least half-time must file the Family Financial Statement (FFS) each year to be considered for financial aid. The FFS application is available January 1 preceding the next academic year. Applications completed prior to March 31 will receive priority funding for the next academic year. For more information, see the *UMD General Bulletin* or contact the Information Desk in the Lobby of the Darland Administration Building, (218) 726-8850.

Students who plan to attend at least half-time, but less than full-time, must file either the FFS requesting federal aid only or complete the Application for Federal Student Aid (Pell Grant) booklet. In addition to the Pell Grant, less than half-time students (1-5 credits) may qualify for the following aid program:

Minnesota Part-Time Student Grant Program—An eligible student must have established at least a one-year residency in Minnesota for purposes other than obtaining an education; must have United States permanent resident status; must not have a previous bachelor's degree; must have maintained good academic standing; is not eligible to receive other educational grants or scholarships; and can demonstrate financial need within the guidelines established for the program. Financial need criteria are based on the income of the previous tax year, although present-year income may be utilized in certain mitigating circumstances. Present ceilings for adjusted gross income, including taxable and non-taxable income, are:

One-member family	\$11,750 ¹
Two-member family	15,725 ¹
Three-member family	19,525 ¹
Four-member family	24,200 ¹
Five-member family	26,000 ¹
Six-member family	27,950 ¹
Seven-member family	30,100 ¹
Eight-member family	32,100 ¹
Nine-member family	34,425 ¹

Tuition, transportation, books and supplies, and child care are currently covered.

¹Incomes listed may change by Fall 1991.

Financial aid eligibility is based on the credit load at time of check disbursement. Students who withdraw prior to picking up their award will not receive any financial aid funding. Students will be responsible for time-in-attendance costs based on the refund policy.

Further information, application forms, and assistance for part-time student financial aid programs can be obtained from a financial aid counselor, 139 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496, (218) 726-7500.

TUITION DEFERMENTS

Only those students receiving financial aid through the UMD Office of Financial Aid will be considered for delayed payment of tuition. Students are responsible for completing all necessary financial aid procedures before requesting a delayed payment.

Eligible students may request delayed payment at the time of registration, and will be given a fee statement reflecting payment due dates. See the section on **How and When to Register** for specific registration procedures.

Receiving delayed payment does not guarantee the receipt of financial aid. Students who do not receive their expected financial aid are still responsible for payment of their tuition and fees. A student who never attends class or stops going to classes: 1) must officially cancel at a CEE registration window, and 2) must pay that part of the tuition and fees that would not be refundable based on the refund policies described above.

SCHOLARSHIPS

Remington Scholarship—The Gilford W. and Esther F. Remington Scholarship Fund was established by Mrs. Remington to provide financial assistance each year to students enrolled through Continuing Education and Extension (CEE) on the Twin Cities campus and through CEE on the Duluth campus. Preference is given to students in the fields of history, education, art, and audiovisual education. Funds are administered through CEE Counseling. Applications are available in June. For more information, contact CEE Counseling Office, 314 Nolte, 315 Pillsbury Drive S.E., Minneapolis, MN 55455, (612) 625-2500.

CEE Outstanding Student Scholarships—Two scholarships are awarded each academic year to outstanding CEE students. The \$500 scholarships must be used for CEE tuition at any time during the 1991-92 academic year and can include either graduate or undergraduate study.

Admission to a degree or certificate program is not a requirement, although registration in degree or certificate classes is required. Scholarships are not applicable to registration in day school classes, and day school students who are cross-registered into CEE are not eligible.

For further information on these scholarships, contact the CEE student counselor.

Carole E. Macpherson Memorial Scholarship—Scholarships are available for re-entry women. Recipients must be Minnesota residents, have at least a five-year gap in education, be admissible to a University of Minnesota degree program, and be 28 years of age or older. Applications are available in January, and are due in mid-March. For more information, contact Macpherson Scholarship, 5 Eddy Hall, 192 Pillsbury Drive S.E., Minneapolis, MN 55455, (612) 625-2874.

Tuition Assistance Program—Scholarships are available through the CEE Tuition Assistance Program to a limited number of low-income adults who wish to attend CEE classes. The assistance covers full tuition for a maximum of five credits per quarter. Eligibility is based on monthly net income, number of dependents, and special expenses.

Regents' Scholarships—The Regents' Scholarships program provides an opportunity for eligible University of Minnesota Civil Service and union-represented employees to take University classes tuition-free. (Graduate student course work is subject to taxation.) Eligible employees are those working at least 75 percent-time in an ongoing or temporary appointment; working 100 percent-time during the period for which they apply for a scholarship if on a 9-month or 12-month appointment; and those on maternity or other leaves without pay. Employees on student or academic appointments, family members of University employees, and laid-off employees are not eligible for Regents' Scholarships.

Tuition is waived. Normally required student services fees do not have to be paid unless the employee wants to purchase and use the service. Regents' Scholarships do not cover retroactive tuition, late fees, course fees, lab fees, books, deposits, records fees for establishing new student files, orientation fees, CEE special fees, or Student Health and Counseling Center fees.

Students registering for graduate credit should indicate when they register that the Regents' Scholarship is to be applied to graduate-level tuition.

A wide range of courses are approved for Regents' Scholarships, both in day school and CEE on a space-available basis, but they must be taken for credit. However, Regents' Scholarships will not cover Individual Extension Classes offered by the Duluth Center CEE, nor will they cover noncredit seminars, conferences, or workshops offered by the Center for Professional Development. Also not eligible for Regents' Scholarships are Independent Study, TV, and correspondence courses offered by CEE Independent Study in Minneapolis.

A separate application must be completed for each course. (Employees may take as many classes for credit per term as their department approves.) The applicant's signature as well as the signatures of both the supervisor and department head are required (both signatory spaces must be completed). Applications should be sent to University Personnel, Room 220, Administrative Services Center, 1919 University Avenue, St. Paul, MN 55104, (612) 624-7054.

Applications are processed within 48 hours and returned by mail. There are no exceptions to the process time and mailing policies; please plan accordingly to avoid late fees. Check with your supervisor for special departmental policies concerning Regents' Scholarships. For information or additional forms, call UMD Personnel at (218) 726-7161.

Students with Regents' Scholarships for nonlimited-enrollment courses may register by mail or in person during regular registration periods. See **How and When to Register** for dates and registration hours for each term. Be sure to include the approved Regents' Scholarship form, completed registration form, and a check made payable to the University of Minnesota for special, course, or late fees (if any) when completing registration by mail.

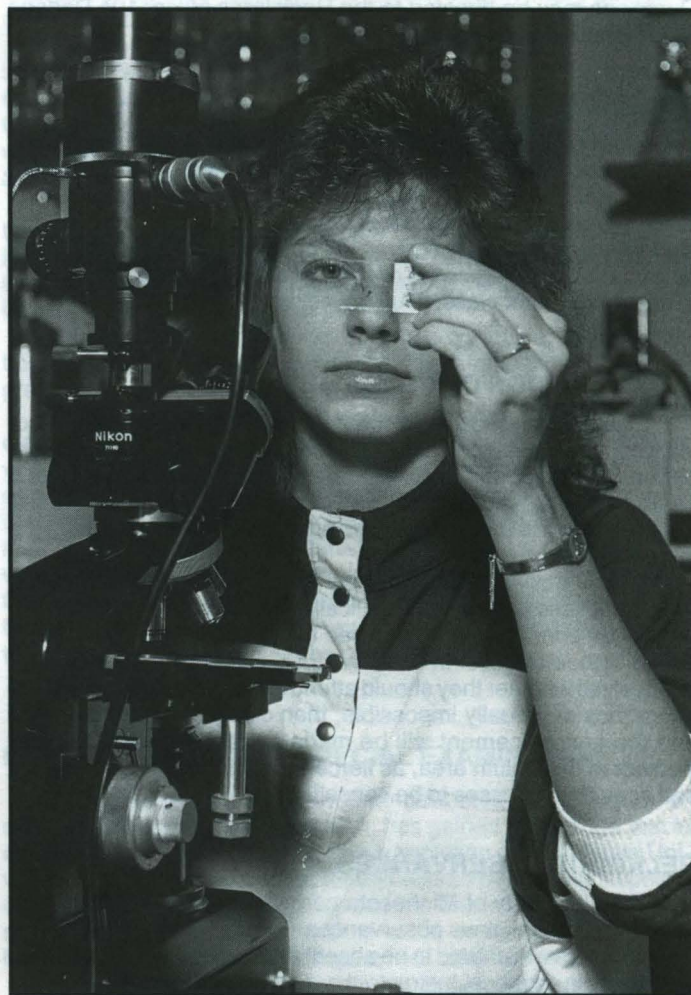
Graduate Assistant Tuition Fellowship Program—Graduate students and professional trainees who hold appointments as teaching assistants, research assistants, administrative fellows, and certain other professional school student positions may receive tuition fellowships for CEE classes. For eligibility information, contact the Graduate School, 431 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496, (218) 726-7523.

A wide range of courses are approved for the Graduate Assistant Tuition Fellowship Program, both in day school and CEE on a space-available basis, but they must be taken for credit. However, the Graduate Assistant Tuition Fellowship Program will not cover Individual Extension Classes offered by the Duluth Center CEE, nor will they cover noncredit seminars, conferences, or workshops offered by the Center for Professional Development. Also not eligible for the Graduate Assistant Tuition Fellowship Program are Independent Study, TV, and correspondence courses offered by CEE Independent Study in Minneapolis.

Academic Staff Tuition Benefit—Faculty and professional administrative employees holding academic appointments of 75 percent or more may register tuition-free in CEE classes in which space is available. Approval and employment verification from the employee's department head is required. Only tuition is waived; late fees, course and special fees, books, laboratory fees, and other costs must be paid by the employee. Certification forms and eligibility and registration information are available from department heads.

A wide range of courses are approved for the Academic Staff Tuition Benefit, both in day school and CEE on a space-available basis, but they must be taken for credit. However, the Academic Staff Tuition Benefit will not cover Individual Extension Classes offered by the Duluth Center CEE, nor will they cover noncredit seminars, conferences, or workshops offered by the Center for Professional Development. Also not eligible for the Academic Staff Tuition Benefit are Independent Study, TV, and correspondence courses offered by CEE Independent Study in Minneapolis.

Business Firms—Many business firms are willing to help subsidize the education of their employees. Before registering, students are urged to talk with their company's personnel officer about possible tuition payment or reimbursement for CEE classes. Business firms may arrange to have registration fees billed directly for those employees who are enrolled in CEE classes by submitting a letter of authorization at the time of registration. For more information, contact CEE Registration, 104 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496, (218) 726-8809.



Students registering directly with CEE have priority enrollment status in CEE classes.

Policies

CLASS ATTENDANCE

Persons who cannot attend the first class session must contact the instructor or risk forfeiting their position in the class. This is particularly true in high-demand classes.

Students are responsible for attending the classes in which they are registered. Persons who cannot attend a class session should arrange in advance for alternative study activity with their instructor.

ACCESS TO STUDENT EDUCATIONAL RECORDS

In accordance with regents' policy on access to student records, information about a student generally may not be released to a third party without the student's permission. The policy also permits students to review their educational records and to challenge the contents of those records.

Some student information—name, address, telephone number, dates of enrollment and enrollment termination, college and class, major, adviser, and degrees earned—is considered public or directory information. To prevent release of such information outside the University while in attendance at the University, a student must notify the records office on his or her campus.

Students are notified annually of their right to review their educational records. The regents' policy, including a directory of student records, is available for review at the Registrar's office. Questions may be directed to the Registrar's office, 104 Darland Administration Building, (218) 726-7500.

COURSE CANCELLATIONS

While CEE sincerely regrets to do so, it is sometimes necessary to cancel classes with insufficient enrollment. The CEE director reserves the right to cancel any course in which the registration is insufficient to warrant its continuation. If a class is cancelled, the student will be notified and given the opportunity to transfer into another class without a late fee or penalty. If the student does not want to enroll in another class, a full refund will be given.

CANCELLATION OF CLASS MEETINGS

Extension classes are rarely cancelled for any reason, including weather. However, in the event that Extension classes are cancelled, an announcement will be broadcast on all local radio stations by 4:00 p.m. on the day in question. Listen for the announcement; it is the quickest and easiest method of obtaining the information.

If UMD day school classes are cancelled for a given day, Extension classes are also automatically cancelled for that same day.

When conditions are no worse than difficult, most instructors will be in their classes. In such weather, students must decide for themselves whether they should attend class. When conditions are dangerous or virtually impossible, then classes will be cancelled and the announcement will be made on radio stations. Winter weather in the Duluth area, as fierce as it is sometimes, is seldom bad enough for classes to be cancelled.

RELIGIOUS OBSERVANCES

The University of Minnesota permits absence from class for participation in religious observances.

Students who intend to be absent from class should notify their instructors in advance. Instructors are requested to assist such students in obtaining course materials and assignments distributed during the class sessions. Students themselves are responsible for obtaining class notes from other students who are present.

PARKING REGULATIONS

Parking is permitted without a parking decal in general parking areas after 4:30 p.m. Students should not park in restricted areas marked "Reserved Area" or "Designated Reserve." Meter fees are not required after 5:00 p.m. or on weekends. No overnight parking is allowed in campus lots. All illegal parking will be ticketed.

SMOKING POLICY

The University of Minnesota Duluth joined a regional and national trend by prohibiting smoking in most campus buildings, effective June 1, 1991. The policy is based on a recommendation by the UMD Campus Assembly, with input from a campus study group and an open forum sponsored by the Student Association.

Smoking is prohibited in all indoor facilities, including faculty and staff offices and the Kirby Student Center cafeteria. The ban also includes all University vehicles.

SEXUAL HARASSMENT

Policies and procedures pertaining to sexual harassment are governed by the All-University Policy Statement on Sexual Harassment as approved by the University Senate on May 17, 1984, and the Faculty Bargaining Unit Policy on Sexual Harassment in the agreement of July 1, 1989, section 103.00.

As the introduction to the All-University Policy states, sexual harassment subverts the mission of the University and threatens the careers of the students, faculty, and staff. For purposes of this policy, sexual harassment is defined as follows:

"Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature constitute sexual harassment when (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic advancement, (2) submission to or rejection of such conduct by an individual is used as the basis for employment or academic decisions affecting such individual, or (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment."

The policies on sexual harassment apply to the entire University and to the conduct of students, civil service staff, academic staff, and administrators. The responsibility for administering the policies varies, however, with the status of the respondent.

Individuals seeking information and guidance in matters involving sexual harassment should contact the UMD Equal Opportunity and Affirmative Action Officer, 247 Darland Administration Building (726-6520) or the Sexual Harassment Educator and Counselor, Bohannon Hall (726-6232). All inquiries will be held in strict confidence.

RACIAL OR ETHNIC HARASSMENT

The University of Minnesota is committed to providing equal access and opportunity to all persons without regard to race, religion, color, sex, national origin, handicap, age, veteran status, or sexual orientation.

As recently as December 14, 1990, the Board of Regents and President of the University reaffirmed this policy and renounced recent incidents of racial harassment.

Racial or ethnic harassment includes (1) using racial or ethnic slurs against a student, University employee or visitor, (2) posting written or graphic material that is intended to be derogatory of a racial or ethnic group, (3) defacing signs or other property in a way that is intended to be derogatory of a racial or ethnic group, and (4) making mail or telephone communications that harass an individual because of the individual's racial or ethnic identity.

Individuals who are the victims of or witnesses to racial or ethnic harassment should immediately notify University Police (726-7000) or the Department of Personnel and Affirmative Action (726-6326).

III. ADMISSION AND ACADEMIC INFORMATION

Admission

CEE programs are open to all who might benefit from participation. Registrants need not possess a high school diploma. They may, however, be required to meet specific academic standards to be eligible for some financial aid programs and for entry into selected advanced courses or special activities.

Prerequisites

Prerequisites are listed as aids, not obstacles. Students gain a deeper appreciation of an advanced course if they have completed the prerequisite work. They may also benefit both the teacher and the class by having this background. Course prerequisites, if any, are listed in the course descriptions.

Usually there are no prerequisites for beginning courses. However, if these courses have two or more parts, the parts must be taken in sequence unless otherwise indicated. Most advanced courses do have prerequisites and cannot be completed satisfactorily unless students have completed the stated prerequisite courses or their equivalents. In some instances, students who have had a reasonable equivalent of study, training, or experience related to a course may be exempted from a prerequisite by the instructor. Students are advised that a *prerequisite course usually may not be taken for credit after the advanced course has been satisfactorily completed.*

If you are in doubt about your preparation for a course, but believe you are qualified, register for the course and consult the instructor at the first class session. If the instructor decides that you are not qualified, the instructor's written statement to this effect will permit you to transfer to another course without penalty or to cancel with a full refund, provided this action is taken before the end of the second week of classes.

Auditors

A person who does not wish to be evaluated on the required work of a class may register as an auditor by writing the number of credits in the "Grade Option" column of the registration form. An auditor is expected to attend class. Auditors do not earn credit for a course. They pay the same tuition and fees as students registered for credit.

Requests for change from credit registration to audit registration must be made in person or by writing to the CEE director prior to the end of the second week of a quarter.

A student whose tuition and fees are paid in whole or in part by military, Veterans Administration, company, or scholarship funds may register as an auditor only if written consent allowing such registration is given by the sponsoring agency.

Credits

All credits listed in the course descriptions are quarter credits, regardless of term length. They may be applied to a degree program at the University of Minnesota Duluth, unless otherwise specified, provided all other conditions are met.

Residence—Credits earned in undergraduate evening classes are residence credits; however, until students have been formally admitted to the college from which they expect to earn a degree, these credits are not considered to meet the residence requirements of that college.

Use at Other Institutions—The acceptance and applicability of credits earned in CEE toward a degree at another institution is determined by that institution.

TRANSFER OF CREDITS

Credits earned in UMD academic programs provided by CEE are entered on a University of Minnesota transcript. A student wishing to have degree credits sent to another institution must make a written request through the Office of the Registrar, 104 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496.

GRADUATE SCHOOL CREDITS

Graduate students are required to complete at least 60 percent of the coursework for their official degree programs as registered Graduate School students. Transfer of up to 40 percent of the degree coursework from other recognized graduate schools, or from adult special, summer special, and Continuing Education and Extension status at the University of Minnesota, in any desired combination, is permitted. Credit for courses completed through independent (correspondence) study, and credit for courses completed through extension or special categories at other institutions, may not be transferred. The work being transferred must be graduate level, must have been taken for graduate credit, and must have been taught by faculty members authorized to teach graduate courses. Requests for transfers are subject to approval by the student's graduate adviser and the director of graduate studies of the major (and the director of the graduate studies of the minor if the courses are to be applied to a designated minor). Individual graduate programs may, at their option, specify more stringent requirements.

Persons intending to pursue graduate work through CEE should be familiar with the instructions in this bulletin and in the *Graduate School Bulletin*, which may be obtained from the UMD Graduate School office, 431 Darland Administration Building, or by writing to the Graduate School, 316 Johnston Hall, 101 Pleasant Street S.E., Minneapolis, MN 55455.

The master of education degree program at UMD, administered by the College of Education and Human Service Professions, is tailored to meet professional needs in a personalized and individualized manner. In keeping with the goals of the program, the number of CEE credits accepted is flexible.

Persons pursuing graduate degree programs at other institutions are responsible for clearing their registrations with their degree-granting institutions.

Students registering for graduate credit in 5xxx-level CEE classes must pay Graduate School tuition rates for all classes which will become a part of the student's Graduate Program. Students should pay this tuition at the time of registration for all such courses. If the student pays the undergraduate CEE tuition rate and later applies that class to the Graduate Program, a differential fee will be charged. The tuition difference to be charged will be the difference between the rates in effect at the time the credits are transferred to the Graduate Record, regardless of when the student took the courses or registered for the courses.

EARNING CREDITS BY SPECIAL EXAMINATION

A student who, through independent study, experience, or study at a nonaccredited institution, has gained knowledge that is equivalent to that acquired through completion of a particular University course may earn credit for that course by passing a special examination on the content of the course. The individual must be a registered CEE student at the time of the examination and must have the consent of the UMD department offering the course.

Further information about special examinations is available from the Office of the Registrar, 104 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496, (218) 726-7500.

Grades

There are 11 permanent grades—A (highest), A-, B+, B, B-, C+, C, C-, D+, D (lowest), and P (ungraded, but of at least D-level performance)—that may be assigned when a student successfully completes the work for a course.

There are two permanent grades—F and N—that may be assigned when a student does not successfully complete the work for a course.

The temporary grade I (incomplete) is assigned only when a student has made an agreement with the instructor to complete the requirements for a course prior to the time the instructor submits final grades for a quarter. The I remains in effect for six weeks after the beginning of the next quarter in which the student is in attendance, unless a different time period has been arranged between the student and instructor. At the end of this period, the I will be changed to an F or N unless the instructor has submitted a change of grade or has agreed to an extension of the incomplete. If an extension is permitted, it is the responsibility of the student to obtain the Extension of Incomplete form, obtain the instructor's signature, and submit the form to the registrar prior to the deadline.

The permanent symbol W designates withdrawal from a course and is posted by the registrar only on the basis of an official cancellation. Courses cancelled during the first two weeks of the quarter are deleted from the record. Courses cancelled during the third through sixth weeks are noted with a W on the transcript. A W is assigned after the sixth week only if the student submits a cancellation request to a CEE registration window and is doing satisfactory work at the time of the request. A student who cancels officially after the sixth week of classes and is not doing satisfactory work will receive an F or N.

A symbol X is reported in continuing courses for which a grade cannot be determined until the sequence is completed. The instructor will submit a grade for each X when the student has completed the entire sequence.

Courses at UMD are graded under one of three systems: mandatory letter grading, mandatory P-N grading, and optional grading in which a student may select either letter grading or P-N grading. With optional grading, students make their selection of grading system at the time of registration. Changes from the original selection may be made during the first two weeks of the quarter by following the cancel-add procedure. The following restrictions apply to the various grading options:

- A student seeking a bachelor's degree must earn a minimum of 120 credits in letter-graded courses.
- A student may not elect P-N grading in courses that are used to fulfill his or her major or minor requirements.
- No more than 10 credits may be taken under the P-N grading option during any one quarter, with the exception of the quarter during which a student seeking teaching licensure is engaged in practice teaching.
- No more than 15 credits of P-N graded courses may be applied toward liberal education requirements, and no more than 5 such credits may be applied in any one of the four liberal education categories.
- A course that is taken for credit in areas of required high school preparation (two years in a single foreign language, two years of algebra) by a student with preparation equal to or in excess of that specified may be taken only under P-N registration.

Graduate School Grades—The Graduate School uses two grading systems, A-B-C-D-F and S-N. Except in courses in which grading has been restricted to one system or the other, students have the option of choosing the system under which they will be graded. Students must declare a grade option as part of their initial registration. Instructors are obligated to explain to their students the level of achievement necessary to earn an S grade.

GRADE POINT AVERAGES

For purposes of determining a grade point average, grade points are assigned to the permanent grades as follows: for each credit of A, 4.00 grade points; A-, 3.70 grade points; B+, 3.30 grade points; B, 3.00 grade points; B-, 2.70 grade points; C+, 2.30 grade points; C, 2.00 grade points; C-, 1.70 grade points; D+, 1.30 grade points; D, 1.00 grade point; F, 0.00 grade points. A student's grade point average is determined by dividing the sum of grade points earned by the sum of credits attempted, both passed and failed. Credits attempted in classes taken on the P-N grading system are not included in calculating the grade point average.

ACADEMIC PROGRESS

Students with a cumulative grade point average of less than 2.00 or a continuing inability to complete courses successfully might not be considered in "good academic standing." This accumulation of substandard work will jeopardize eligibility for financial aid, veterans' benefits, or other funding programs which require satisfactory academic progress. Insufficient academic progress may also mean failure to meet admission criteria for degree programs or majors both within and outside the University of Minnesota. In addition, the substandard course work may not be transferable to other programs or institutions. Students who are admitted to a degree program at the University of Minnesota Duluth will be held to the academic standards of that college. Students are encouraged to contact the CEE student counselor for further information and assistance in reviewing options, study skills, and steps which might improve academic standing.

GRADE REPORTS AND TRANSCRIPTS

Academic records for recent CEE participants are housed in the Registrar's office in the Darland Administration Building. Students may receive a copy of their official transcript by sending a written authorization to the Office of the Registrar, 104 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496. The fee for transcripts is \$3.00 per copy for official transcripts; there is no charge for unofficial transcripts.

Grade reports are sent to participants after the grades are recorded—about four weeks after the close of the term in which the courses were taken. Persons desiring earlier notification of their grades may supply a self-addressed, stamped postcard to each of their instructors, who are asked to use the postcard to inform students of their grades when the grades have been determined.

Transfer to Degree Programs at UMD

A CEE student may apply for admission to UMD as a Combined CEE-Day student. Admission requirements are identical to day school requirements. Eligible students are those who:

- must be admitted for financial aid eligibility.
- must be admitted to establish a permanent record for the processing of transfer work from other institutions.
- are seeking a degree.

A CEE student may also apply for admission to UMD as a regular day school student. Students who want to transfer to day school enrollment should refer to the *UMD General Bulletin* for admission requirements, guidelines for program completion, and additional information.

In either case, students are encouraged to declare their "intent to major" when they have completed between 84 and 105 credits, including the required liberal education credits and prerequisites for the major and minor; and they should have at least a 2.00 (C) average.

COLLEGE OF EDUCATION AND HUMAN SERVICE PROFESSIONS

The College of Education and Human Service Professions accepts both undergraduate and graduate-level credits earned through CEE. In-service educators may apply credits earned through CEE to the Master of Arts in Education program and the Master of Education Degree program with certain restrictions.

The College of Education and Human Service Professions maintains an office to coordinate the CEE courses, conferences, and institutes it offers. Questions may be directed to the College of Education and Human Service Professions, 125 Bohannon Hall, 10 University Drive, Duluth, MN 55812-2496, (218) 726-7131.

SCHOOL OF BUSINESS AND ECONOMICS PROGRAMS

Students enrolled in CEE who expect to earn a bachelor of business administration or bachelor of accounting degree from UMD are responsible for fulfilling degree requirements as outlined in the *UMD General Bulletin*.

The residency requirements for students enrolled in CEE at UMD are waived. However, every student who graduates with a School of Business and Economics degree must have been admitted to the school. Please contact the CEE student counselor for details on admission procedures.

The admission to candidacy requirement must be met. All students must apply for admission to candidacy after completing the required 90 lower division (prebusiness) credits. To be admitted to candidacy, students must meet the competitive grade point average requirements of the school (see the current *UMD General Bulletin*).

When students near graduation, usually the quarter before the one in which coursework will be completed, they must submit a graduation plan. The plan indicates the remaining courses to be completed for the degree. The plan is evaluated by the assistant to the dean for student affairs and is submitted for clearance to the appropriate department head. Students receive a copy of the clearance papers. Students must also contact the Registrar's office to file the application for the degree by the established deadline.

Necessary forms are available in 104 School of Business and Economics Building. For questions or help, contact the assistant to the dean for student affairs, 104 School of Business and Economics Building, (218) 726-6118.

MASTER OF BUSINESS ADMINISTRATION

The School of Business and Economics and the Graduate School offer a master of business administration degree. The MBA program is specifically designed for college graduates who are pursuing professional managerial careers and is targeted to the part-time student who is currently employed and only able to take courses in the evening.

To be considered for admission to the MBA program, an applicant must have a bachelor's degree from a recognized college or university, must take the Graduate Management Admission Test (GMAT), and must submit an application to the Director of the MBA program, 150 School of Business and Economics. The bachelor's degree may be in any subject field, such as engineering, education, the social sciences, or the arts.

Degree Requirements—At least 45 quarter credits of graduate courses are required and are listed below. These courses must include an integrated core of required courses totaling 27 quarter credits and 9 credits in research project-related courses (research methodology and management research). The required research project includes the submission of a written report and oral defense of the project. A total of 9 elective credits is required.

Students who have had little or no undergraduate coursework in business administration are required to complete prerequisite courses in accounting, legal environment, management, management science, finance, marketing, and economics. Prerequisite deficiencies may be removed prior to admission to the MBA program or during the course of enrollment in the program. No graduate credit and no credit toward MBA program requirements can be received for prerequisite courses.

Required Courses:

- MgtS 8111. Business, Government and Society (3)
- FMIS 8211. Management Science (3)
- MgtS 8311. Policy Formulation and Implementation (3)
- FMIS 8611. Financial Management (3)
- MgtS 8711. Marketing Management (3)
- MgtS 8810. Management of Human Resources (3)
- MgtS 8011. International Business Environment (3)
- OR
- MgtS 8801. Organizational Behavior and Human Performance (3)
- Acct 8512. Management Accounting (3)
- Econ 8411. Managerial Economics (3)
- MgtS 8901. Research Methodology (3)
- MgtS 8911. Management Research (3)
- Electives (9)

For more information on the MBA program, please contact the Director of the MBA program, 150 School of Business and Economics, 10 University Drive, Duluth, MN 55812-2496, (218) 726-7281.

IV. CERTIFICATE PROGRAMS

Students not certain they can devote the time necessary to earn a college degree may wish to consider a certificate program. Some certificate programs are regarded by business and industry as valuable professional and technical preparation for employment and promotion. Students are encouraged to consult with employers regarding the usefulness of the certificate in seeking new employment or possible promotional opportunities. With careful planning, certificates can be a stepping-stone to a degree.

A number of certificate programs are offered by CEE. Curricula are described in detail on the following pages. Certificate programs deal with college-level studies; students entering them should have adequate educational preparation or other experience to work effectively with college materials.

For the most part, the certificates offered may be completed in CEE classes; however, work on a program may also be done through independent study, day school, summer session, or any combination of these. Except where noted, a student may also transfer credit from other accredited institutions of higher education, although a minimum of 25 percent of the credits required for any certificate must be earned at the University of Minnesota.

Certificate requirements may be modified from time to time. Students are bound to the requirements in force at the time they are formally admitted to the certificate program. Although there is no time limit on the use of credits, a certificate may be discontinued. The University will make every reasonable effort to assist admitted students in completing a program.

A student interested in pursuing a certificate program is urged to secure a copy of *Procedures for Obtaining a Continuing Education and Extension Certificate*, and to complete an Application for Admission to Certificate Programs form as soon as possible so that proper counseling can be obtained. A nonrefundable application fee will be required at the time of application. Advice and information about the various programs may be obtained from the CEE student counselor.

A student nearing completion of the required work and expecting to receive a certificate must file a Certificate Completion form at the beginning of the term in which the certificate is to be awarded. A nonrefundable fee will be required with the completion form. Upon completion of a specified program with at least a C (2.0) overall average (including a 2.0 grade-point average in University of Minnesota courses), the student is awarded a certificate. Certificates are awarded by CEE (not by individual University of Minnesota colleges). Further information can be obtained from the CEE student counselor, 255 Darland Administration Building, 10 University Drive, Duluth, MN 55812-2496, (218) 726-7985.

Continuing Education and Extension Honors—All CEE certificates may be earned with honors. A student earning an overall grade point average of 3.00-3.49 in University of Minnesota credits within the certificate will be awarded a certificate "with distinction." A student earning an overall grade point average of 3.50 or higher in University of Minnesota credits within the certificate will be awarded a certificate "with high distinction." A student must take at least 60 percent of his or her certificate course work on the A-F grading system. At least 60 percent of the requirements for a certificate with honors must be earned at the University of Minnesota.

Colleges at the University of Minnesota retain the right to determine honors requirements for a degree; therefore, earning a certificate with honors does not mean a student will automatically gain entry into a college's honors program. For further information concerning the honors program for certificate students, call the CEE student counselor.

Accounting Certificates

The Junior Accounting Certificate program is of value to individuals with junior accounting positions in industry, to management personnel who are required to deal with common finance and accounting data, and to business persons who wish to have a basic

grounding in and understanding of the elementary principles of accounting and corporate finance.

The courses required for the Senior Accounting Certificate include nearly the same background in accounting practice and theory that is covered by students who graduate with a four-year degree with specialization in this field. For the person with a baccalaureate degree, the senior certificate provides a sound background for the continuation of independent study in preparation for the Certified Public Accountant and the Certificate in Management Accounting examinations.

In both the Junior and Senior Accounting Certificate programs, it is possible to move from a course of study for a certificate in accounting into a planned program leading to a bachelor of accounting (B.Ac.) degree. In order to avoid or minimize taking courses that may not be included in the B.Ac. degree program, anyone who contemplates such a long-range objective should consult an adviser in the Department of Accounting before proceeding further.

JUNIOR ACCOUNTING CERTIFICATE

Total Credits: 50

Students transferring credits to this program from other accredited institutions must take a minimum of 12 credits in accounting courses at the University of Minnesota Duluth.

Required Courses (43 credits):

- Acct 1511. Financial Accounting I (3)
- Acct 1512. Financial Accounting II (3)
- Acct 3101. Computer Applications in Accounting (2)
- Acct 3501. Intermediate Accounting I (4)
- Acct 3507. Cost Accounting I (4)
- Comp 1120. College Writing (5)
- Econ 1004-1005. Principles of Economics: Micro/Macro (8)
- FMIS 1201. Introduction to Business Information Systems (4)
- FMIS 3611. Corporation Finance (4)
- Math 1156. Finite Mathematics (4)

Electives: A minimum of 9 credits in upper division Accounting, Finance and Management Information Sciences (FMIS), or Management Studies (MgtS) courses, of which one course must be in accounting and one course in another subject.

SENIOR ACCOUNTING CERTIFICATE

Total Credits: Minimum of 100

Students transferring credits to this program from other accredited institutions must take a minimum of 24 credits in accounting courses at the University of Minnesota Duluth.

Required Courses (79 credits):

- Required courses for the Junior Accounting Certificate (43)
- Acct 3502. Intermediate Accounting II (4)
 - Acct 3503. Intermediate Accounting III (4)
 - Acct 3544. Income Tax Accounting (4)
 - Acct 3546. Auditing (4)
 - Acct 3548. Advanced Accounting (4)
 - BLaw 1106. The Nature of Law (4)
 - Econ 1203. Statistical Methods (4)
 - FMIS 3201. Management Science (4)
 - MgtS 3804. Human Resource Management (4)

Electives: A minimum of 12 credits in upper division Accounting, Business Law, Economics, Finance and Management Information Sciences (FMIS), or Management Studies (MgtS) courses.

Other Electives: At least 9 additional credits to be selected from courses that meet requirements for the bachelor of accounting (B.Ac.) degree at UMD.

Business Administration Certificates

These certificate programs are designed to present integrated, high-quality, university-level courses of study in a program of shorter length and scope than the full four-year degree programs. They are intended especially for students who want to acquire a general foundation in the basic principles and theories of business administration, and for those who want to obtain training or an opportunity for advancement in some specific field of business.

It is possible for a student to move from a course of study for a certificate into a planned program leading to a bachelor of business administration (B.B.A.) degree. In order to avoid or minimize taking courses that may not be included in the B.B.A. degree program, anyone who contemplates such a long-range objective should consult an adviser in the School of Business and Economics before proceeding further. The School of Business and Economics will make every effort to offer courses that will enable a student to obtain a B.B.A. degree through Continuing Education and Extension.

JUNIOR BUSINESS ADMINISTRATION CERTIFICATE

Total Credits: 55

This certificate requires the equivalent of one academic year of full-time study. Completion of the course of study offers a foundation in writing, economics, accounting, and quantitative analysis. All of the credits earned for the junior certificate are applicable toward the senior certificate and represent approximately half of its required course work.

Students transferring credits to this program from other accredited institutions must take a minimum of 12 credits in Finance and Management Information Sciences (FMIS) or Management Studies (MgtS) at the University of Minnesota Duluth.

Required Courses (43 credits):

- Acct 1511. Financial Accounting I (3)
- Acct 1512. Financial Accounting II (3)
- Acct 3001. Management Accounting (4)
- Comp 1120. College Writing (5)
- Econ 1004-1005. Principles of Economics: Micro/Macro (8)
- Econ 1203. Statistical Methods (4)
- FMIS 1201. Intro to Business Information Systems (4)
- MgtS 3304. Organizational Management (4)
- MgtS 3804. Human Resource Management (4)
- Math 1156. Finite Mathematics (4)

Electives: A minimum of 12 credits in upper division Accounting, Economics, Finance and Management Information Sciences (FMIS), or Management Studies (MgtS) courses. All required lower division courses must be completed before registering in upper division FMIS or MgtS courses.

SENIOR BUSINESS ADMINISTRATION CERTIFICATE

Total Credits: Minimum of 93

The Senior Business Administration Certificate program is a continuation of the Junior Business Administration Certificate program, expanding the core and requirements to include a broader base of general knowledge and provide greater opportunity for specialization. Completion of the 93 credits requires the equivalent of two academic years of full-time study. The course of study emphasizes work in the basic principles and theories of business administration.

Students transferring credits to this program from other accredited institutions must take a minimum of 24 credits, including 18 credits in Finance and Management Information Sciences (FMIS) or Management Studies (MgtS) courses, at the University of Minnesota Duluth.

Required Courses (71 credits):

- Required courses for the Junior Business Administration Certificate (43)
- BLaw 1106. The Nature of Law (4)
- FMIS 3140. Business Communications (4)
- FMIS 3201. Management Science (4)
- FMIS 3301. Operations Management I (4)
- FMIS 3611. Corporation Finance (4)
- MgtS 3362. Strategic Management (4)
- MgtS 3701. Principles of Marketing (4)

Electives: A minimum of 12 credits in upper division Accounting, Economics, Finance and Management Information Sciences (FMIS), or Management Studies (MgtS) courses.

Other Electives: At least 10 credits to be selected from courses that meet requirements for the bachelor of business administration (B.B.A.) degree at UMD.

Liberal Arts Certificate

Total Credits: 45

This certificate program is designed for students who want an introduction to a liberal arts education. It is the equivalent of one year of full-time university-level study. With careful planning, the certificate may constitute the freshman year of a degree program in liberal arts or business fields.

Students transferring credits to this program from other accredited institutions must take a minimum of 12 credits at the University of Minnesota Duluth.

Composition Requirement (5 credits):

- Comp 1120. College Writing (5)

Distribution Requirements (24 credits, 6 in each area):

- Communication, Language, and Symbolic Systems
- The Physical and Biological Sciences
- The Individual and Society
- Literary and Artistic Expression

Electives: Additional liberal arts courses to complete the 45 credits required for the certificate.

Students interested in completing the Liberal Arts Certificate should contact the CEE student counselor regarding selection of liberal arts courses that meet the group distribution requirements.



CEE provides hundreds of evening courses applicable to degree or certificate programs, or to other educational goals.

V. COURSE DESCRIPTIONS

Changes are often made in course offerings, particularly for winter and spring quarters. A few of the following classes may be cancelled or new ones may be added. Room numbers or instructors could change as well. To keep informed, look for advertisements in Duluth newspapers during registration periods. The Continuing Education and Extension (CEE) quarterly newsletter, *UMD ExtensionCord*, also carries any changes in class schedules. Or check at a CEE registration window, 104 Darland Administration Building, (219) 726-8809.

COURSE ABBREVIATIONS

Acct	Accounting
Air	Aerospace Studies
Amln	American Indian Studies
AmS	American Studies
Anth	Anthropology
Art	Art
ArH	Art History
Ast	Astronomy
Biol	Biology
BLaw	Business Law
Chem	Chemistry
CFD	Child and Family Development
CC	Coaching Certification
Comm	Communication
CD	Communication Disorders
Comp	Composition
CS	Computer Science
Dn	Dance
ECh	Early Child Care and Development
Econ	Economics
Educ	Education
EHS	Education and Human Service Professions
ET	Electronic Technology
EIEd	Elementary Education
Engl	English
FamL	Family Life
FMIS	Finance and Management Information Sciences
FA	Fine Arts
Fr	French
Geog	Geography
Ger	German
Hlth	Health
HPER	Health, Physical Education and Recreation
Hist	History
HmCI	Humanities and Classics
Ind	Industrial and Technical Studies
IntS	International Studies
Jour	Journalism
Lang	Language
MgtS	Management Studies
MT	Manufacturing Technology
Math	Mathematics and Statistics
Mu	Music
Phil	Philosophy
PE	Physical Education
PEP	Physical Education Professional
Phys	Physics
Pol	Political Science
PsyF	Psychological Foundations
Psy	Psychology
Rec	Recreation
Safe	Safety
Soc	Sociology
Span	Spanish
Th	Theatre
URS	Urban and Regional Studies
WS	Women's Studies

SYMBOLS

- † All courses preceding this symbol must be completed before credit will be granted for any quarter of the sequence.
- § Credit will not be given if the equivalent course listed after this symbol has been taken for credit.
- ¶ Concurrent registration is allowed in the course listed after this symbol.
- # Consent of the instructor is required prior to registration.
- △ Consent of the department offering the course is required prior to registration.
- Consent of college offering the course is required prior to registration.
- TBA To be announced.
- [A] This course must be taken under a mandatory A-F grading system.
- [P] This course must be taken under a mandatory P-N grading system.
- [S] This course must be taken under a mandatory S-N grading system. Used only in Graduate School and School of Medicine courses.
- [0] This course may be taken under the A-F or P-N grading system.
- E This letter following the course number indicates that the course is offered through Continuing Education and Extension.

BUILDING ABBREVIATIONS

ABAH, A. B. Anderson Hall	LSci, Life Science Building
BohH, Bohannon Hall	Med, School of Medicine
Cina, Cina Hall	MonH, Montague Hall
Chem, Chemistry Building	MPAC, Marshall Performing Arts Center
DAdB, Darland Administration Building	MWAH, Marshall W. Alworth Hall
Engr, Engineering Building	MWAP, Marshall W. Alworth Planetarium
FH, Field House	ROTC, Air Force ROTC Building
G, Glensheen	SBE, School of Business and Economics
HellerH, Heller Hall	SpHC, Sports and Health Center
H, Humanities Building	TMA, Tweed Museum of Art
Lib, Library	VKH, Voss-Kovach Hall

GRADING OPTION

Undergraduate courses at the University of Minnesota Duluth are offered under mandatory A-F grading [A], mandatory P-N grading [P], a special grading option [0] that allows a student to select A-F or P-N grading, or mandatory S-N grading [S] (used only in the Graduate School and the School of Medicine). Students may not change their choice of grading system after the second week of the term. The grading system for each course, if specified, is shown in brackets following the instructor's name.

OTHER COURSE INFORMATION

Course Numbering—All University courses carry four-digit numbers. These numbers are to be written on the registration form. The first digit of each course number indicates the minimum class standing level necessary for admission to the course; the remaining three digits specify the course. The key for the course numbering system is as follows:

- 1xxx Degree credit course primarily for freshmen and sophomores (lower division)
- 3xxx Degree credit course primarily for juniors and seniors (upper division)
- 5xxx Degree credit course primarily for juniors, seniors, and graduate students
- 8xxx Degree credit course for graduate students only

Students who wish to take a 5xxx-level course for graduate credit must indicate that fact on registration forms.

Sequence and Series Courses—A hyphen between course numbers (e.g., Chem 1103-1104) indicates a sequence of courses that must be taken in the order listed. A comma between course numbers (e.g., Engl 1572, 1573) indicates a series of courses that may be taken in any order.

Call Numbers—A six-digit call number assigned to each course follows the individual section number in the course listings. This number is to be inserted on the course registration form.

Accounting (Acct)

Fall

Acct 1511. FINANCIAL ACCOUNTING I. (3 cr, prereq 30 cr; sec 90 (407302) 6:00-8:30 Th; SBE 32; Sumner, J; sec 92 (275715) 5:00-7:30 T; SBE 32; Salmela, K; \$182.25) [A]

Accounting as a means of communicating financial information to external parties in society; the process of recording, classifying, measuring, and reporting business data stressing the balance sheet and income statement; accounting for monetary and fixed assets. Limited to 46 students each section.

Acct 1512. FINANCIAL ACCOUNTING II. (3 cr, prereq 1511, 30 cr, or Δ ; sec 90 (106578) 6:00-8:30 W; SBE 32; Salmela, K; \$182.25) [A]

Accounting concepts and principles underlying inventories, current and long-term liabilities, corporation and partnership accounts, the statement of cash flows, and other special topics. Limited to 46 students.

Acct 1980. SPECIAL TOPICS: ACCOUNTING FOR NON-ACCOUNTANTS. (3 cr, [may be repeated for a max of 8 cr]; sec 90 (175750) 6:00-8:30 W; SBE 20; Dimian, F; \$182.25) [O]

Emphasis on usefulness of accounting information and financial statements. Accounting procedures and bookkeeping de-emphasized. A pragmatic approach in explaining the information content and use of financial statements and financial data. Not open to SBE students and designed especially for non-accountants who realize the value of possessing basic accounting knowledge. Limited to 36 students.

Acct 3001. MANAGEMENT ACCOUNTING. (4 cr, [cr not available for BAc degree or Acct minor], \$1523; prereq 1512, BBA candidate, BA minor, or Δ ; sec 90 (275746) 6:00-9:20 Th; SBE 20; Nab, B; \$258.00) [A]

Broad overview of system of information collection and analysis in an organization. Topics include cost behavior analysis, cost-volume-profit relationships, budgeting, budget variances analysis, centralized organization design, performance evaluation, and human and organization behavior concerns. Limited to 33 students.

Acct 3501. INTERMEDIATE ACCOUNTING I. (4 cr, prereq SBE candidate, Acct minor with 90 cr, or \square ; sec 90 (512152) 6:00-9:20 M; SBE 20; Brannan, R; \$258.00) [A]

The search for principles and postulates of accounting, with emphasis on the timing of revenue recognition and expense matching, concepts of income, and the impact of inventory measurement on its determination. Limited to 36 students.

Acct 3544. INCOME TAX ACCOUNTING. (4 cr, prereq 1512, SBE candidate, Acct minor with 90 cr, or \square ; sec 90 (175769) 6:00-9:20 M; SBE 32; Syck, L; \$258.00) [A]

Principles involved in determining taxable net income and computation of federal and state income taxes. Individual and corporation taxes are emphasized. Limited to 38 students.

Acct 3546. AUDITING. (4 cr, prereq 3503, BAc candidate with 120 cr, Acct minor with 90 cr, or \square ; sec 90 (007313) 6:00-9:20 T; SBE 20; Tonge, S; \$258.00) [A]

Theory and procedures in the audit process and completion of an audit case. Limited to 36 students.

Winter

Acct 1511. FINANCIAL ACCOUNTING I. (3 cr, prereq 30 cr; sec 90 (822895) 6:00-8:40 M; SBE 32; Nelson, T; \$182.25) [A]

Accounting as a means of communicating financial information to external parties in society; the process of recording, classifying, measuring, and reporting business data stressing the balance sheet and income statement; accounting for monetary and fixed assets. Limited to 30 students.

Acct 1512. FINANCIAL ACCOUNTING II. (3 cr, prereq 1511, 30 cr, or Δ ; sec 90 (520137) 6:00-8:30 W; SBE 32; sec 92 (121655) 5:00-7:30 Th; SBE 32; Salmela, K; \$182.25) [A]

Accounting concepts and principles underlying inventories, current and long-term liabilities, corporation and partnership accounts, the statement of cash flows, and other special topics. Limited to 30 students each section.

Acct 3502. INTERMEDIATE ACCOUNTING II. (4 cr, prereq 3501, SBE candidate, Acct minor with 90 cr, or \square ; sec 90 (313142) 6:00-9:40 M; SBE 20; Paskin, S; \$258.00) [A]

Application of concepts examined in 3501 to all traditional balance sheet components and a probing of possible future changes in the reporting of financial condition and results of operations of business firms, with a view toward providing more useful information to the firm and its many publics. Limited to 30 students.

Acct 3507. COST ACCOUNTING I. (4 cr, prereq SBE candidate, Acct minor with 90 cr, or \square ; sec 90 (922502) 5:00-8:20 T; SBE 32; Rowley, S; \$258.00) [A]

Practices, principles, and procedures of handling production costs for use in inventory valuation and income determination. Applications of cost information in management decision making. Limited to 30 students.

Spring

Acct 1511. FINANCIAL ACCOUNTING I. (3 cr, prereq 30 cr; sec 90 (128699) 6:00-8:30 W; SBE 32; Nelson, T.; \$182.25) [A]

Accounting as a means of communicating financial information to external parties in society; the process of recording, classifying, measuring, and reporting business data stressing the balance sheet and income statement; accounting for monetary and fixed assets. Limited to 30 students.

Acct 1512. FINANCIAL ACCOUNTING II. (3 cr, prereq 1511, 30 cr, or Δ ; sec 90 (525922) 6:00-8:30 T; SBE 32; McGinnity, L; \$182.25) [A]

Accounting concepts and principles underlying inventories, current and long-term liabilities, corporation and partnership accounts, the statement of cash flows, and other special topics. Limited to 30 students.

Acct 3001. MANAGEMENT ACCOUNTING. (4 cr, [cr not available for BAc degree or Acct minor], prereq 1512, BBA candidate, BA minor, or \square ; sec 90 (141341) 6:00-9:20 Th; SBE 32; Brannan, R; \$258.00) [A]

Broad overview of system of information collection and analysis in an organization. Topics include cost behavior analysis, cost-volume-profit relationships, budgeting, budget variances analysis, centralized organization design, performance evaluation, and human and organization behavior concerns. Limited to 30 students.

Acct 3101. COMPUTER APPLICATIONS IN ACCOUNTING. (2 cr, prereq SBE candidate, Acct minor, or \square ; sec 90 (541344) 6:00-7:40 Th; SBE 45; Nab, B; \$129.00) [A]

Various microcomputer and mainframe applications for solving financial and managerial accounting problems. Main focus on electronic spreadsheets, quantitative and statistical analyses, and graphics. Completion of a computerized financial accounting practice set. Limited to 24 students.

Acct 3503. INTERMEDIATE ACCOUNTING III. (4 cr, prereq 3502, SBE candidate or Acct minor with 90 cr; sec 90 (129858) 6:00-9:20 T; SBE 20; Dimian, F; \$258.00) [A]

Financial reporting to investors and interested external parties. Topics include income tax allocation, changes in financial position, price-level and current-value accounting, analysis of financial statements, consignments, and installment sales. Limited to 30 students.

Acct 3548. ADVANCED ACCOUNTING. (4 cr, prereq 3503, BAC candidate with 120 cr, Acct minor with 90 cr, or □; sec 90 (727944) 5:00-8:20 W; SBE 20; Rowley, S; \$258.00) [A]

Advanced accounting topics including consolidated financial statements; international, governmental and not-for-profit, partnership, and fiduciary accounting. Limited to 30 students.

Acct 5545. ADVANCED INCOME TAXATION. (3 cr; prereq 3544, SBE candidate, Acct minor with 120 cr, grad, or □; sec 90 (041350) 6:00-8:30 M; SBE 32; Syck, L; \$193.50) [O]

Emphasis on decision making and tax planning. An analysis of federal and state taxes relating to partnerships, corporations, and associations; corporate distributions and reorganizations; trust and foundations; estate, gift, and inheritance taxes. Limited to 30 students.

Aerospace (Air)

Winter

Air 3482. INTRODUCTION TO AVIATION. (4 cr, §3481; sec 90 (222206) 6:00-10:00 W; ROTC 8; Rizzo, S; \$258.00) [A]

Weather; Federal Aviation Agency regulations; dead-reckoning navigation; radio navigation; related topics required to complete the private pilot's written examination. Suggested for AFROTC pilot and navigator candidates. Open to any student interested in preparing to take the FAA private pilot's license written examination. Limited to 25 students.

Spring

Air 3482. INTRODUCTION TO AVIATION. (4 cr, §3481; sec 90 (527069) 6:00-10:00 W; ROTC 8; Rizzo, S; \$258.00) [A]

Weather; Federal Aviation Agency regulations; dead-reckoning navigation; radio navigation; related topics required to complete the private pilot's written examination. Suggested for AFROTC pilot and navigator candidates. Open to any student interested in preparing to take the FAA private pilot's license written examination. Limited to 25 students.

American Indian Studies (Amln)

Fall

Amln 1103. BEGINNING CHIPPEWA. (3 cr, sec 90 (702350) 6:00-8:30 W; Cina 308; Staff; \$182.25) [A]

Speaking and comprehension of basic Chippewa speech patterns. Development of rudimentary reading knowledge. Limited to 40 students.

Winter

Amln 1104. BEGINNING CHIPPEWA. (3 cr, sec 90 (841334) 6:00-8:30 W; Room TBA; Staff; \$182.25) [A]

Speaking and comprehension of basic Chippewa speech patterns. Development of rudimentary reading knowledge. Continuation of Amln 1103. Limited to 30 students.

Spring

Amln 3970. TRIBAL ECONOMIC DEVELOPMENT AND MANAGEMENT. (4 cr, prereq 1120 or #; sec 90 (844184) 6:00-9:20 W; Room TBA; Staff; \$258.00) [A]

Management concepts and theories; tribal environment and its contemporary economic and governmental development; tribal managerial techniques. Limited to 30 students.

American Studies (AmS)

Fall

AmS 3400. MAJOR AMERICAN FILMMAKERS. (4 cr; [may be repeated for a max of 8 cr]; sec 90 (175352) 6:00-9:20 M; ABAH 245; Fischer, R; \$258.00) [A]

Viewing, analysis, and textual criticism of the films of one or more masters of American cinema. Limited to 60 students.

AmS 5150. AMERICAN FOLKLORE AND FOLKLIFE. (4 cr, prereq 80 cr or #; sec 90 (977760) 6:00-9:20 M; Engr 280; Bird, E; \$258.00) [A]

Study of regional, ethnic, and other subcultures in North America as expressed in dialects, tales, legends, rituals, and material culture. Fieldwork research project required. Limited to 35 students.

Winter

AmS 3260. THE SOUTH IN AMERICAN CULTURE. (4 cr, sec 90 (541358) 6:00-9:40 W; Room TBA; Fischer, R; \$258.00) [A]

Study of southern life and culture from the antebellum Cotton Kingdom through recent times, with emphasis on the distinctiveness of southern culture and the contrast between its historical reality and place in popular mythology. Limited to 60 students.

Spring

AmS 3180. AMERICAN CULTURE: THE SIXTIES. (4 cr, §Hum 3073; sec 90 (144294) 6:00-9:40 T; Room TBA; Bacig, T; \$258.00) [A]

Study of interrelationships between the arts, popular culture, politics, and social change as found in literature, theatre, film, photography, painting, and music in America during the 1960s. Limited to 60 students.

AmS 3410. AMERICAN LITERATURE IN AMERICAN FILM. (4 cr, sec 90 (644235) 6:00-9:40 W; Room TBA; Maiolo, J; \$258.00) [A]

Comparative study of several American novels and the films adapted from them. Limited to 60 students.

AmS 3550. TOPICS IN AMERICAN FILM STUDIES: FILMS OF THE GREAT DEPRESSION. (4 cr, [may be repeated for a max of 8 cr]; sec 90 (126791) 6:00-8:30 M; MWAH 191; Fischer, R; \$258.00) [A]

Viewing, analysis, and textual criticism of selected Depression-era Hollywood films reflecting the realities of hard times and social tension, the element of escape into film fantasy, and the evolution of the art into such epics as *Gone With the Wind*, *Wizard of Oz*, and *The Grapes of Wrath*. Limited to 60 students.

Anthropology (Anth)

Fall

Anth 1602. PREHISTORIC CULTURES. (5 cr, sec 90 (612028) 6:00-10:10 T; Cina 214; Belote, J; \$303.75) [A]

A survey course focusing on the origin and development of extinct and living human beings, including the growth and differentiation of cultures from their beginnings to the earliest stages of ancient civilizations. Limited to 30 students.

Anth 1604. CULTURAL ANTHROPOLOGY. (5 cr, sec 90 (008865) 6:00-10:10 M; Cina 308; Kemp, S; \$303.75) [A]

An introduction to representative cultures of the world and to the concepts and methods of cultural anthropology, focusing on the range of variation and degree of uniformity in human behavior and in cultural adaptations. Limited to 30 students.

Anth 1604. CULTURAL ANTHROPOLOGY. (5 cr, sec 91 (109215) hrs and room arr; Kemp, S; \$303.75) [A]

Please see page 7.

Anth 3524. ARCHAEOLOGY OF NORTH AMERICA. (4 cr, prereq 40 cr or #; sec 90 (977709) 5:00-8:20 W; Cina 214; Mulholland, S; \$258.00) [A]

Archaeological survey of major cultural areas of North America north of Mexico. Limited to 30 students.

Anth 5604. FACES OF CULTURE. (4 cr, sec 90 (704949) hrs and room arr; Kemp, S; \$258.00) [A]

Please see page 7.

Winter

Anth 1602. PREHISTORIC CULTURES. (5 cr, sec 90 (312699) 6:00-10:10 M; Cina 214; Mulholland, S; \$303.75) [A]

A survey course focusing on the origin and development of extinct and living human beings, including the growth and differentiation of cultures from their beginnings to the earliest stages of ancient civilizations. Limited to 30 students.

Anth 1604. CULTURAL ANTHROPOLOGY. (5 cr, sec 90 (418400) 5:00-9:10 M; Cina 214; Belote, J; \$303.75) [A]

An introduction to representative cultures of the world and to the concepts and methods of cultural anthropology, focusing on the range of variation and degree of uniformity in human behavior and in cultural adaptations. Limited to 30 students.

Anth 1604. CULTURAL ANTHROPOLOGY. (5 cr, sec 91 (918045) hrs and room arr; Kemp, S; \$303.75) [A]

Please see page 7.

Anth 5604. FACES OF CULTURE. (4 cr, sec 90 (713428) hrs and room arr; Kemp, S; \$258.00) [A]

Please see page 7.

Spring

Anth 1602. PREHISTORIC CULTURES. (5 cr, sec 90 (226210) 6:00-10:10 Th; Cina 214; Belote, J; \$303.75) [A]

A survey course focusing on the origin and development of extinct and living human beings, including the growth and differentiation of cultures from their beginnings to the earliest stages of ancient civilizations. Limited to 30 students.

Anth 1604. CULTURAL ANTHROPOLOGY. (5 cr, sec 90 (833783) 6:00-10:10 T; Cina 214; Kemp, S; \$303.75) [A]

An introduction to representative cultures of the world and to the concepts and methods of cultural anthropology, focusing on the range of variation and degree of uniformity in human behavior and in cultural adaptations. Limited to 30 students.

Anth 1604. CULTURAL ANTHROPOLOGY. (5 cr, sec 91 (109215) hrs and room arr; Kemp, S; \$303.75) [A]

Please see page 7.

Anth 5604. FACES OF CULTURE. (4 cr, sec 90 (703949) hrs and room arr; Kemp, S; \$258.00) [A]

Please see page 7.

Art (Art)

Fall

Art 1002. INTRODUCTION TO ART. (4 cr, prereq for all studio art courses; sec 90 (011569) 6:00-8:50 TTh; ABAH 125; Staff; \$243.00 and \$5.00 materials fee) [O]

A studio course in art for those with little or no creative experience in art, introducing various materials, techniques, and problems. Emphasis will be placed on studio work, class discussions, films, and outside reading. Limited to 30 students.

Art 1009. DRAWING. (3 cr, not for art majors or minors; sec 90 (910656) 6:00-8:40 Th plus 3 hrs studio work arr per week; ABAH 323; Kerrigan, T; \$182.25) [O]

Stimulation of visual and conceptual skills through the dynamics of drawing. Limited to 18 students.

Art 1012. 3-D DESIGN. (3 cr, prereq concurrent registration or prior cr in 1002 or #; sec 90 (775802) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 145; Brush, L; \$182.25 and \$7.50 materials fee) [O]

An introduction to basic concepts and materials of three-dimensional form and space. Limited to 18 students.

Art 1016. LETTERING. (3 cr, prereq 1002 or #; sec 90 (906381) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 335; Kast, D; \$182.25) [O]

Development of freehand discipline in lettering and manuscript. Limited to 18 students.

Art 1018. POSTER DESIGN. (3 cr, prereq 1010 or #; sec 90 (375804) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 323; Agarwal, P; \$182.25) [O]

The art of poster design as an extension of the visual arts. Limited to 18 students.

Art 1405. CERAMICS. (3 cr, not for art majors or minors; sec 90 (705474) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 155; Klueg, J; \$182.25 and \$5.00 materials fee) [O]

Elementary forming, decorating, glazing, and firing techniques. Combined enrollment with 3405 limited to 18 students.

Art 1605. FUNDAMENTALS OF PHOTOGRAPHY. (3 cr, not for art majors or minors; sec 90 (302111) 6:00-8:40 T plus 3 hrs studio work arr per week; Cina 16; Brutger, J; \$182.25 and \$20.00 materials fee) [O]

Elementary photographic principles and techniques through a studio art experience. Combined enrollment with 1606 limited to 20 students.

Art 1606. PHOTOGRAPHY. (3 cr, [may be repeated for a max of 6 cr]; prereq 1605 or #; not for art majors or minors; sec 90 (307969) 6:00-8:40 T plus 3 hrs studio work arr per week; Cina 16; Brutger, J; \$182.25 and \$20.00 materials fee) [O]

Photographic principles and techniques through studio art experiences. Combined enrollment with 1605 limited to 20 students.

Art 3052. COMPUTER GRAPHICS: GRAPHIC DESIGN. (3 cr, prereq 1011 or 1013 or #; sec 90 (409633) 6:00-8:40 M plus 3 hrs studio work arr per week; MonH 239; Tofte, J; \$193.50 and \$60.00 computer access fee) [A]
Methods, techniques, and theory of computer-based imaging systems for the graphic designer. Limited to 16 students.

Art 3055. GRAPHIC DESIGN. (3 cr, prereq 1010, 1011 or 1013, or #; sec 90 (708438) 6:00-8:40 Th; Cina 16; Brush, G; \$193.50 and \$2.50 materials fee) [O]
Studio course in the application of visual arts concerns to graphic design. Limited to 20 students.

Art 3405. CERAMICS. (3 cr, [may be repeated for a max of 6 cr]; \$1406, prereq 1405 or #; not for art majors or minors; sec 90 (809290) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 155; Klueg, J; \$193.50) [O]
Forming and decorating techniques, glaze experiments, and kiln operation. Combined enrollment with 1405 limited to 18 students.

Art 3713. DRAWING. (3 cr, prereq 1010, 1011, 1012, or #; sec 90 (275813) 6:00-8:40 T plus 3 hrs studio work arr per week; ABAH 325; Gindy, A; \$193.50) [O]
Intermediate drawing from still life, figure, and landscape. Combined enrollment with 3714, 5750 limited to 18 students.

Art 3714. DRAWING. (3 cr, prereq 1010, 1011, 1012, or #; sec 90 (175814) 6:00-8:40 T plus 3 hrs studio work arr per week; ABAH 325; Gindy, A; \$193.50) [O]
Intermediate drawing from still life, figure, and landscape. Combined enrollment with 3713, 5750 limited to 18 students.

Art 5750. ADVANCED DRAWING. (3 cr [may be repeated for a max of 9 cr; repeatable to 12 cr with #], prereq 3713, 3714, or #; sec 90 (775816) 6:00-8:40 T plus 3 hrs studio work arr per week; ABAH 325; Gindy, A; \$193.50) [O]
Individually supervised projects supporting involvement in other studio areas. Limited to 18 students.

Winter

Art 1002. INTRODUCTION TO ART. (4 cr, prereq for all studio art courses; sec 90 (621263) 6:00-8:50 TTh; ABAH 125; Staff; \$243.00 and \$5.00 materials fee) [O]
A studio course in art for those with little or no creative experience in art, introducing various materials, techniques, and problems. Emphasis will be placed on studio work, class discussions, films, and outside reading. Limited to 30 students.

Art 1009. DRAWING. (3 cr, not for art majors or minors; sec 90 (315182) 6:00-8:40 Th plus 3 hrs studio work arr per week; ABAH 323; Brush, G; \$182.25) [O]
Stimulation of visual and conceptual skills through the dynamics of drawing. Limited to 20 students.

Art 1010. DRAWING. (3 cr, prereq concurrent registration or prior cr in 1002 or #; sec 90 (213070) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 323; Gindy, A; \$182.25) [O]
Introduction to the drawing experience and other problems concerned with the translation of three-dimensional visual experience into two-dimensional form. Limited to 20 students.

Art 1500. JEWELRY AND METALS. (3 cr, prereq 1002, 1011 or 1013, or #; sec 90 (622137) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 135; Klueg, J; \$182.25 and \$10.00 materials fee) [O]
Studio course in basic jewelry techniques and design using copper, brass, silver, and copper enameling. Limited to 18 students.

Art 1605. FUNDAMENTALS OF PHOTOGRAPHY. (3 cr, not for art majors or minors; sec 90 (119993) 6:00-8:40 T plus 3 hrs studio work arr per week; Cina 16; Brutger, J; \$182.25 and \$20.00 materials fee) [O]
Elementary photographic principles and techniques through a studio art experience. Combined enrollment with 1606 limited to 25 students.

Art 1606. PHOTOGRAPHY. (3 cr, [may be repeated for a max of 6 cr]; prereq 1605 or #; not for art majors or minors; sec 90 (818880) 6:00-8:40 T plus 3 hrs studio work arr per week; Cina 16; Brutger, J; \$182.25 and \$20.00 materials fee) [O]
Photographic principles and techniques through studio art experiences. Combined enrollment with 1605 limited to 25 students.

Art 3040. GRAPHIC PROCESSES AND TECHNIQUES. (3 cr, \$3050; prereq 1010, 1011 or 1013, 3713, or #; sec 90 (715356) 6:00-8:40 T; ABAH 335; Agarwal, P; \$193.50) [O]
Methods, techniques, and theory of graphic design and visual communications. Limited to 16 students.

Art 3054. COMPUTER ANIMATION DESIGN. (3 cr, prereq 3052 or #; sec 90 (023723) 6:00-8:40 M; MonH 239; Tofte, J; \$193.50) [A]
Computer-based color graphics emphasizing animation for broadcast film and video applications, with study of historical context of important film animation works. Limited to 18 students.

Spring

Art 1002. INTRODUCTION TO ART. (4 cr, prereq for all studio art courses; sec 90 (724381) 6:00-8:50 TTh; ABAH 125; Staff; \$243.00 and \$5.00 materials fee) [O]
A studio course in art for those with little or no creative experience in art, introducing various materials, techniques, and problems. Emphasis will be placed on studio work, class discussions, films, and outside reading. Limited to 30 students.

Art 1010. DRAWING. (3 cr, prereq concurrent registration or prior cr in 1002 or #; sec 90 (630206) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 323; Gindy, A; \$182.25) [O]
Introduction to the drawing experience and other problems concerned with the translation of three-dimensional visual experience into two-dimensional form. Limited to 20 students.

Art 1125. WATERCOLOR PAINTING. (3 cr, prereq 1010, 1011 or 1013, or #; sec 90 (526052) 6:00-8:40 Th plus 3 hrs studio work arr per week; ABAH 135; Schauer, R; \$182.25) [O]
Basic concepts and techniques in watercolor. Limited to 20 students.

Art 1200. SCULPTURE. (3 cr, prereq 1002, 1010, 1012, or #; sec 90 (641366) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 145; Brush, L; \$182.25 and \$7.50 materials fee) [O]
Exploration of sculptural materials, methods, and concepts, with problems relating to form, time, and space. Combined enrollment with 3201, 3202, 5250, 5251 and 8260. Limited to 21 students.

Art 1405. CERAMICS. (3 cr, not for art majors or minors; sec 90 (830057) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 155; Klueg, J; \$182.25 and \$5.00 materials fee) [O]
Elementary forming, decorating, glazing, and firing techniques. Limited to 19 students.

Art 1605. FUNDAMENTALS OF PHOTOGRAPHY. (3 cr, not for art majors or minors; sec 90 (332922) 5:00-7:40 T plus 3 hrs studio work arr per week; Cina 16; Brutger, J; \$182.25 and \$20.00 materials fee) [O]
Elementary photographic principles and techniques through a studio art experience. Combined enrollment with 1606 limited to 25 students.

Art 1606. PHOTOGRAPHY. (3 cr, [may be repeated for a max of 6 cr]; prereq 1605 or #; not for art majors or minors; sec 90 (433446) 5:00-7:40 T plus 3 hrs studio work arr per week; Cina 16; Brutger, J; \$182.25 and \$20.00 materials fee) [O]

Photographic principles and techniques through studio art experiences. Combined enrollment with 1605 limited to 25 students.

Art 3054. COMPUTER ANIMATION DESIGN. (3 cr, prereq 3052 or #; sec 90 (141369) 6:00-8:40 M; MonH 239; Tofte, J; \$193.50 [A] Computer-based color graphics emphasizing animation for broadcast film and video applications, with study of historical context of important film animation works. Limited to 16 students.

Art 3055. GRAPHIC DESIGN. (3 cr, prereq 1010, 1011 or 1013, or #; sec 90 (441370) 6:00-8:40 Th; Cina 16; Brush, G; \$193.50 and \$2.50 materials fee) [O]

Studio course in the application of visual arts concerns to graphic design. Limited to 20 students.

Art 3201. SCULPTURE. (3 cr, prereq 1200 or #; sec 90 (241371) 6:00-8:40 W; ABAH 145; Brush, L; \$193.50 and \$7.50 materials fee) [O]

Experiences with a variety of sculptural forms and media with an emphasis on creative expression. Combined enrollment with 1200, 3202, 5250, 5251 and 8260. Limited to 21 students.

Art 3202. SCULPTURE. (3 cr, prereq 3201 or #; sec 90 (141372) 6:00-8:40 W; ABAH 145; Brush, L; \$193.50 and \$7.50 materials fee) [O]

Individual supervised study; creative projects in a sculptural medium of student's special interest. Combined enrollment with 1200, 3201, 5250, 5251 and 8260. Limited to 21 students.

Art 3405. CERAMICS. (3 cr, [may be repeated for a max of 6 cr]; \$1406, prereq 1405 or #; not for art majors or minors; sec 90 (128970) 6:00-8:40 W plus 3 hrs studio work arr per week; ABAH 155; Klueg, J; \$193.50) [O]

Forming and decorating techniques, glaze experiments, and kiln operation. Limited to 19 students.

Art 3716. ILLUSTRATION. (3 cr, prereq 1010 or Δ ; sec 90 (124532) 6:00-8:40 T plus 3 hrs studio work arr per week; ABAH 335; Staff; \$193.50) [O]

Studio course in conceptual and technical aspects of this specialized form of drawing and painting. Limited to 18 students.

Art 5250. SCULPTURE. (3 cr, [may be repeated for a max of 6 cr]; prereq 3202 or #; sec 90 (341376) 6:00-8:40 W; ABAH 145; Brush, L; \$193.50 and \$7.50 materials fee) [O]

Sculpture in the area of specialized interest. Combined enrollment with 1200, 3201, 3202, 5250 and 8260. Limited to 21 students.

Art 5251. ADVANCED SCULPTURE. (3 cr, [may be repeated for a max of 6 cr]; prereq 5250 or #; sec 90 (041378) 6:00-8:40 W; ABAH 145; Brush, L; \$193.50 and \$7.50 materials fee) [O]

Advanced sculpture in the area of specialized interest. Combined enrollment with 1200, 3201, 3202, 5250 and 8260. Limited to 21 students.

Art 5291. INDIVIDUAL STUDY IN SCULPTURE. (1-3 cr, [may be repeated for a max of 9 cr]; prereq 4 qtrs work in this area and Δ ; sec 90 (141380) hours and room arranged; Brush, L; \$64.50 per credit and \$7.50 materials fee) [O]

Art 8260. ADVANCED SCULPTURE. (3 cr, [may be repeated for a max of 9 cr]; prereq 6 cr of 5251 or #; sec 90 (241835) 6:00-8:40 W; ABAH 145; Brush, L; \$193.50 and \$7.50 materials fee) [O]

Development of personal expression in sculpture. Combined enrollment with 1200, 3201, 3202, 5250 and 5251. Limited to 21 students.

Art History (Arth)

Winter

Arth 1305. CLASSICAL THEMES IN ART HISTORY. (4 cr, sec 90 (941406) 6:00-8:40 M; ABAH 345; Hedin, T; \$243.00 and \$2.50 materials fee) [O]

The genres of painting and special related subjects in Western art from 1400 to 1800. Limited to 35 students.

Astronomy (Ast)

Fall

Ast 1040. INTRODUCTORY ASTRONOMY. (4 cr, §1010, §1020, §1030; sec 90 (805949) 6:00-9:20 Th; LSci 170; Staff; \$243.00) [A] A nonmathematical description of present knowledge of the solar system, stars, interstellar space, galaxies, the universe. Limited to 30 students.

Winter

Ast 1040. INTRODUCTORY ASTRONOMY. (4 cr, §1010, §1020, §1030; sec 90 (116021) 6:00-9:20 Th; MWAH 195; Staff; \$243.00) [A]

A nonmathematical description of present knowledge of the solar system, stars, interstellar space, galaxies, the universe. Limited to 30 students.

Spring

Ast 1040. INTRODUCTORY ASTRONOMY. (4 cr, §1010, §1020, §1030; sec 90 (832780) 6:00-9:20 Th; MWAH 195; Staff; \$243.00) [A]

A nonmathematical description of present knowledge of the solar system, stars, interstellar space, galaxies, the universe. Limited to 50 students.

Ast 3040. THE SOLAR SYSTEM. (4 cr, prereq 1040, Math 1185 or 1210, or #; sec 90 (029795) 6:00-9:20 T; MWAH 195; Staff; \$258.00) [A]

Survey of planets and their satellites; asteroids, comets, interplanetary debris; origin and evolution of solar system. Limited to 25 students.

Biology (Biol)

Fall

Biol 1109. GENERAL BIOLOGY. (5 cr, prereq high school chem or one qtr college chem; sec 90 (106502) 6:00-9:15 TTh; LSci 160; Staff; \$303.75) [A]

Introduction to fundamental concepts of biology, including evolution, phylogeny, behavior, ecology, genetics, development, anatomy, physiology, and cell and molecular biology. Stresses animal systems. Limited to 24 students.

Winter

Biol 1102. BIOLOGY AND SOCIETY. (5 cr, §1109, §1110, sec 90 (816840) 6:00-9:15 TTh; LSci 170; Staff; \$303.75) [A]

Knowledge for the understanding of contemporary issues in biology. Intended primarily for non-majors. Limited to 24 students.

Spring

Biol 1110. GENERAL BIOLOGY. (5 cr, prereq high school chem or one qtr college chem; 1109 prereq for 1110; sec 90 (131559) 6:00-9:15 TTh; LSci 170; Staff; \$303.75) [A]

Introduction to fundamental concepts of biology, including evolution, phylogeny, behavior, ecology, genetics, development, anatomy, physiology, and cell and molecular biology. Stresses plant systems. Limited to 24 students.

Business Law (BLaw)

Fall

BLaw 1106. THE NATURE OF LAW. (4 cr, prereq 30 cr, SBE student, or Geol major with mining option; sec 90 (406490) 6:00-9:20 T; H 403; Ireland, D; \$243.00) [A]

Influence of nature of law and legal process on structure and maintenance of social and economic order. Introduction to basic laws affecting business transactions. Limited to 64 students.

Winter

BLaw 1106. THE NATURE OF LAW. (4 cr, prereq 30 cr, SBE student, or Geol major with mining option; sec 90 (816742) 6:00-9:20 Th; H 403; Brown, R.; \$243.00) [A]

Influence of nature of law and legal process on structure and maintenance of social and economic order. Introduction to basic laws affecting business transactions. Limited to 50 students.

BLaw 3107. LAW OF CONTRACTS, SALES, PROPERTY, AND BANKRUPTCY. (4 cr, prereq 1106, SBE candidate, Bus Adm minor with 90 cr, or □; sec 90 (714336) 6:00-9:20 W; SBE 50; Heller, R; \$243.00) [A]

Law of contract and sales, application of Uniform Commercial Code, basic laws affecting business transactions, laws of property and bankruptcy in relation to business management. Limited to 50 students.

Spring

BLaw 1106. THE NATURE OF LAW. (4 cr, prereq 30 cr, SBE student, or Geol major with mining option; sec 90 (232377) 6:00-9:20 T; H 403; Ireland, D; \$243.00) [A]

Influence of nature of law and legal process on structure and maintenance of social and economic order. Introduction to basic laws affecting business transactions. Limited to 64 students.

Chemistry (Chem)

Fall

Chem 1001. PREPARATORY CHEMISTRY. (4 cr, [cr cannot be applied toward a degree]; sec 90 (703613) 6:00-7:50 TTh; Chem 347; Nichol, J; \$243.00) [A]

For students who have not taken high school chemistry or who need additional background before enrolling in general chemistry. Limited to 20 students.

Chem 1112. GENERAL CHEMISTRY. (5 cr, §1103-1104 [exceptions permitted only by dept action] §1132, §1132H, primarily for students who will take more than 15 cr in chemistry; prereq 1111 or Δ; sec 90 (102501) 6:00-9:30 MW; Chem 200, 301; Magnuson, V; \$303.75) [A]

Fundamental principles exemplified by study of elements, compounds, and their reactions. Limited to 40 students.

Winter

Chem 1103. GENERAL CHEMISTRY. (5 cr, §1110, §1130, §1130H, §1140; primarily for students who will terminate study of chemistry with no more than 15 cr; sec 90 (413214) 6:00-9:30 MW; Chem 150, 301; Thompson, L; \$303.75) [A]

General principles; atomic structure, solutions, ionization; properties and uses of metals, nonmetals, acids, bases, and salts. Limited to 40 students.

Spring

Chem 1104. GENERAL CHEMISTRY. (5 cr, §1111, §1131, §1131H, §1140; primarily for students who will terminate study of chemistry with no more than 15 cr; prereq 1103 or Δ; sec 90 (732092) 6:00-9:30 MW; Chem 301, 347; Staff; \$303.75) [A]

General principles; atomic structure, solutions, ionization; properties and uses of metals, nonmetals, acids, bases, and salts. Limited to 20 students.

Child and Family Development (CFD)

Fall

CFD 1050. SEMINAR IN CHILD DEVELOPMENT. (2 cr, §HE 1620; prereq pre-EIEd, pre-early childhood studies, pre-family life education, pre-special education, or #, concurrent regis in EHS 1050; sec 90 (008705) 6:00-7:40 Th; MonH 206; Staff; \$121.50) [A]

Study of the development of infants, toddlers, preschool, and elementary-age children. Limited to 40 students.

CFD 1100. HUMAN DIVERSITY. (4 cr, §EHS 1100; prereq CEHSP students or #; sec 90 (375785) 6:00-8:30 W; MonH 206; Staff; \$243.00) [A]

Social, political, economic, and religious implications of human diversity in modern society. Individual perceptions of reactions to physical, psychological, and cultural differences in people. Limited to 40 students.

CFD 5400. PHILOSOPHY OF EARLY CHILDHOOD FAMILY EDUCATION. (1 cr, sec 90 (912309) 5:00-9:10 M; special term September 16, 23; BohH 346; Watts, J.; \$64.50) [A]

Overview of historical and philosophical foundations of early childhood family education. Observation and critique of current needs. Limited to 25 students.

Winter

CFD 1000. HUMAN DEVELOPMENT. (4 cr, §EHS 1050, §Psy 3331; prereq 35 cr and CEHSP student or #; sec 90 (241466) 6:00-7:40 TTh; MonH 206; Staff; \$243.00) [A]

Patterns and theories of development from conception through late adulthood, with emphasis on adulthood; ecosystem analysis of individual, family, and environmental factors affecting lifespan development. Limited to 40 students.

CFD 1050. SEMINAR IN CHILD DEVELOPMENT. (2 cr, §HE 1620; prereq pre-EIEd, pre-early childhood studies, pre-family life education, pre-special education, or #, concurrent regis in EHS 1050; sec 90 (015489) 6:00-7:40 W; MonH 206; Staff; \$121.50) [A]

Study of the development of infants, toddlers, preschool, and elementary-age children. Limited to 40 students.

CFD 1100. HUMAN DIVERSITY. (4 cr, §EHS 1100; prereq CEHSP students or #; sec 90 (741469) 6:00-8:40 M; MonH 206; Staff; \$243.00) [A]

Social, political, economic, and religious implications of human diversity in modern society. Individual perceptions of reactions to physical, psychological, and cultural differences in people. Limited to 40 students.

Spring

CFD 1050. SEMINAR IN CHILD DEVELOPMENT. (2 cr, §HE 1620; prereq pre-EIEd, pre-early childhood studies, pre-family life education, pre-special education, or #, concurrent regis in EHS 1050; sec 90 (028422) 6:00-7:40 T; MonH 206; Staff; \$121.50) [A] Study of the development of infants, toddlers, preschool, and elementary-age children. Limited to 40 students.

CFD 1100. HUMAN DIVERSITY. (4 cr, §EHS 1100; prereq CEHSP students or #; sec 90 (141436) 6:00-8:30 M; MonH 206; Staff; \$243.00) [A]

Social, political, economic, and religious implications of human diversity in modern society. Individual perceptions of reactions to physical, psychological, and cultural differences in people. Limited to 40 students.

Coaching Certification (CC)

Fall

CC 3171. COACHING BASKETBALL. (2 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (109179) 6:00-7:40 Th; SpHC 210; Race, D; \$129.00) [O] Fundamentals, styles of offense and defense, training suggestions. Limited to 30 students.

CC 3172. COACHING VOLLEYBALL. (2 cr, prereq Δ; sec 90 (976754) 6:00-7:40 M; FH, SpHC 208; Rolf, P; \$129.00) [O] Coaching of volleyball offenses and defenses. Conditioning programs, coaching philosophies. Limited to 30 students.

CC 3175. COACHING ICE HOCKEY. (1 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (809824) 6:00-7:40 W; SpHC 210; Sertich, M, Knapp, J; \$64.50) [O] Fundamental skills, systems of offense and defense, strategy and rules of the game, methods of organizing practices. Limited to 30 students.

CC 3177. COACHING TENNIS. (2 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (705135) 6:00-7:40 T; SpHC 208; Roach, D; \$129.00) [O] Strategies, fundamentals, offense and defensive systems, practice drills, and training techniques. Limited to 30 students.

CC 3179. COACHING WRESTLING. (2 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (376757) 7:00-8:40 W; SpHC 208; Ladsten, N; \$129.00) [O] Analysis of physical skills, training aspects, practice sessions, rule interpretations, and coaching philosophies that formulate a sound wrestling program. Limited to 30 students.

Winter

CC 3116. CARE AND PREVENTION OF SPORT INJURIES. (4 cr, prereq coaching certification candidate or Δ; not open to PE majors; sec 90 (913976) 6:00-9:20 W; SpHC 9, 21; Roach, D; \$258.00) [A]

Study of prevention and care of injuries with special emphasis on sport training programs. Reconditioning and preconditioning regimens. Limited to 60 students.

CC 3160. PSYCHOLOGICAL ASPECTS OF COACHING. (2 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (813758) 6:00-7:40 T; SpHC 9; Malosky, J; \$129.00) [O]

Introduction to field of coaching with its educational value coupled with the study of psychological and sociological dimensions of high-level performance. Limited to 60 students.

Spring

CC 3177. COACHING TENNIS. (2 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (743416) 7:00-8:40 T; SpHC 208; Roach, D; \$129.00) [O] Strategies, fundamentals, offense and defensive systems, practice drills, and training techniques. Limited to 30 students.

CC 3270. COACHING BASEBALL. (2 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (633915) 6:00-7:40 M; SpHC 207; Hanna, S; \$129.00) [O] Fundamentals, practice sessions, training techniques, and offensive and defensive strategies. Limited to 30 students.

CC 3271. COACHING SOFTBALL. (2 cr, prereq coaching certification candidate or BAS physical education major or Δ; sec 90 (031885) 6:00-7:40 W; SpHC 9; Haller, W; \$129.00) [O] Fundamentals, practice sessions, training techniques, and offensive and defensive strategies. Limited to 30 students.

Communication (Comm)

Fall

Comm 1101. CONTEMPORARY PERSUASION AND SOCIETY. (3 cr, sec 90 (506772) 6:00-8:40 W; ABAH 445; Katz, V; \$182.25) [A] An examination from a rhetorical perspective of the strategies used by persuaders in our society. Emphasis on preparing students to become more effective and responsible consumers of persuasion. Limited to 50 students.

Comm 1111. PUBLIC SPEAKING. (3 cr, sec 90 (775721) 6:00-8:40 M; ABAH 425; Peterson-Perlman; sec 91 (808351) 6:00-8:40 W; ABAH 425; Nelson, E; \$182.25) [A] Application of the theoretical bases of rhetoric to the public speaking situation. Limited to 26 students each section.

Comm 1202. INTERPERSONAL COMMUNICATION. (3 cr, sec 90 (811444) 6:00-8:40 T; ABAH 425; Staff; sec 91 (009997) 6:00-8:40 Th; ABAH 425; Staff; sec 92 (477706) 6:00-8:40 W; ABAH 425; Zeig, M; \$182.25) [A] An analysis of the role communication plays in interpersonal relationships. Limited to 32 students each section.

Comm 3231. COMMUNICATION IN ORGANIZATIONS I. (3 cr, prereq 1111, jr, sr, or #; sec 90 (005531) 6:00-8:40 M; ABAH 445; Pepper, G; \$193.50) [A] Study of how communication and organizational design affect one another. Analysis of relevant communication issues in the modern organization, including networks, power, leadership, conflict, and organizational design. Limited to 30 students.

Comm 3260. COMMUNICATION IN THE FAMILY. (3 cr, prereq 1202; sec 90 (677705) 6:00-8:40 T; Engr 1118; Graves-Johnson, M; \$193.50) [A] A study of principles of interpersonal communication as they relate to the traditional American family. Limited to 40 students.

Comm 3330. CRITICAL ASSESSMENTS OF TELEVISION. (3 cr, prereq Jour 1100; sec 90 (675744) 6:00-8:40 Th; ABAH 445; Bernabo, L; \$193.50) [A]

An examination of contemporary television programming and advertising using various communication models and the practical application of the models by the television viewer. Limited to 30 students.

Comm 5550. COMMUNICATION AND THE ADVERTISING PROCESS. (3 cr, prereq sr, grad, or #; sec 90 (875743) 6:00-8:40 M; ABAH 435; Krug, L; \$193.50) [A]

Analysis of various theories of advertising and role that communication plays in promotion of images. Students conduct an advertising campaign. Limited to 30 students.

Winter

Comm 1111. PUBLIC SPEAKING. (3 cr, sec 90 (516380) 6:00-8:40 M; ABAH 425; Petersen-Perlman; sec 91 (219127) 6:00-8:40 W; ABAH 425; Staff; \$182.25) [A]

Application of the theoretical bases of rhetoric to the public speaking situation. Limited to 26 students each section.

Comm 1202. INTERPERSONAL COMMUNICATION. (3 cr, sec 90 (017257) 6:00-8:40 T; ABAH 445; Staff; sec 91 (814201) 6:00-8:40 M; ABAH 425; Staff; \$182.25) [A]

An analysis of the role communication plays in interpersonal relationships. Limited to 32 students each section.

Comm 1331. MODES OF FILM COMMUNICATION. (4 cr, sec 90 (120134) 6:00-9:20 Th; MonH 70; Smith, E; \$243.00) [A]

An analysis of film as a medium, with emphasis on the form and function. A study of the technique of feature filmmaking. Includes a mandatory screening session separate from lecture/discussion sections. Limited to 40 students.

Comm 3000. ADVANCED PUBLIC SPEAKING. (3 cr, prereq 1111; sec 90 (841513) 6:00-8:40 T; ABAH 425; Nelson, E; \$193.50) [A]

Continuation of the study and practice of public speaking, with specific emphasis on persuasive speaking. Limited to 24 students.

Comm 3121. GROUP COMMUNICATION. (3 cr, prereq 1202; sec 90 (844217) 6:00-8:40 T; ABAH 425; Graves-Johnson, M; \$193.50) [A]

Techniques of problem solving and study of communication and dynamics within small, task-oriented groups. Limited to 40 students.

Comm 3231. COMMUNICATION IN ORGANIZATIONS I. (3 cr, prereq 1111, jr, sr, or #; sec 90 (115183) 6:00-8:40 M; ABAH 445; Pepper, G; \$193.50) [A]

Study of how communication and organizational design affect one another. Analysis of relevant communication issues in the modern organization, including networks, power, leadership, conflict, and organizational design. Limited to 30 students.

Comm 3250. INTERPERSONAL EFFECTIVENESS. (3 cr, prereq 1202; sec 90 (817325) 6:00-8:40 W; ABAH 445; Katz, V; \$193.50) [A]

In-depth study and practice in the areas of listening skills, assertive communication skills, and conflict management. Limited to 30 students.

Comm 3330. CRITICAL ASSESSMENTS OF TELEVISION. (3 cr, prereq Jour 1100; sec 90 (141517) 6:00-8:40 Th; ABAH 435; Bernabo, L; \$193.50) [A]

An examination of contemporary television programming and advertising using various communication models and the practical application of the models by the television viewer. Limited to 30 students.

Comm 5550. COMMUNICATION AND THE ADVERTISING PROCESS. (3 cr, prereq sr, grad, or #; sec 90 (141525) 6:00-8:40 Th; ABAH 445; Krug, L; \$193.50) [A]

Analysis of various theories of advertising and role that communication plays in promotion of images. Students conduct an advertising campaign. Limited to 60 students.

Spring

Comm 1111. PUBLIC SPEAKING. (3 cr, sec 90 (624177) 6:00-8:40 M; ABAH 425; Krug, L; sec 91 (530599) 6:00-8:40 W; ABAH 425; Petersen-Perlman; \$182.25) [A]

Application of the theoretical bases of rhetoric to the public speaking situation. Limited to 26 students each section.

Comm 1202. INTERPERSONAL COMMUNICATION. (3 cr, sec 90 (032020) 6:00-8:40 M; ABAH 445; Staff; sec 91 (132378) 6:00-8:40 Th; ABAH 445; Staff; \$182.25) [A]

An analysis of the role communication plays in interpersonal relationships. Limited to 32 students each section.

Comm 3000. ADVANCED PUBLIC SPEAKING. (3 cr, prereq 1111; sec 90 (029263) 6:00-8:40 W; ABAH 435; Staff; \$193.50) [A]

Continuation of the study and practice of public speaking, with specific emphasis on persuasive speaking. Limited to 24 students.

Comm 3226. INTERVIEWING: SKILLS AND APPLICATIONS. (4 cr, \$3225; prereq 1111, jr, sr, or #; sec 90 (644204) 6:00-9:20 Th; ABAH 425; Staff, \$258.00) [A]

Theory and techniques of effective interviewing. Emphasis placed on skill development in vocational and persuasive interview settings. Limited to 20 students.

Comm 3230. GENDER COMMUNICATION. (3 cr, prereq 1202; sec 90 (444205) 6:00-8:40 W; ABAH 445; Zeig, M; \$193.50) [A]

Analysis of the changing roles of women and men in modern society and the impact of those changes in establishing meaningful interpersonal relationships. Limited to 30 students.

Comm 3250. INTERPERSONAL EFFECTIVENESS. (3 cr, prereq 1202; sec 90 (826221) 6:00-8:40 T; ABAH 425; Katz, V; \$193.50) [A]

In-depth study and practice in the areas of listening skills, assertive communication skills, and conflict management. Limited to 30 students.

Comm 3341. DOCUMENTARY FILM AND TELEVISION. (3 cr, sec 90 (730469) 6:00-8:40 T; ABAH 445; Johnson, D; \$193.50) [A]

Study of the theories and methods of using the film and television for information, persuasion, and propaganda. Limited to 40 students.

Comm 5230. CONFLICT MANAGEMENT. (3 cr, prereq 3250, sr, grad, or #; sec 90 (042496) 6:00-8:40 M; ABAH 435; Pepper, G; \$193.50) [O]

Application of interpersonal conflict management theory and skills to small group, organizational, and community conflicts. Limited to 20 students.

Communication Disorders (CD)

Fall

CD 5365. DYSPHAGIA. (3 cr, prereq 3411 or #; sec 90 (575736) 5:00-7:30 T; MonH 30; Mizuko, M; \$193.50) [O]

Theoretical and practical study of swallowing disorders. Limited to 20 students.

CD 5730. SIGN LANGUAGE I. (3 cr, prereq #; sec 90 (908616) 6:00-8:30 T; MonH 203; Diener, N; sec 91 (106628) 6:00-8:30 T; MonH 206; Weidman, A; \$193.50) [O]

Application of basic vocabulary in American Sign Language and fingerspelling alphabet in a manual representation of English. Introduction to various sign systems, their use by the deaf and in teaching the deaf. Limited to 24 students each section.

CD 5755. AMERICAN SIGN LANGUAGE STUDIES: THEORY AND PRACTICE I. (3 cr, [cr cannot be applied to a Graduate School program], §5750; prereq 5740 or #; sec 90 (110629) 4:00-5:30 TTh; MonH 209; Diener, N; \$193.50) [O]
Beginning level study of grammatical and linguistic features of ASL; focus on expressive and receptive skills. Limited to 20 students.

Winter

CD 5735. SIGN LANGUAGE II. (3 cr, prereq 5730 or #; sec 90 (118531) 6:00-8:30 T; MonH 203; Diener, N; sec 91 (016500) 6:00-8:30 T; MonH 206; Passi, C; \$193.50) [O]
Expansion of vocabulary base in American Sign Language. Comparative linguistic study of various sign systems, their use by the deaf and in teaching the deaf. Limited to 12 students each section.

CD 5760. AMERICAN SIGN LANGUAGE STUDIES: THEORY AND PRACTICE II. (3 cr, [cr cannot be applied to a Graduate School program]; prereq 5755 or #; sec 90 (523569) 4:00-5:30 TTh; Mon 203; Diener, N; \$193.50) [O]
Intermediate level study of grammatical and linguistic features of ASL; focus on developing fluency in expressive and receptive skills. Limited to 10 students.

Spring

CD 5740. SIGN LANGUAGE III. (3 cr, prereq 5735 or #; sec 90 (133070) 6:00-8:30 T; MonH 203; Diener, N; sec 92 (831161) 6:00-8:30 T; MonH 206; Passi, C; \$193.50) [O]
In-depth study of principles of American Sign Language as used receptively and expressively in communication with deaf individuals. Limited to 25 students.

CD 5765. AMERICAN SIGN LANGUAGE STUDIES: THEORY AND PRACTICE III. (3 cr, [cr cannot be applied to a Graduate School program]; prereq 5760 or #; sec 90 (624535) 4:00-5:30 TTh; MonH 203; Diener, N; \$193.50) [O]
Advanced level study of grammatical and linguistic features of ASL; focus on understanding deaf culture and fluency in expressive and receptive skills. Limited to 15 students.

Composition (Comp)

Fall

Comp 1100. WORD PROCESSING FOR WRITING. (1 cr, §Engl 1100; cr not applicable to English major or minor; sec 90 (106203) 6:00-7:50 W; **special term Sept 4-Oct 9**; H 470; Korby, N; \$60.75 and \$60.00 computer access fee) [P]
Basic computer literacy in word processing and Computer Aided Instruction (CAI) used in Comp 1110. Limited to 25 students.

Comp 1120. COLLEGE WRITING. (5 cr, §Comp 1110, §Engl 1110; students speaking English as a second language must have completed Engl 1802 or TOEFL with a score of 550; sec 90 (102832) 6:00-7:40 TTh; H 480; lab 5:00-5:50 Th, H 470; Staff; \$303.75 and \$60.00 computer access fee) [A]
Instruction and practice in writing argumentative prose for academic situations with integrated word processing laboratory. Limited to 25 students.

Winter

Comp 1100. WORD PROCESSING FOR WRITING. (1 cr, §Engl 1100; cr not applicable to English major or minor; sec 90 (118181) 6:00-7:50 W; **special term Dec 4-Jan 15**; H 470; Staff; \$60.75 and \$60.00 computer access fee) [P]
Basic computer literacy in word processing and Computer Aided Instruction (CAI) used in Comp 1120. Limited to 25 students.

Comp 1120. COLLEGE WRITING. (5 cr, §Comp 1110, §Engl 1110; students speaking English as a second language must have completed Engl 1802 or TOEFL with a score of 550; sec 90 (820645) 6:00-7:40 TTh; H 480; lab 5:00-5:50 Th, H 470; Staff; \$303.75 and \$60.00 computer access fee) [A]
Instruction and practice in writing argumentative prose for academic situations with integrated word processing laboratory. Limited to 25 students.

Comp 3100. ADVANCED WRITING: LANGUAGE AND LITERATURE. (4 cr, §Engl 3100, §Engl 3111; prereq 1110 or Engl 1110, 90 cr, upper division papers filed; sec 90 (641559) 6:00-7:40 TTh; BohH 234; Staff; \$258.00) [A]
Writing of critical essays and analyses involving use of oral, published, and archival materials on topics in liberal arts. Limited to 25 students.

Comp 3160. ADVANCED WRITING: SOCIAL SCIENCES. (4 cr, §Engl 3160; prereq 1110, 1120 or Engl 1110, 90 cr, upper division papers filed; sec 90 (614765) 6:00-7:40 TTh; H 480; Staff; \$258.00) [A]
Practice in social sciences writing. Limited to 25 students.

Spring

Comp 1100. WORD PROCESSING FOR WRITING. (1 cr, §Engl 1100; cr not applicable to English major or minor; sec 90 (432989) 6:00-7:50 W; **special term March 11-April 8**; H 470; Staff; \$60.75 and \$60.00 computer access fee) [P]
Basic computer literacy in word processing and Computer Aided Instruction (CAI) used in Comp 1110. Limited to 25 students.

Comp 1120. COLLEGE WRITING. (5 cr, §Comp 1110, §Engl 1110; students speaking English as a second language must have completed Engl 1802 or TOEFL with a score of 550; sec 90 (130307) 6:00-7:40 TTh; H 480; lab 5:00-5:50 Th, H 470; Staff; \$303.75 and \$60.00 computer access fee) [A]
Instruction and practice in writing argumentative prose for academic situations with integrated word processing laboratory. Limited to 25 students.

Comp 3120. ADVANCED WRITING: BUSINESS. (4 cr, §Engl 3120; prereq 1110, 1120 or Engl 1110, SBE candidate with 135 cr, upper division papers filed, FMIS 3140 or #; sec 90 (741486) 6:00-7:50 MW; H 480; Staff; \$258.00) [O]
Practice in writing business. Limited to 25 students.

Computer Science (CS)

Fall

CS 1500. INTRODUCTION TO PROGRAMMING IN PASCAL. (3 cr, §1502; prereq Math 1001 or 1 yr high school algebra or #; recommended for students with no prior programming experience; sec 90 (875869) 6:00-6:50 TTh; MWAH 195; lab 7:00-7:50 TTh, MWAH 195; Staff; \$182.25 and \$60.00 computer access fee) [A]
Introduction to programming concepts using the programming language Pascal. Emphasis on basic concepts such as assignment, selection, repetition, modularity with procedures. Designed for those students with no prior programming experience or those who need additional background before enrolling in Computer Science I. Limited to 30 students.

CS 1501. FORTRAN PROGRAMMING. (3 cr, §1622, §1622H, §1642; §3101; prereq Math 1001 or 1 yr high school algebra or #; sec 90 (275844) 6:00-6:50 MW; Chem 347; lab 7:00-7:50 MW, Chem 347; Staff; \$182.25 and \$60.00 computer access fee) [A]
Study of FORTRAN programming language and its application in the sciences and engineering. Those with two or more quarters of programming experience should take 3101. Limited to 30 students.

CS 1540. PROGRAMMING IN LOGO. (4 cr, prereq Math 1110 or equiv or #; sec 90 (675873) 6:00-7:15 MW, lab 7:25-8:15 MW; MWAH 195; Staff; \$243.00 and \$60.00 computer access fee) [A]
LOGO programming using turtle graphics and word and list features. Limited to 30 students.

CS 1621. COMPUTER SCIENCE I. (5 cr, §1621H, §1641; prereq 3 1/2 yrs high school mathematics and 1/2 yr high school computer programming or 1 qtr college programming, or #; sec 90 (175876) 6:00-8:05 TTh; MWAH 191; lab 8:15-9:05 TTh, MWAH 191; Staff; \$303.75 and \$60.00 computer access fee) [A]
Comprehensive introduction to computer problem solving utilizing a structured, top-down approach. Application of software engineering principles in the design, coding, and testing of small to moderate size programs. Description of essential data structures as abstract data types. Detailed study and analysis of algorithms involving searching, sorting, and recursion. Limited to 30 students.

CS 3506. COBOL PROGRAMMING. (4 cr, prereq 1 qtr of programming or #; sec 90 (975829) 6:00-7:15 MW; HH 216; lab 7:25-8:15 M, H 470; Hill, C; \$258.00 and \$60.00 computer access fee) [A]
COBOL and preparation of programs with business applications. Limited to 30 students.

Winter

CS 1501. FORTRAN PROGRAMMING. (3 cr, §1622, §1622H, §1642; §3101; prereq Math 1001 or 1 yr high school algebra or #; sec 90 (218401) 6:00-6:50 MW; MWAH 191; lab 7:00-7:50 MW; Room TBA; Staff; \$182.25 and \$60.00 computer access fee) [A]
Study of FORTRAN programming language and its application in the sciences and engineering. Those with two or more quarters of programming experience should take 3101. Limited to 30 students.

CS 1622. COMPUTER SCIENCE II. (5 cr, §1622H, §1642; prereq 3 1/2 yrs high school mathematics and 1/2 yr high school computer programming or 1 qtr college programming, or #; sec 90 (341717) 6:00-8:05 TTh; Room TBA; lab 8:15-9:05 TTh; Staff; \$303.75) [A]
Comprehensive introduction to computer problem solving utilizing a structured, top-down approach. Application of software engineering principles in the design, coding, and testing of small to moderate size programs. Description of essential data structures as abstract data types. Detailed study and analysis of algorithms involving searching, sorting, and recursion. Limited to 30 students.

Spring

CS 1500. INTRODUCTION TO PROGRAMMING IN PASCAL. (3 cr, §1502; prereq Math 1001 or 1 yr high school algebra or #; recommended for students with no prior programming experience; sec 90 (326425) 6:00-6:50 MW; LSci 160; lab 7:00-7:50 MW; Room TBA; Staff; \$182.25 and \$60.00 computer access fee) [A]
Introduction to programming concepts using the programming language Pascal. Emphasis on basic concepts such as assignment, selection, repetition, modularity with procedures. Designed for those students with no prior programming experience or those who need additional background before enrolling in Computer Science I. Limited to 30 students.

CS 1511. INTERMEDIATE FORTRAN. (4 cr, §1622, §1622H, §1642; prereq 1501 or #; not open to pre-CS or CS majors; sec 90 (427744) 6:00-7:15 TTh; HH 302; lab 7:25-8:15 TTh; Room TBA; Staff; \$243.00) [A]

Multidimensional arrays, sequential and direct-access files, UNIX operating system interface, comparative searching strategies (sequential, binary hashing, direct access), sorting techniques, data structures (stacks, queues, indexed arrays), non-standard recursion, complex and double-precision arithmetic, team programming. Limited to 30 students.

CS 1530. BASIC PROGRAMMING. (3 cr, §1531, §1621, §1621H, §1641; prereq 1 yr high school algebra or #; sec 90 (741567) 6:00-6:50 TTh; Room TBA; lab 7:00-7:50 TTh; Room TBA; Staff; \$182.25) [A]

Study of the BASIC programming language and the preparation of elementary programs including use of microcomputers, evaluation, and modification of existing programs. Applications of the computer in instruction. For students with no prior programming experience. Limited to 30 students.

CS 1623. COMPUTER SCIENCE III. (5 cr, §1623H, §1643; prereq 3 1/2 yrs high school mathematics and 1/2 yr high school computer programming or 1 qtr college programming, or #; sec 90 (341569) 6:00-8:05 MW; Room TBA; lab 8:15-9:05 MW; Staff; \$303.75 and \$60.00 computer access fee) [A]

Comprehensive introduction to computer problem solving utilizing a structured, top-down approach. Application of software engineering principles in the design, coding, and testing of small to moderate size programs. Description of essential data structures as abstract data types. Detailed study and analysis of algorithms involving searching, sorting, and recursion. Limited to 30 students.

Dance (Dn)

Fall

Dn 1131. BALLET TECHNIQUE I. (3 cr, [may be repeated for a max of 18 cr]; sec 90 (611249) 5:00-6:20 MWF; MPAC 155; Manary, D; \$182.25) [A]

Beginning work in ballet technique with emphasis on ballet as a performing art form. Students are encouraged to enroll fall quarter. Limited to 20 students.

Dn 3231. BALLET TECHNIQUE II. (3 cr, [may be repeated for a max of 27 cr]; prereq #; sec 90 (007778) 5:00-7:15 TTh; MPAC 155; Manary, D; \$193.50 and \$5.00 materials fee) [A]

Intermediate level work in ballet technique with emphasis on ballet as a performing art. Limited to 20 students.

Winter

Dn 1131. BALLET TECHNIQUE I. (3 cr, [may be repeated for a max of 18 cr]; sec 90 (916022) 5:00-6:20 MWF; MPAC 155; Manary, D; \$182.25) [A]

Beginning work in ballet technique with emphasis on ballet as a performing art form. Students are encouraged to enroll fall quarter. Limited to 20 students.

Dn 3231. BALLET TECHNIQUE II. (3 cr, [may be repeated for a max of 27 cr]; prereq #; sec 90 (523670) 5:00-7:15 TTh; MPAC 155; Manary, D; \$193.50 and \$5.00 materials fee) [A]

Intermediate level work in ballet technique with emphasis on ballet as a performing art. Limited to 20 students.

Spring

Dn 1131. BALLET TECHNIQUE I. (3 cr, [may be repeated for a max of 18 cr]; sec 90 (226420) 5:00-6:20 MWF; MPAC 155; Manary, D; \$182.25) [A]

Beginning work in ballet technique with emphasis on ballet as a performing art form. Students are encouraged to enroll fall quarter. Limited to 20 students.

Dn 3611. DANCE HISTORY. (4 cr, prereq 1500 or #; sec 90 (241581) 5:00-6:20 TTh; Room TBA; Manary, D; \$258.00) [A]

Survey of religious, social, political, and artistic forces that have contributed to development of dance in Western civilization; emphasis on Romantic period through present. Limited to 20 students.

Economics (Econ)

Fall

Econ 1002. INTRODUCTION TO ECONOMICS. (4 cr, [cr not allowed toward economics major or minor, BA or BBA degree]; designed specifically for liberal education purposes; sec 90 (209827) 6:00-9:00 W; SBE 36; Anderson, C; \$243.00) [O]

General description of the economy of the United States and analysis of contemporary economic problems. Introduction to major economic issues and problems of the day providing a simple framework, used by the economist, for analysis of these issues and problems. Limited to 46 students.

Econ 1004. PRINCIPLES OF ECONOMICS: MICRO. (4 cr, sec 90 (112602) 5:00-8:20 T; Engr 280; Jesswein, W; \$243.00) [A]

Demand and supply; utility, production and cost, output market analysis, input market analysis, applications of microeconomics. Of value to the general education student and required for majors and minors in economics and for baccalaureate students in the School of Business and Economics. Limited to 50 students.

Econ 1203. STATISTICAL METHODS. (4 cr, prereq 1004, 1005, and Math 1156 or equiv, 30 cr, SBE student, Econ major, Soc Sci-Tchg Soc Studies major with Econ concentration, or Acct/Bus Adm/Econ minor; sec 90 (510160) 5:00-8:20 T; SBE 36; O'Brien, M; \$243.00) [A]

Introduction to modern business statistics, emphasizing problem solving through statistical decision making. Topics include organization and presentation of data, summary statistics, probability theory, distributions, estimation, test of hypotheses, introduction to use of computers in statistical analysis. Limited to 46 students.

Econ 3104. MICROECONOMIC ANALYSIS. (4 cr, prereq 1004, 1005, and Math 1160, SBE candidate, Econ major, Soc Sci-Tchg Soc Studies major with Econ concentration, or Acct/Bus Adm/Econ minor with 90 cr; sec 90 (502270) 6:00-9:20 M; SBE 36; Lichty, R; \$258.00) [A]

Behavior of households as consuming units and suppliers of resources; analysis of decision making by firms under various market conditions. Limited to 46 students.

Winter

Econ 1005. PRINCIPLES OF ECONOMICS: MACRO. (4 cr, sec 90 (221881) 5:00-8:20 W; SBE 36; Peterson, J; \$243.00) [A]

National income accounting, national income theory, public finance, money, monetary policy, international trade, economic growth. Of value to the general education student and required for majors and minors in economics and for baccalaureate students in the School of Business and Economics. Limited to 46 students.

Econ 1204. QUANTITATIVE RESEARCH METHODS. (4 cr, prereq 1203, CS 1500 or CS 1501 or FMIS 1201, 30 cr, SBE student, or Econ major/minor; sec 90 (514337) 5:00-8:20 T; SBE 36; Raab, R; \$243.00 and \$60.00 computer access fee) [A]

Study of techniques and tools used in analyzing economic and business data: general linear regression models, correlation and analysis of variance, forecasting and time series analysis, Chi-Square application, experimental design, strategic research planning including computer-based analysis. Limited to 35 students.

Econ 3346. PRINCIPLES OF URBAN ECONOMICS. (4 cr, prereq 1004, 45 cr; sec 90 (941762) 6:00-9:40 M; MonH 206; Lichty, R; \$258.00) [A]

The analysis of the growth of urban centers in a developed economy and the particular problems associated with this growth. Emphasis will be placed on the economic structure of cities so that alternative policy measures may be evaluated. Limited to 50 students.

Econ 5003. CONSUMER ECONOMICS. (4 cr, prereq 1004, 1005, or □; sec 90 (041767) 6:00-9:20 W; MonH 206; Nelson, D; \$258.00) [A]

Application of economic principles to major decisions of consumers. Concept of alternative choice. Opportunity cost. How to use income most effectively; use of credit; saving; insurance principles; analysis of advertising as it affects the consumer; sources of consumer information; product-testing agencies; analysis of contracts common to consumers; government efforts to protect consumers. Limited to 50 students.

Spring

Econ 1002. INTRODUCTION TO ECONOMICS. (4 cr, [cr not allowed toward economics major or minor, BA or BBA degree]; designed specifically for liberal education purposes; sec 90 (331009) 5:00-8:00 T; SBE 36; Anderson, C; \$243.00) [O]

General description of the economy of the United States and analysis of contemporary economic problems. Introduction to major economic issues and problems of the day providing a simple framework, used by the economist, for analysis of these issues and problems. Limited to 46 students.

Econ 1004. PRINCIPLES OF ECONOMICS: MICRO. (4 cr, sec 90 (424178) 6:00-9:20 T; MonH 206; Jesswein, W; \$243.00) [A]

Demand and supply; utility, production and cost, output market analysis, input market analysis, applications of microeconomics. Of value to the general education student and required for majors and minors in economics and for baccalaureate students in the School of Business and Economics. Limited to 50 students.

Econ 1005. PRINCIPLES OF ECONOMICS: MACRO. (4 cr, sec 90 (125110) 6:00-9:20 Th; SBE 36; Junk, P; \$243.00) [A]

National income accounting, national income theory, public finance, money, monetary policy, international trade, economic growth. Of value to the general education student and required for majors and minors in economics and for baccalaureate students in the School of Business and Economics. Limited to 46 students.

Econ 1203. STATISTICAL METHODS. (4 cr, prereq 1004, 1005, and Math 1156 or equiv, 30 cr, SBE student, Econ major, Soc Sci-Tchg Soc Studies major with Econ concentration, or Acct/Bus Adm/Econ minor; sec 90 (028971) 6:00-9:20 M; SBE 36; O'Brien, M; \$243.00) [A]

Introduction to modern business statistics, emphasizing problem solving through statistical decision making. Topics include organization and presentation of data, summary statistics, probability theory, distributions, estimation, test of hypotheses, introduction to use of computers in statistical analysis. Limited to 35 students.

Econ 1204. QUANTITATIVE RESEARCH METHODS. (4 cr, prereq 1203, CS 1500 or CS 1501 or FMIS 1201, 30 cr, SBE student, or Econ major/minor; sec 90 (029652) 6:00-9:20 M; MonH 206; Raab, R; \$243.00 and \$60.00 computer access fee) [A]

Study of techniques and tools used in analyzing economic and business data: general linear regression models, correlation and analysis of variance, forecasting and time series analysis, Chi-Square application, experimental design, strategic research planning including computer-based analysis. Limited to 35 students.

Econ 3105. MACROECONOMIC ANALYSIS. (4 cr, prereq 1004, 1005, and Math 1160, SBE candidate, Econ major, Soc Sci-Tchg Soc Studies major with Econ concentration, or Acct/Bus Adm/Econ minor with 90 cr; sec 90 (741598) 6:00-9:20 W; SBE 36; Peterson, J; \$258.00) [A]

Determinants of national income, employment, and price levels with particular attention to aggregate demand and aggregate supply, and monetary and fiscal policy. Limited to 35 students.

Education (Educ)

Fall

Educ 1101. EDUCATION IN MODERN SOCIETY. (4 cr, sec 90 (911659) 6:00-9:40 T; MonH 80; Guldbrandsen, F; \$243.00) [O]
A survey of the various educational institutions and practices used in the different sectors of society. Limited to 150 students.

Educ 5146. THE FUTURE AND EDUCATION. (3 cr, sec 90 (175402) 6:00-8:30 W; BohH 112; Kreutzkamp, J; \$193.50) [O]
Study of the effects of technological and social changes upon education and of the future-conscious educational program. Limited to 25 students.

Educ 5163. OUTDOOR EDUCATION METHODS. (3 cr, sec 90 (909796) 6:00-8:30 M; BohH 108; Gilbertson, K; \$193.50 and \$50.00 materials fee) [A]
Interpreting and teaching natural history using the outdoors. Limited to 25 students.

Educ 5421. RESEARCH METHODS IN EDUCATION. (3 cr, \$5420; prereq admission to MEd or MA program or #; sec 90 (903125) 6:00-9:30 M; special term Sept 16-Nov 4; BohH 104; Boman, T; \$193.50) [O]
The planning, design, implementation, analysis of data, evaluation, and reporting associated with classroom research and research within school systems. Limited to 25 students.

Winter

Educ 5130. PREVENTION OF CLASSROOM CONFLICT. (3 cr, prereq #; sec 90 (241774) 6:00-8:30 T; BohH 112; Guldbrandsen, F; \$193.50) [O]
A specific approach for the prevention of school conflict problems. Based on the work of Paolo Freire. Limited to 25 students.

Educ 5159. IMPROVING EDUCATIONAL PRODUCTIVITY. (3 cr, sec 90 (414198) 6:00-8:40 M; BohH 112; Boman, T; \$193.50) [A]
Learning to work smarter, not harder; an exploration and analysis of what various experts believe can improve the efficiency and effectiveness of American education. Limited to 25 students.

Educ 5841. HISTORY OF AMERICAN EDUCATION. (3 cr, prereq 9 cr in education or #; sec 90 (141775) 6:00-8:30 W; BohH 112; Kreutzkamp, J; \$193.50) [O]
Selected readings in American intellectual, political, economic, and social development; special reference to an emerging system of public education. Limited to 25 students.

Spring

Educ 3601. WILDERNESS PHILOSOPHY. (3 cr, prereq #; sec 90 (832021) 6:00-8:30 Th; BohH 108; Gilbertson, K; \$193.50) [O]
People and social forces that influenced land-use ethics and policies in northern Midwest; philosophical and historical basis for outdoor education and interpretation. Limited to 30 students.

Educ 5145. TESTING PRACTICES IN U.S. SCHOOLS. (3 cr, prereq tchg exper or #; sec 90 (530330) 6:00-8:30 M; special term March 9-April 27; BohH 112; Boman, T; \$193.50) [A]
Practices and issues related to the use of tests and test data in the U.S. schools. Designed to assist educators in becoming wise designers and consumers of tests and test data. Limited to 25 students.

Educ 5358. MATHEMATICS THROUGH ACTIVITY. (3 cr, prereq #; sec 90 (141629) 6:00-8:30 M; BohH 346; Hendrickson, D; \$193.50) [O]
Teaching mathematical concepts through use of manipulative materials, discovery and problem-solving activities; Piaget applied to mathematics instruction. Limited to 25 students.

Educ 5379. HUMANIZING EDUCATION. (3 cr, prereq 10 cr in education; sec 90 (441630) 6:00-8:30 T; BohH 234; Guldbrandsen, F; \$193.50) [O]
Provides theory and practice opportunities for developing more human-centered approaches to learning. Emphasis on the affective domain. Limited to 25 students.

Educ 5401. THE CREATIVE AND INTELLECTUALLY GIFTED. (3 cr, open to jrs and above; sec 90 (141632) 6:00-8:30 W; BohH 234; Kreutzkamp, J; \$193.50) [O]
An introductory study of identification processes for, characteristics of, service needs of, and program differences for the high potential student. Limited to 25 students.

Educ 5600. MODELS FOR STAFF DEVELOPMENT. (3 cr, prereq #; sec 90 (741634) 6:00-8:30 Th; BohH 234; Rallis, H; \$193.50) [A]
Models for helping staff improve classroom instruction. Emphasis on clinical approaches including Madeline Hunter. Analysis of videotaped lessons. Limited to 25 students.

Education and Human Service Professions (EHS)

Winter

EHS 5850. CLASSROOM LEARNING APPLICATIONS. (3 cr, prereq #; sec 90 (541778) 6:00-8:30 Th; BohH 346; Hendrickson, D; \$193.50) [A]
Cognitive processes in education in preparation for teaching and curriculum development. Emphasis on application of learning theory to development of knowledge systems as applied in education. Limited to 25 students.

Electronics Technology (ET)

Fall

ET 1801. FUNDAMENTALS OF DC ELECTRICITY. (4 cr, \$1nd 1805, sec 90 (275410) 6:00-8:30 MW; lab arr; Engr 290; Ringsred, J; \$243.00) [A]
Basic physical concepts of electricity, generation of DC electricity, conversion of electrical energy, DC network analysis, Kirchhoff's laws, and network theorems. Limited to 20 students.

ET 3852. INTRODUCTION TO MICROPROCESSORS. (4 cr, §Ind 3855; prereq 3851 or Ind 3854 or #; sec 90 (075420) 6:00-8:30 TTh; lab arr; Engr 290; Syck, J; \$258.00) [A]

The study of microprocessor architecture, interfacing, I/O devices, and the machine language programming of microprocessors for industrial applications. Limited to 24 students.

Winter

ET 3850. INTRODUCTION TO DIGITAL ELECTRONICS. (4 cr, §Ind 3853; prereq 1801 or Ind 1805 or #; sec 90 (141789) 6:00-8:30 MW; Engr 280; lab arr; Ringsred, J; \$258.00) [A]

Introduction to logic circuits and digital design techniques. Topics include gates, flip flops, number systems, binary codes, arithmetic circuits, counters, registers, Boolean algebra, and Karnaugh maps. Limited to 20 students.

ET 3853. MICROPROCESSOR SYSTEM DESIGN AND OPERATION. (4 cr, §Ind 3856; prereq 3852 or Ind 3855 or #; sec 90 (817468) 6:00-8:30 TTh; Engr 290; lab arr; Syck, J; \$258.00) [A]

In-depth study of microprocessor architecture and microprocessor systems that employ advanced programming techniques in assembly language dealing with interrupts and various I/O devices. Limited to 24 students.

Spring

ET 3851. DIGITAL SYSTEMS AND CIRCUITS. (4 cr, §Ind 3854; prereq 3850 or Ind 3853 or #; sec 90 (141646) 6:00-8:30 MW; Engr 280; lab arr; Ringsred, J; \$258.00) [A]

Methods and circuits used to perform various digital functions such as A to D and D to A conversion, arithmetic operations, I/O systems, memories, etc. Limited to 20 students.

ET 3854. REAL-TIME MICROPROCESSOR APPLICATIONS. (4 cr, §Ind 3857; prereq 3853 or Ind 3856 or #; sec 90 (131148) 6:00-8:30 TTh; Engr 290; lab arr; Syck, J; \$258.00) [A]

Application of microprocessors in real-time environments, concept of interrupt-driven operating systems. Emphasis on laboratory development of real-time process control simulations, hardware protocols. Limited to 20 students.

Elementary Education (EIEd)

Fall

EIEd 3320. STORYTELLING. (2 cr, sec 90 (375446) 6:00-7:40 T; MonH 111; Staff; \$129.00) [A]

Past and present needs for storytelling; sources and selection of suitable stories; experience in telling folktales, fairy tales, realistic stories. Limited to 30 students.

Spring

EIEd 3320. STORYTELLING. (2 cr, sec 90 (126337) 6:00-7:40 Th; BohH 346; Staff; \$129.00) [A]

Past and present needs for storytelling; sources and selection of suitable stories; experience in telling folktales, fairy tales, realistic stories. Limited to 30 students.

English (Engl)

Fall

Engl 1907. INTRODUCTION TO LITERATURE. (4 cr, sec 91 (877685) 6:00-7:40 WTh; H 403; Staff; \$243.00) [A]

Introduction to drama, fiction, and poetry and to methods of critical analysis and interpretation. Limited to 50 students.

Engl 3371. CONTEMPORARY LITERATURE. (4 cr, sec 90 (675453) 6:00-7:15 MT; H 490; Sutter, B; \$258.00) [O]

Readings in American and British literature since 1945 arranged by types of discourse. Poetry. Limited to 35 students.

Winter

Engl 3471. CONTEMPORARY LITERATURE. (4 cr, sec 90 (241841) 6:00-7:15 TTh; Room TBA; Lips, R; \$258.00) [O]

Readings in American and British literature since 1945 arranged by types of discourse. Novel. Limited to 35 students.

Spring

Engl 1564. AMERICAN LITERATURE. (4 cr, sec 90 (341667) 6:00-7:25 MW; Cina 102; Staff; \$243.00) [A]

Historical survey of important authors, movements, conventions, genres, and themes. 1916 to present (Modern, Contemporary). Limited to 50 students.

Engl 3223. SHAKESPEARE. (4 cr, sec 90 (141668) 6:00-7:15 TTh; Room TBA; Jankofsky, K; \$258.00) [O]

An introduction to Shakespeare. Selected plays from the histories, comedies, tragedies, and dramatic romances. Such aspects of drama as structure, language, characterization, theme, and dramatic conventions will be examined in the study of individual plays. Limited to 50 students.

Family Life (FamL)

Fall

FamL 1470. SURVEY OF HUMAN NUTRITION. (3 cr, §HE 1470; sec 90 (510630) 6:00-8:30 M; MonH 108; Staff; \$182.25) [A]

Survey of nutrients with emphasis on the foundation of a balanced diet required for physical well-being and maintenance of health. Limited to 30 students.

FamL 1655. DYNAMICS OF FAMILY LIVING. (3 cr, §HE 1655; prereq CFD 1000 or Psy 1003; sec 90 (175464) 6:00-8:30 T; MonH 108; Staff; \$182.25) [A]

Dynamics of social-psychological forces affecting family interaction, parent-child relationships, and varying family lifestyles. Limited to 30 students.

FamL 3675. MARITAL INTERACTION. (3 cr, §HE 3675; prereq 90 cr or #; sec 90 (176713) 6:00-8:30 T; ABAH 445; Staff; \$193.50) [A]

Application of principles from the behavioral sciences to marital roles, adjustments, communication, and satisfaction. Limited to 25 students.

FamL 3740. MANAGEMENT IN FAMILY SYSTEMS. (4 cr, §HE 3740; sec 90 (176882) 6:00-8:30 Th plus 2 hrs per wk practicum arr; MonH 108; Staff; \$258.00) [A]

Scope and process of managerial activity of individuals and families; utilization of a systems framework to analyze and apply management concepts; supervised fieldwork with families. Limited to 25 students.

FamL 5470. SPORTS NUTRITION. (3 cr, §HE 5470; prereq 1470 or #; sec 90 (604611) 6:00-8:30 W; MonH 108; Staff; \$258.00) [A] Relationship between nutrients and special demands of athletes. Achieving competitive weight; planning training meals to achieve competitive weight and performance. Nutrition in the framework of competitive and recreational athletes. Limited to 30 students.

Winter

FamL 1470. SURVEY OF HUMAN NUTRITION. (3 cr, §HE 1470; sec 90 (417523) 6:00-8:40 M; MonH 108; Staff; \$182.25) [A] Survey of nutrients with emphasis on the foundation of a balanced diet required for physical well-being and maintenance of health. Limited to 30 students.

FamL 3770. CONSUMER MONEY MANAGEMENT. (3 cr, §HE 3770; prereq 90 cr or #; sec 90 (643425) 6:00-8:30 T; MonH 108; Staff; \$193.50) [A] Consumer rights and responsibilities, factors affecting consumer decisions, management of individual and family income. Limited to 25 students.

FamL 5470. SPORTS NUTRITION. (3 cr, §HE 5470; prereq 1470 or #; sec 90 (541859) 6:00-8:30 W; MonH 111; Staff; \$193.50) [A] Relationship between nutrients and special demands of athletes. Achieving competitive weight; planning training meals to achieve competitive weight and performance. Nutrition in the framework of competitive and recreational athletes. Limited to 30 students.

Spring

FamL 1470. SURVEY OF HUMAN NUTRITION. (3 cr, §HE 1470; sec 90 (629301) 6:00-8:30 W; MonH 108; Staff; \$182.25) [A] Survey of nutrients with emphasis on the foundation of a balanced diet required for physical well-being and maintenance of health. Limited to 30 students.

FamL 1655. DYNAMICS OF FAMILY LIVING. (3 cr, §HE 1655; prereq CFD 1000 or Psy 1003; sec 90 (943415) 6:00-8:30 M; MonH 108; Staff; \$182.25) [A] Dynamics of social-psychological forces affecting family interaction, parent-child relationships, and varying family lifestyles. Limited to 25 students.

FamL 5455. CONTEMPORARY ISSUES IN NUTRITION. (3 cr, §HE 5455; prereq 1470; sec 90 (133997) 6:00-8:30 M; MonH 108; Staff; \$193.50) [A] Examination of current developments and controversies in nutrition. Limited to 30 students.

FamL 5660. TOPICS IN FAMILY RELATIONSHIPS: STEP-FAMILIES. (3 cr, [may be repeated for a max of 12 cr; no more than a total of 6 cr can be applied to a Graduate School program], §HE 5660; prereq 1655 or #; sec 90 (044247) 6:00-8:30 W; Room TBA; Zeppa, A; \$193.50) [A] Analysis of factors affecting the quality and stability of blended families; examination of the complexities of stepfamily relationships; strategies for facilitating adjustment. Limited to 25 students.

Finance and Management Information Services (FMIS)

Fall

FMIS 1201. INTRODUCTION TO BUSINESS INFORMATION SYSTEMS. (4 cr, §1202; prereq SBE student, Econ major, or Acct/Bus Adm/Econ minor, or □; lect 6:30-8:40 M; SBE 16; lab 90 (375995) 5:30-6:20 M, SBE 45; lab 93 (376001) 8:50-9:40 M; SBE 45; Duff, T; \$243.00 and \$60.00 computer access fee) [A] Overview of organizational information systems and their computer hardware and software components. Some mainframe but primarily microcomputer data and information processing. Use of spreadsheet, data base, and other commonly used business software to complete business tasks. Limited to 30 students each section.

FMIS 3140. BUSINESS COMMUNICATIONS. (4 cr, prereq Comp 1120, SBE candidate, Econ major, Acct/Bus Adm/Econ minor with 90 cr or □; sec 90 (812013) 6:00-9:20 M; SBE 40; Zollar, M; \$258.00 and \$60.00 computer access fee) [A] Examination of foundations of communication, language of business, cultural environment of international business. Concentration on developing skills of communicating through letters, memorandums, and reports. Review of creation and distribution of written communications through electronic media. Limited to 30 students.

FMIS 3201. MANAGEMENT SCIENCE. (4 cr, §3203; prereq SBE candidate or Bus Adm minor with 90 cr or □; sec 90 (976012) 6:00-9:20 Th; SBE 16; Brey, T; \$258.00 and \$60.00 computer access fee) [A]

Introductory survey of the role of management science in supporting organizational decision making. Topics include management decision making within both deterministic and probabilistic environments and stress the role of interactive computer-based decision support systems in modern management. Limited to 50 students.

FMIS 3301. OPERATIONS MANAGEMENT I. (4 cr, prereq SBE candidate, Geol (mining) major, Acct/Bus Adm minor with 90 cr, or □; sec 90 (003231) 6:00-9:20 M; Engr 118; Baxter, E; \$258.00) [A] Introduction to processes and methods for managing operations function in manufacturing and service organizations. Emphasis on managerial processes of planning and controlling production process, production capacity, product quality, work force levels, productivity, and inventory. Computer-based analysis. Limited to 50 students.

FMIS 3647. FINANCIAL MARKETS AND INSTITUTIONS. (4 cr, prereq 3611, SBE candidate, Acct/Bus Adm minor with 90 cr, or □; sec 90 (476023) 6:00-9:20 Th; SBE 40; Wong, S; \$258.00) [A] Analysis of money and capital markets, savings-investment process, and financial institutions. Role of Federal Reserve and Treasury in financial market development; supply and demand for loanable funds; level and structure of interest rates. Asset/liability management. Limited to 30 students.

Winter

FMIS 1201. INTRODUCTION TO BUSINESS INFORMATION SYSTEMS. (4 cr, §1202; prereq SBE student, Econ major, or Acct/Bus Adm/Econ minor, or □; lect 6:00-8:20 M; SBE 16; lab 90 (241760) 5:00-5:50 M; SBE 45; lab 93 (TBA) 8:30-9:20 M; SBE 45; Baxter, E; \$243.00 and \$60.00 computer access fee) [A] Overview of organizational information systems and their computer hardware and software components. Some mainframe but primarily microcomputer data and information processing. Use of spreadsheet, data base, and other commonly used business software to complete business tasks. Limited to 30 students each section.

FMIS 3301. OPERATIONS MANAGEMENT I. (4 cr, prereq SBE candidate, Geol (mining) major, Acct/Bus Adm minor with 90 cr, or □; sec 90 (914481) 5:00-8:20 Th; SBE 16; Person, H; \$258.00) [A] Introduction to processes and methods for managing operations function in manufacturing and service organizations. Emphasis on managerial processes of planning and controlling production process, production capacity, product quality, work force levels, productivity, and inventory. Computer-based analysis. Limited to 50 students.

FMIS 3611. CORPORATION FINANCE. (4 cr, prereq SBE candidate, Econ major, Acct/Bus Adm minor with 90 cr, or □; sec 90 (120061) 6:00-9:20 W; SBE 16; Wong, S; \$258.00) [A] Fundamental concepts of managerial finance, financial analysis, planning and control of investment decisions on short-term and long-term assets. Cost of capital and valuations, sources of short-term intermediate and long-term funds, integrated topics in managerial finance. Limited to 25 students.

Spring

FMIS 1201. INTRODUCTION TO BUSINESS INFORMATION SYSTEMS. (4 cr, §1202; prereq SBE student, Econ major, or Acct/Bus Adm/Econ minor, or □; lect 6:30-8:40 W; Engr 290; lab 90 (441997) 5:30-6:20 W; SBE 45; lab 93 (TBA) 8:50-9:40 W; SBE 45; Stevenson, D; \$243.00 and \$60.00 computer access fee) [A] Overview of organizational information systems and their computer hardware and software components. Some mainframe but primarily microcomputer data and information processing. Use of spreadsheet, data base, and other commonly used business software to complete business tasks. Limited to 30 students each section.

FMIS 3140. BUSINESS COMMUNICATIONS. (4 cr, prereq Comp 1120, SBE candidate, Econ major, Acct/Bus Adm/Econ minor with 90 cr or □; sec 90 (225381) 5:00-8:20 W; SBE 40; Zollar, M; \$258.00 and \$60.00 computer access fee) [A] Examination of foundations of communication, language of business, cultural environment of international business. Concentration on developing skills of communicating through letters, memorandums, and reports. Review of creation and distribution of written communications through electronic media. Limited to 27 students.

FMIS 3201. MANAGEMENT SCIENCE. (4 cr, §3203; prereq SBE candidate or Bus Adm minor with 90 cr or □; sec 90 (242035) 5:00-8:20 T; SBE 16; Brey, T; \$258.00 and \$60.00 computer access fee) [A] Introductory survey of the role of management science in supporting organizational decision making. Topics include management decision making within both deterministic and probabilistic environments and stress the role of interactive computer-based decision support systems in modern management. Limited to 25 students.

FMIS 3301. OPERATIONS MANAGEMENT I. (4 cr, prereq SBE candidate, Geol (mining) major, Acct/Bus Adm minor with 90 cr, or □; sec 90 (624311) 6:00-9:20 Th; SBE 16; Person, H; \$258.00) [A] Introduction to processes and methods for managing operations function in manufacturing and service organizations. Emphasis on managerial processes of planning and controlling production process, production capacity, product quality, work force levels, productivity, and inventory. Computer-based analysis. Limited to 50 students.

FMIS 3611. CORPORATION FINANCE. (4 cr, prereq SBE candidate, Econ major, Acct/Bus Adm minor with 90 cr, or □; sec 90 (130668) 6:00-9:20 W; SBE 16; Vaidya, R; \$258.00) [A] Fundamental concepts of managerial finance, financial analysis, planning and control of investment decisions on short-term and long-term assets. Cost of capital and valuations, sources of short-term intermediate and long-term funds, integrated topics in managerial finance. Limited to 25 students.

Fine Arts (FA)

Winter

FA 1400. TOPICS IN FINE ARTS: HISTORY OF AMERICAN ARCHITECTURE—1600 TO PRESENT. (3 cr, [may be repeated for a max of 12 cr]; sec 90 (141802) 6:00-8:30 W; Room TBA; Lane, M; \$182.25) [O]

Study of architecture from colonial period to the present with special emphasis on cultural, art historical, and social aspects. Limited to 20 students.

Spring

FA 1400. TOPICS IN FINE ARTS: PRINCIPLES OF INTERIOR DESIGN. (3 cr, [may be repeated for a max of 12 cr]; sec 90 (528903) 6:00-8:30 T; Room TBA; Lane, M; \$182.25) [O]

Application of design elements and principles to interior design problems. Limited to 20 students.

French (Fr)

Fall

Fr 1111. BEGINNING FRENCH I. (4 cr, §1101; sec 90 (111174) 6:00-7:40 MW; H 458; Audet, J; \$243.00) [A]

Grammar, reading, and conversation course for students with little or no previous study of French. Limited to 20 students.

Winter

Fr 1111. BEGINNING FRENCH I. (4 cr, §1101; sec 90 (042059) 6:00-7:45 MW; Room TBA; Kovacovic, M; \$243.00) [A]

Grammar, reading, and conversation course for students with little or no previous study of French. Limited to 20 students.

Spring

Fr 1112. BEGINNING FRENCH II. (4 cr, §1102; sec 90 (241919) 6:00-7:40 MW; Room TBA; Jenny, Y; \$243.00) [A]

Grammar, reading, and conversation course for students with little or no previous study of French. Limited to 20 students.

Geography (Geog)

Fall

Geog 1303. CULTURAL GEOGRAPHY. (4 cr, sec 90 (275472) 6:00-9:20 T; Cina 308; Kaups, M; \$243.00) [A]

Principles of human geography including a treatment of the world's livelihood patterns, population characteristics, and settlement types. Limited to 60 students.

Geog 3522. INTRODUCTORY CARTOGRAPHY. (5 cr, §3521; prereq 40 cr or #; sec 90 (175473) 6:00-9:20 M; Cina 328; Schroeder, K; \$322.50) [A]

Emphasis on thematic mapping; drafting and lettering techniques; compilation of data; symbolization and the conceptual planning, layout, design, and execution of maps. Limited to 15 students.

Winter

Geog 1201. WORLD REGIONS AS HUMAN HABITATS. (4 cr, sec 90 (341829) 6:00-9:30 T; Cina 308; Knopp, L; \$243.00) [A]
The geography of human groups in diverse physical settings. Description and analysis of favorable and less favorable habitats for human occupation including geographic analysis of selected regions and countries. Limited to 60 students.

Geog 3553. MAPS AND MAP INTERPRETATION. (3 cr, \$3552; prereq 40 cr or #; sec 90 (020207) 6:00-8:40 W; Cina 316; Levine, G; \$193.50) [A]

The use of maps as data sources and orientation aids for technical and personal purposes. Course will cover a variety of maps, map sources, types of map data, and orientation aids including, at least, topographic maps and compasses. Limited to 30 students.

Geog 3741. GEOGRAPHY OF THE MIDDLE EAST AND NORTH AFRICA. (3 cr, prereq 40 cr including 8 cr in geography or #; sec 90 (116505) 6:00-8:40 T; Cina 316; Flaherty, M; \$193.50) [A]

Geographic study of one of the world's most strategic regions. Emphasis on the continuing geopolitical significance of this region supported by examination of relevant physical and cultural themes, including the role of oil and the Arab-Israeli dispute in the political geography of the Middle East. Limited to 15 students.

Spring

Geog 1303. CULTURAL GEOGRAPHY. (4 cr, sec 90 (924105) 6:00-9:20 M; Cina 308; Kaups, M; \$258.00) [A]

Principles of human geography including a treatment of the world's livelihood patterns, population characteristics, and settlement types. Limited to 60 students.

Geog 3701. GEOGRAPHY OF UNITED STATES AND CANADA. (4 cr, prereq 40 cr including 8 cr in geography or #; sec 90 (141931) 6:00-9:20 W; Cina 316; Knopp, L; \$258.00) [A]

Topical and regional presentation of physical and human geographic patterns of the United States and Canada. Limited to 30 students.

Geog 3706. GEOGRAPHY OF MINNESOTA. (3 cr, \$3111; prereq 40 cr including 8 cr in geography or #; sec 90 (227745) 6:00-8:40 T; Cina 316; Levine, G; \$193.50) [A]

Physical survey followed by study of human activities. Limited to 30 students.

Geog 5562. INTERACTIVE COMPUTER CARTOGRAPHY/GEOGRAPHIC INFORMATION SYSTEMS. (3 cr, \$5561; prereq 3541 or CS 1501, 40 cr, or #; concurrent regis in 5563 recommended; sec 90 (341930) 6:00-8:40 M; Cina 316; Schroeder, K; \$193.50) [A]

Computer mapping and spatial data handling in interactive computer mode. Interactive/batch geographic information-mapping systems. System design, spatial data handling management, and manipulation for large geographic information-mapping systems. Limited to 30 students.

Geog 5563. LABORATORY IN GEOGRAPHIC INFORMATION SYSTEMS. (4 cr, prereq 3541 or CS 1501, 40 cr, or #; concurrent regis in 5562 recommended; sec 90 (443491) 6:00-9:20 T; SBE 45; Staff; \$258.00 and \$60.00 computer access fee) [O]

Practical application of Geographic Information System (GIS) computer programs to earth science problems; data gathering and coding; spatial analysis; class projects. Limited to 25 students.

German (Ger)

Fall

Ger 1001. SPEAKING GERMAN. (4 cr, §1101, §1111; sec 90 (975488) 6:00-7:40 MW; H 464; Conant, J; \$243.00) [A]
Audio-lingual, nongrammatical course in conversational German for students with no or very little previous knowledge of German. Limited to 20 students.

Winter

Ger 1111. BEGINNING GERMAN I. (4 cr, §1001, §1101; sec 90 (342060) 6:00-7:45 MW; Room TBA; O'Brien, M; \$243.00) [A]
Grammar, reading, and conversation course for students with little or no previous study of German. Limited to 20 students.

Spring

Ger 1112. BEGINNING GERMAN II. (4 cr, §1102; prereq successful completion of 1111 or equivalent or #; sec 90 (091496) 6:00-7:40 MW; Room TBA; Viksna, H; \$243.00) [A]
Grammar and conversation course for students with little or no previous study of German. Limited to 20 students.

Health (Hlth)

Fall

Hlth 1000. DEVELOPING WELLNESS. (3 cr, sec 90 (807233) 6:00-8:30 T; SpHC 210; Haynes, D; \$182.25) [O]
Development of wellness lifestyle. Assessment of present health behaviors and risk factor. Overview of outside factors that influence wellness. Limited to 25 students.

Hlth 1610. EMERGENCY FIRST RESPONSE. (3 cr, §1601; sec 90 (875502) 6:00-8:30 W; SpHC 21; Lundstrom, E; \$182.25) [A]
Basic skills and knowledge to respond correctly in first aid emergencies. Leads to American Red Cross Certification. Limited to 25 students.

Hlth 1700. ADVANCED FIRST AID. (3 cr, sec 90 (808284) 6:00-8:30 T; SpHC 21; Fleissner, B; \$182.25) [O]
Principles of advanced first aid and accident prevention in the home and community; leads to the American Red Cross Advanced First Aid Certificate. Limited to 20 students.

Hlth 1800. EMERGENCY MEDICAL CARE I. (4 cr, prereq #; sec 90 (610876) 6:00-8:30 Th; SpHC 21; Anderson, P.; \$243.00) [O]
First of two courses in techniques of basic emergency medical service care. Includes emergency vehicle equipment, general operation, and record keeping; legal considerations concerning the EMT; airway obstruction and management; cardiac arrest and cardiopulmonary resuscitation; use of mechanical aids for respiratory and cardiac resuscitation; patient examination, vital signs, triage; shock and control of bleeding; soft tissue injuries. Limited to 18 students.

Hlth 3115. CONSUMER HEALTH EDUCATION. (3 cr, sec 90 (010728) 6:00-8:30 M; SpHC 207; Ringer, J; \$193.50) [O]
Overview of concepts of marketing, analysis, selection, and decision making regarding health care, products, services, and providers. Limited to 25 students.

Hlth 3118. WOMEN'S HEALTH ISSUES. (3 cr, sec 90 (311939) 6:00-8:30 Th; SpHC 208; MacLeod, C; \$193.50) [O]

Survey of various health issues as they relate to American women. Analysis of roles of women as patients and as health care providers. Language, politics, and economics of women's health care. Limited to 25 students.

Hlth 3202. DRUG EDUCATION. (2 cr, §Educ 3202; prereq 1000 or 1601, 90 cr, admission to EIED or EdSe program, or #; sec 90 (207558) 6:00-7:40 T; SpHC 207; Mold, P; \$129.00) [A]

Physiological and psychological effects of various drugs upon human systems. Investigation of reasons and pressures for drug use by students. Appraisal and assessment of school's role in education, prevention, intervention, and treatment of drug abuse. Limited to 30 students.

Winter

Hlth 1000. DEVELOPING WELLNESS. (3 cr, sec 90 (018182) 6:00-8:30 M; SpHC 9; Haynes, D; \$182.25) [O]

Development of wellness lifestyle. Assessment of present health behaviors and risk factor. Overview of outside factors that influence wellness. Limited to 40 students.

Hlth 1610. EMERGENCY FIRST RESPONSE. (3 cr, §1601; sec 90 (341880) 6:00-8:30 Th; SpHC 21; Nierengarten, M; \$182.25) [A]

Basic skills and knowledge to respond correctly in first aid emergencies. Leads to American Red Cross Certification. Limited to 20 students.

Hlth 1700. ADVANCED FIRST AID. (3 cr, sec 90 (319880) 6:00-8:30 T; SpHC 21; Fleissner, E; \$182.25) [O]

Principles of advanced first aid and accident prevention in the home and community; leads to the American Red Cross Advanced First Aid Certificate. Limited to 20 students.

Hlth 1801. EMERGENCY MEDICAL CARE II. (4 cr, prereq 1800 or #; sec 90 (421779) 6:00-9:40 M; SpHC 21; Anderson, P; \$243.00) [O]

Continuation of Emergency Medical Care I includes wound management; injuries to the musculoskeletal system; head, neck, and spine injuries; injuries to eye, chest, abdomen, and genitalia; medical/environmental injuries; emergency childbirth, lifting and moving patients; extrication. Courses 1800, 1801, and 1805, along with successful completion of a written and practical test administered by the Minnesota Department of Health, satisfy Minnesota's requirement for certification as an 81-hour emergency medical technician. Limited to 18 students.

Hlth 3202. DRUG EDUCATION. (2 cr, §Educ 3202; prereq 1000 or 1601, 90 cr, admission to EIED or EdSe program, or #; sec 90 (015041) 6:00-7:40 T; SpHC 207; Mold, M; \$129.00) [A]

Physiological and psychological effects of various drugs upon human systems. Investigation of reasons and pressures for drug use by students. Appraisal and assessment of school's role in education, prevention, intervention, and treatment of drug abuse. Limited to 30 students.

Spring

Hlth 1000. DEVELOPING WELLNESS. (3 cr, sec 90 (925111) 6:00-8:30 T; SpHC 207; Haynes, D; \$182.25) [O]

Development of wellness lifestyle. Assessment of present health behaviors and risk factor. Overview of outside factors that influence wellness. Limited to 15 students.

Hlth 1610. EMERGENCY FIRST RESPONSE. (3 cr, §1601; sec 90 (341958) 6:00-8:30 T; SpHC 21; Fleissner, E; \$182.25) [A]

Basic skills and knowledge to respond correctly in first aid emergencies. Leads to American Red Cross Certification. Limited to 20 students.

Hlth 1700. ADVANCED FIRST AID. (3 cr, sec 90 (128217) 6:00-8:30 M; SpHC 21; Fleissner, E; \$182.25) [O]

Principles of advanced first aid and accident prevention in the home and community; leads to the American Red Cross Advanced First Aid Certificate. Limited to 20 students.

Hlth 1805. EMERGENCY CARE PRACTICUM. (2 cr, prereq 1801 or #; sec 90 (230807) 6:00-8:30 W; SpHC 21; Anderson, P; \$121.50 and \$10.75 materials fee) [O]

Experience of 25-30 hours spent between the emergency room of a local hospital and an ambulance service. Adequate performance in 1800, 1801, and 1805 completes the emergency care EMT sequence and makes the student eligible for the state EMT test administered by the Minnesota Department of Health. Limited to 18 students.

Hlth 3202. DRUG EDUCATION. (2 cr, §Educ 3202; prereq 1000 or 1601, 90 cr, admission to EIED or EdSe program, or #; sec 90 (728768) 6:00-7:40 T; SpHC 212; Mold, M; \$129.00) [A]

Physiological and psychological effects of various drugs upon human systems. Investigation of reasons and pressures for drug use by students. Appraisal and assessment of school's role in education, prevention, intervention, and treatment of drug abuse. Limited to 30 students.

Hlth 5340. TEACHING DEATH EDUCATION. (3 cr, sec 90 (223968) 6:00-8:30 T; SpHC 210; Wolfe, B; \$193.50) [O]

Examination of materials and methods for teaching death education; review of research and current literature regarding content; exploration of death, dying, grief, and bereavement as they relate to teaching. Limited to 25 students.

Health, Physical Education and Recreation (HPER)

Fall

HPER 5100. MICROCOMPUTER APPLICATIONS IN HPER. (3 cr, prereq #; sec 90 (675498) 6:00-8:30 W; MonH 239; Keener, J; \$193.50) [O]

Opportunity for HPER professionals to receive training in use of microcomputers for professional enhancement and computer-assisted instruction. Limited to 15 students.

History (Hist)

Fall

Hist 1207. DAWN OF MODERN EUROPE. (4 cr, §1204; sec 90 (402567) 6:00-9:40 Th; ABAH 245; Miller, W.; \$243.00) [A]

Early history of the modern era: Renaissance, Reformation, Age of Reason, French Revolution and its impact, the Napoleonic imperium. Limited to 60 students.

Hist 1305. AMERICAN CHALLENGES. (4 cr, §1303; sec 90 (475504) 6:00-9:40 T; ABAH 225; Burnham, A; \$243.00) [A]

Historical roots of the major challenges facing Americans today: global responsibility as a world power, the quest for political, economic, and social justice, and community and family changes in modern society. Limited to 60 students.

Hist 3328. UNITED STATES AT WAR: 20TH CENTURY. (4 cr, §3327; sec 90 (703367) 6:00-9:40 T; ABAH 235; Burnham, A; \$258.00) [A]

American participation in war from the Spanish-American War to the present. Impact of war on the nation. Heaviest emphasis on World Wars I and II. Limited to 60 students.

Hist 3357. WOMEN IN AMERICAN HISTORY. (4 cr, sec 90 (609369) 6:00-9:40 W; ABAH 225; Trolander, J; \$258.00) [A]

The role of women in American society from the colonial period to the present. Contributions of outstanding women. Limited to 60 students.

Hist 3460. FAR EAST. (4 cr, sec 90 (108324) 6:00-9:40 M; ABAH 225; Morris, R; \$258.00) [A]

The response of China and Japan to the pressures of the Western world in the modern era. Limited to 60 students.

Winter

Hist 1208. EUROPE IN THE MODERN AGE. (4 cr; §1206; sec 90 (141881) 6:00-9:40 Th; Room TBA; Miller, W; \$243.00) [A]

Making of the present era through analysis of economic and technological revolution, collision of ideologies, imperialist expansion, revolutions, and wars. Limited to 60 students.

Hist 1304. AMERICAN HERITAGE. (4 cr, §1303; sec 90 (113532) 6:00-9:40 T; VKH 221; Burnham, A; \$243.00) [A]

Evolution of the United States from colonial origins into a modern nation; emphasis on frontier and agrarian heritage, constitutional development, emergence of our modern political system, expansion of democracy and cultural diversity. Limited to 60 students.

Hist 3005. SPECIAL TOPICS: WORLD WAR II IN FILM. (4 cr, sec 90 (214199) 6:00-9:40 W; ABAH 235; Burnham, A; \$258.00) [A]

A study of how World War II has been presented to the public through films, the changing perceptions of the war as contained in the various films, and the evolution of the genre. Limited to 30 students.

Spring

Hist 1304. AMERICAN HERITAGE. (4 cr, §1303; sec 90 (732206) 6:00-9:40 M; ABAH 225; Burnham, A; \$243.00) [A]

Evolution of the United States from colonial origins into a modern nation; emphasis on frontier and agrarian heritage, constitutional development, emergence of our modern political system, expansion of democracy and cultural diversity. Limited to 60 students.

Hist 3005. SPECIAL TOPICS: HISTORY OF VIETNAM WAR. (4 cr, sec 90 (930194) 6:00-9:40 W; Cina 308; Burnham, A; \$258.00) [A]

Basic history of Vietnam War beginning with French colonial period, proceeding through American diplomatic and military involvement, and finally the end of the war. Limited to 60 students.

Hist 3361. THE AMERICAN CITY. (4 cr, sec 90 (127379) 6:00-9:40 W; ABAH 245; Trolander, J; \$258.00) [A]

American urbanization from the colonial town to the modern metropolis, stressing social and cultural problems peculiar to cities, and the impact of the city on American civilization. Limited to 60 students.

Hist 3459. FAR EAST. (4 cr, sec 90 (033314) 6:00-9:40 M; ABAH 225; Morris, R; \$258.00) [A]

Primarily China and Japan from earliest times to 1800. Limited to 60 students.

Humanities and Classics (HmCI)

Fall

HmCI 1001. THE CLASSICAL HERITAGE OF GREECE AND ROME. (4 cr, §Hist 1001, §Hum 1001, §IS 1004; sec 90 (711663) 6:00-9:20 W; ABAH 235; Marchese, R; \$243.00) [A]

Introduction to the ancient Greek and Roman world through readings, lecture, and visual work. Discussion of historical and cultural contexts involved. Includes characteristics of the idea of "Classicism" which the Renaissance discovered and promoted. Limited to 20 students.

HmCI 3003. SPECIAL TOPICS IN POPULAR CULTURE: THE EVOLUTION OF RUSSIA AND THE SOVIET UNION THROUGH PHOTOGRAPHY. (3 cr, [may be repeated for a max of 9 cr]; §Hum 3003; sec 90 (177790) 6:00-8:40 T; VKH 221; Korpuseenko, N; \$193.50) [A]

Examination, through photography, of the evolution of Russia and the Soviet Union from the early 20th century to the present. Limited to 30 students.

HmCI 3020. THE AGE OF THE HEROES: HOMER AND HIS WORLD. (4 cr; §Hum 3020; sec 90 (277710) 6:00-9:30 T; ABAH 235; Marchese, R; \$258.00) [A]

Organization and development of the Greek world from the fourth millennium B.C. to 700 B.C. Descriptive study of the Minoan and Mycenaean worlds emphasizing a critical evaluation of the archaeological, mythological, and artistic significance of Homer. Limited to 30 students.

HmCI 3038. FROM FICTION TO FILM. (4 cr, §Hum 3038, §Engl 3590, §Engl 3593; sec 90 (006646) 6:00-8:30 W; H 468; Maiolo, J; \$258.00) [A]

Reading of novels and viewing of films adapted from original works. Limited to 30 students.

Winter

HmCI 3030. THE ROMAN REPUBLIC. (4 cr; §Hist 1056, §Hist 3030; sec 90 (044216) 6:00-9:30 W; ABAH 235; Miller, W; \$258.00) [A]

Study of Republican Rome from origins through collapse in 44 B.C., with emphasis on cultural and political attributes, leading figures, and causes of its demise. Limited to 30 students.

HmCI 3035. THE MUSIC AND LIVES OF THE BEATLES. (3 cr, §Hum 3035; prereq 30 cr or #; sec 90 (142061) 6:00-8:30 W; H 458; Gallian, J; \$193.50) [A]

Examination of impact on our culture of music and lives of Beatles. Their music, influence on music, fashion, and attitudes; Beatles movies; interrelationship with political and social movement; later careers; their legacy. Limited to 28 students.

Spring

HmCI 3040. THE ROMAN EMPIRE. (4 cr, §Hist 3040, §Hist 3056; sec 90 (144215) 6:00-9:20 W; ABAH 235; Miller, W; \$258.00) [A]

Study of Imperial Rome from Age of the Caesars through 550 A.D., with emphasis on politics of pax Romana, rise and spread of Christianity, and Roman legacy to the modern world. Limited to 60 students.

HmCI 3150. ANCIENT EGYPTIAN CULTURE. (4 cr; §Hum 1025; sec 90 (144327) 6:00-9:20 T; Room TBA; Miller, W; \$258.00) [A]

Study of the history, culture, and arts of ancient Egypt as it is known through the archaeological record.

HmCI 3220. SCIENCE FICTION. (4 cr, §Hum 1421; sec 90 (344214) 6:00-9:30 W; H 403; Driscoll, D; \$258.00) [A]

Study of selected science fiction short stories, novels, films, videos, and music that explore the impact of the physical, biological, and social sciences in producing changing views of human nature, values, institutions, and societies. Limited to 30 students.

HmCI 5210. ARCHITECTURE AND HUMAN VALUES. (4 cr; sec 90 (244237) 6:00-9:20 Th; Room TBA; Schoreder, F; \$258.00) [A] Languages of world architecture; how the built environment communicates values of different societies, institutions, and persons of the past and present. Limited to 35 students.

Industrial and Technical Studies (Ind)

Fall

Ind 1330. BASIC AERONAUTICS. (3 cr, sec 90 (610358) 6:00-10:00 T; VKH 17; Coffin, L; \$182.25) [O]

Basic aviation with aircraft industry application; private pilot-ground school preparation with flight simulator time. Limited to 16 students.

Ind 3950. SAFETY EDUCATION. (4 cr, sec 90 (475518) 6:00-8:00 MW; VKH 221; Lund, R; \$258.00) [O]

A comprehensive approach to the problems of safety in the schools, homes, community, and occupational world; including attitude development, problem solving, and liability. Limited to 60 students.

Ind 5953. CONFERENCE LEADING TECHNIQUES. (3 cr, prereq #: sec 90 (508246) 6:00-8:40 M; VKH 115; DeRubeis, B; \$193.50) [P]

Purposes, advantages, and limitations of conference method; instruction in techniques of conference; experience in planning, leading, and evaluating conferences and in writing summaries. Limited to 20 students.

Spring

Ind 1336. FLIGHT SIMULATOR I. (3 cr, prereq #: sec 90 (024449) 6:00-10:00 T; VKH 17; Coffin, L; \$182.25) [O]

Basic and advanced instruction in instrument trainer interpretation and programming. Flight time applicable to the commercial or instrument pilot rating. Limited to 15 students.

Ind 5928. PHILOSOPHY AND PRACTICES OF VOCATIONAL EDUCATION. (3 cr, sec 90 (441689) 6:00-8:30 M; VKH 115; DeRubeis, B; \$193.50) [O]

Development and characteristics of vocational education; social and economic significance; the organizational structure of vocational education at the secondary and postsecondary levels; state and federal aid; teacher preparation. Limited to 40 students.

International Studies (IntS)

Winter

IntS 1017. INTRODUCTION TO THE SOVIET UNION. (4 cr, sec 90 (022281) 6:00-9:30 T; H 484; Pogorelskin, A; \$243.00) [A]

Survey of basic elements of Soviet life; environmental setting and peoples; Marxist ideology; background to 1917 revolution; development of Soviet society and its politics; economic conditions; literature and cultural life; foreign policy and role in international communism. Limited to 22 students.

IntS 1066. AN INTRODUCTION TO BRITAIN. (4 cr, sec 90 (042062) 6:00-9:30 Th; Room TBA; Staff; \$243.00) [A]

Interdisciplinary survey of British Isles, including examination of major geographic, historical, social, and cultural features of region. Limited to 30 students.

Spring

IntS 1066. AN INTRODUCTION TO BRITAIN. (4 cr, sec 90 (142058) 6:00-9:30 M; Room TBA; Staff; \$243.00) [A]

Interdisciplinary survey of British Isles, including examination of major geographic, historical, social, and cultural features of region. Limited to 30 students.

Journalism (Jour)

Fall

Jour 3115. TELEVISION-RADIO NEWS WRITING. (3 cr, \$3122; prereq 3100 or 3105 or #; sec 90 (175537) 6:00-8:40 T; H 470; Staff; \$193.50 and \$60.00 computer access fee) [A]

Techniques of writing news for television and radio. Limited to 25 students.

Winter

Jour 3120. PUBLIC AFFAIRS REPORTING. (3 cr, \$3145, \$3203; prereq 3100 or 3105; sec 90 (141906) 6:00-8:40 T; ABAH 435; Staff; \$193.50) [A]

Reporting and editing news of courts and municipal and county agencies. Limited to 40 students.

Jour 3125. PUBLIC RELATIONS. (3 cr, \$3120; prereq 3100; sec 90 (417036) 6:00-8:40 W; ABAH 235; Greenfield, S; \$193.50) [A]

Historical development of public relations principles and practices, and practical application of those principles. Critique of public relations in society. Limited to 40 students.

Spring

Jour 3100. REPORTING. (3 cr, \$3105; prereq Engl 1110 and typing skill of 30 wpm; sec 90 (329924) 6:00-8:40 W; H 470; Martz, H; \$193.50 and \$60.00 computer access fee) [A]

Fact gathering and journalistic writing. Problems of judgment in handling news. Students use word-processing capabilities of microcomputers during laboratory exercises in journalistic writing. Limited to 25 students.

Jour 3110. PUBLICATIONS EDITING. (3 cr, \$3102; prereq 3145 or 3203; sec 90 (327879) 6:00-8:40 M; H 470; Kragness, L; \$193.50) [A]

Lectures and laboratory in selection and editing of news-editorial content of newspapers and magazines. Newspaper makeup; magazine format. Limited to 25 students.

Jour 3140. ADVANCED REPORTING. (3 cr, \$3202; prereq 3145 or 3203; sec 90 (524527) 6:00-8:40 T; ABAH 435; Staff; \$193.50) [A]

Advanced problems in material gathering and specialized reporting. Limited to 30 students.

Language (Lang)

Fall

Lang 3801. TEACHING NONNATIVE LANGUAGE. (4 cr, prereq 24 cr of a foreign language or #; sec 90 (705362) 4:00-5:45 TTh; H 468; O'Brien, G.; \$258.00) [A]

The theory and practice of teaching basic nonnative language skills and cultural concepts at any educational level. Applicable also to teachers of English as a foreign language. Limited to 20 students.

Management Studies (MgtS)

Fall

MgtS 3304. ORGANIZATIONAL MANAGEMENT. (4 cr, prereq SBE candidate, Geol major with mining option, URS-Public Policy and Adm/Ind Tech major, Acct/Bus Adm minor with 90 cr, or □; sec 90 (975989) 6:00-9:20 T; SBE 16; Pierce, J; \$258.00) [A]

Management as process common to all types of organizations. Theory and process associated with organizational planning, behavior, design, decision making, and organizational control systems. Introduction to philosophical and behavioral differences related to practice of management. Limited to 54 students.

MgtS 3761. MARKETING MANAGEMENT AND STRATEGY. (4 cr, prereq 3701, SBE candidate, Acct/Bus Adm minor with 90 cr, or □; sec 90 (175996) 4:00-5:40 TTh; SBE 50; Sielaff, R; \$258.00) [A] Planning, direction, and control of marketing activity of organization, including formulation of marketing objectives, policies, programs, and strategy. Limited to 30 students.

MgtS 3804. HUMAN RESOURCE MANAGEMENT. (4 cr, prereq SBE candidate or ECh/Econ/Geol with mining option/URS-Public Policy and Adm majors, Acct/Bus Adm/Econ minor with 90 cr, or □; sec 90 (076003) 6:00-9:20 W; SBE 16; Lilyquist, J; \$258.00) [A] Introduction to theory and practice of human resource management in private and public organizations. Organizational, legal, and ethical influences on major personnel functions, including planning, staffing, training, performance appraisal, compensation, and labor-management relations. Limited to 54 students.

Winter

MgtS 3741. SALES MANAGEMENT. (4 cr, prereq 3701, SBE candidate, Acct/Bus Adm minor with 90 cr, or □; sec 90 (341913) 4:00-5:40 TTh; SBE 50; Sielaff, R; \$258.00) [A]

Determination of sales policies and organization; selection, training, and compensation of sales personnel; control of sales performance and budgets in industrial, wholesale, and business service organizations. Behavioral approaches to selling and sales organizations. Limited to 30 students.

MgtS 3804. HUMAN RESOURCE MANAGEMENT. (4 cr, prereq SBE candidate or ECh/Econ/Geol with mining option/URS-Public Policy and Adm majors, Acct/Bus Adm/Econ minor with 90 cr, or □; sec 90 (620551) 6:00-9:20 T; SBE 16; Laumeyer, J; \$258.00) [A]

Introduction to theory and practice of human resource management in private and public organizations. Organizational, legal, and ethical influences on major personnel functions, including planning, staffing, training, performance appraisal, compensation, and labor-management relations. Limited to 48 students.

Spring

MgtS 3362. STRATEGIC MANAGEMENT. (4 cr, prereq 3304, 3701, 3804, FMIS 3140, FMIS 3203, FMIS 3301, FMIS 3611, 120 cr, SBE candidate, or □; sec 90 (228300) 6:00-9:20 M; SBE 50; App, D; \$258.00) [A]

Organizational processes and conceptual tools that enable firms to achieve competitive advantage in the market place. Integration of required courses in business administration, economics, and behavioral sciences through study of responsibilities and functions of top management. Promotes understanding of policy formulation and implementation. Limited to 28 students.

MgtS 3721. PRINCIPLES OF TRANSPORTATION. (4 cr, prereq 3701, SBE candidate, Acct/Bus Adm minor with 90 cr, or □; sec 90 (941955) 6:00-9:20 Th; SBE 40; Dorin, P; \$258.00) [A]

Significance of transportation systems in economy and firm's logistics system. Examination of historical forces and trends, major contemporary demand and supply influences, development of functional framework, survey of major emerging policies. Limited to 30 students.

MgtS 3761. MARKETING MANAGEMENT AND STRATEGY. (4 cr, prereq 3701, SBE candidate, Acct/Bus Adm minor with 90 cr, or □; sec 90 (033992) 4:00-5:40 MW; SBE 50; Sielaff, R; \$258.00) [A] Planning, direction, and control of marketing activity of organization, including formulation of marketing objectives, policies, programs, and strategy. Limited to 22 students.

MgtS 3851. HUMAN RESOURCE DEVELOPMENT. (4 cr, prereq 3804, SBE candidate, Acct/Bus Adm minor with 90 cr, or □; sec 90 (041980) 6:00-9:20 Th; SBE 50; Lilyquist, J; \$258.00) [A]

Design, implementation, and evaluation of training and development systems. Learning theory, needs analysis, behavioral objectives, training methods, audio-visual media, evaluation approaches. Limited to 30 students.

Manufacturing Technology (MT)

Fall

MT 1710. HOT FORMING PROCESSES. (4 cr, §Ind 1710, §Ind 3711; sec 90 (375558) 6:00-8:30 TTh; VKH 162,166; Voss, J; \$243.00) [A]

Principles and applications of casting, forging, welding, thermal treatment, and allied processes. Limited to 20 students.

Winter

MT 1720. COLD FORMING PROCESSES. (4 cr, §Ind 1703, §Ind 1721; sec 90 (941647) 6:00-8:30 TTh; VKH 162,166; Voss, J; \$243.00) [A]

Broad variety of material processing procedures with emphasis on shaping, forming, molding, joining, stamping, cutting, and finishing. Limited to 20 students.

MT 3940. INDUSTRIAL PRACTICES AND PROCESSES. (3 cr, §Ind 3951; prereq Ind Tech major, 90 cr, or #; sec 90 (941650) 6:00-8:30 M; Engr 290; DeRubeis, B; \$193.50) [A]

Survey and study of most phases of an industrial organization with particular emphasis on interrelationship of basic functions essential to efficient operation such as product development, time study, work simplification, production control, materials control, plant layout, and safety standards. Limited to 50 students.

Spring

MT 3910. ERGONOMICS. (3 cr, §Ind 3953; prereq Ind Tech major, 90 cr, or #; sec 90 (725112) 6:00-8:30 M; VKH 166; Voss, J; \$193.50) [A]

Relationship between humans, machines, and work environment. Human anatomy, physiology, and work psychology with respect to this environment. Heat, noise, vibration, air contaminants, and mental stresses. Limited to 30 students.

Mathematics and Statistics (Math)

Fall

Math 1001. ELEMENTARY ALGEBRA. (5 cr, [cr cannot be applied toward a degree], §1003, §1115, §1156, §1160, §1185, §1250 §1296, §1596 §1596H §CLEP cr in the General Exam; prereq SSP 1003 or SSP 1053 or Math Placement Exam or Δ ; sec 90 (206006) 6:00-8:05 MTh; HH 306; Staff; \$303.75) [A]

Stresses basic manipulative skills and problem-solving techniques. Number systems; equations and inequalities and their graphs. Exponents and polynomials; rational expressions; linear systems; roots and radicals; quadratic equations. Limited to 44 students.

Math 1003. INTERMEDIATE ALGEBRA. (5 cr, [cr cannot be applied toward a degree], §1115, §1160, §1185, §1250, §1296, §1596; §1596H; prereq 1001 or Math Placement Exam or Δ ; ; sec 90 (303369) 6:00-8:05 MTh; Chem 150; Staff; \$303.75) [A]

Function concept; inequalities; polynomial and rational functions; curve sketching; systems of two and three linear equations; matrices and determinants; selected topics from the theory of equations; logarithmic and exponential functions; sequences. Limited to 44 students.

Math 1156. FINITE MATHEMATICS. (4 cr, prereq 1003 or 1115 or math placement or Δ ; sec 90 (405548) 6:00-7:40 TTh; HH 314; Staff; \$243.00) [A]

Counting theorems, elementary probability, conditional probability, Bayes' theorem, matrices, determinants, graphical and algebraic methods for solving systems of linear equations and inequalities, and introduction to linear programming. Not recommended for students who plan to major in mathematics. Limited to 44 students.

Math 1160. CALCULUS, A SHORT COURSE. (4 cr, §1296; prereq 1003 or 1115 or Math Placement Exam or Δ ; sec 90 (403525) 6:00-7:40 MTh; HH 302; Staff; \$243.00) [A]

An abbreviated treatment of calculus designed for students that do not need fuller study given in sequence beginning with 1296. Stresses applications in business and in social sciences. Not suitable for many preprofessional programs or majors in mathematics. Limited to 44 students.

Math 1210. TRIGONOMETRY. (3 cr, §1185, §1250, §1297, §1597, §1597H; prereq 1003 or 1115 or math placement or Δ ; may be taken concurrently with 1003 or 1296 or 1596H; sec 90 (310306) 6:00-8:30 W; HH 302; Staff; \$182.25) [A]

Introduction to trigonometric functions and their inverses, identities, triangle trigonometry, and applications. Limited to 44 students.

Math 1296. CALCULUS I. (5 cr, §1596, §1596H; prereq 1250 or math placement or 3 1/2 yrs of high school mathematics including trigonometry, or Δ ; sec 90 (610487) 6:00-8:05 MTh; Chem 251; Staff; \$303.75) [A]

First part of standard introduction to calculus of functions of single variable. Limits, continuity, derivatives and their applications, indeterminate forms. Limited to 44 students.

Winter

Math 1001. ELEMENTARY ALGEBRA. (5 cr, [cr cannot be applied toward a degree], §1003, §1115, §1156, §1160, §1185, §1250 §1296, §1596 §1596H §CLEP cr in the General Exam; prereq SSP 1003 or SSP 1053 or Math Placement Exam or Δ ; sec 90 (618881) 6:00-8:10 MTh; Room TBA; Staff; \$303.75) [A]

Stresses basic manipulative skills and problem-solving techniques. Number systems; equations and inequalities and their graphs. Exponents and polynomials; rational expressions; linear systems; roots and radicals; quadratic equations. Limited to 44 students.

Math 1003. INTERMEDIATE ALGEBRA. (5 cr, [cr cannot be applied toward a degree], §1115, §1160, §1185, §1250, §1296, §1596; §1596H; prereq 1001 or Math Placement Exam or Δ ; ; sec 90 (115743) 6:00-8:10 MTh; Room TBA; Staff; \$303.75) [A]

Function concept; inequalities; polynomial and rational functions; curve sketching; systems of two and three linear equations; matrices and determinants; selected topics from the theory of equations; logarithmic and exponential functions; sequences. Limited to 44 students.

Math 1156. FINITE MATHEMATICS. (4 cr, prereq 1003 or 1115 or math placement or Δ ; sec 90 (023446) 6:00-7:45 MW; Room TBA; Staff; \$243.00) [A]

Counting theorems, elementary probability, conditional probability, Bayes' theorem, matrices, determinants, graphical and algebraic methods for solving systems of linear equations and inequalities, and introduction to linear programming. Not recommended for students who plan to major in mathematics. Limited to 44 students.

Math 1160. CALCULUS, A SHORT COURSE. (4 cr, §1296; prereq 1003 or 1115 or Math Placement Exam or Δ ; sec 90 (218110) 6:00-7:45 MTh; Room TBA; Staff; \$243.00) [A]

An abbreviated treatment of calculus designed for students that do not need fuller study given in sequence beginning with 1296. Stresses applications in business and in social sciences. Not suitable for many preprofessional programs or majors in mathematics. Limited to 44 students.

Math 1210. TRIGONOMETRY. (3 cr, §1185, §1250, §1297, §1597, §1597H; prereq 1003 or 1115 or math placement or Δ ; may be taken concurrently with 1003 or 1296 or 1596H; sec 90 (422897) 6:00-8:40 W; Room TBA; Staff; \$182.25) [A]

Introduction to trigonometric functions and their inverses, identities, triangle trigonometry, and applications. Limited to 44 students.

Math 1297. CALCULUS II. (5 cr, §1597; prereq 1296 or 1596; sec 90 (616449) 6:00-8:10 MTh; Room TBA; Staff; \$303.75) [A]

Second part of standard introduction to calculus of functions of single variable. Definite and indefinite integrals, techniques of integration, transcendental functions, exponentials and logarithms, applications to geometry and physics. Limited to 44 students.

Spring

Math 1001. ELEMENTARY ALGEBRA. (5 cr, [cr cannot be applied toward a degree], §1003, §1115, §1156, §1160, §1185, §1250 §1296, §1596 §1596H §CLEP cr in the General Exam; prereq SSP 1003 or SSP 1053 or Math Placement Exam or Δ ; sec 90 (424312) 6:00-8:05 MTh; Room TBA; Staff; \$303.75) [A]

Stresses basic manipulative skills and problem-solving techniques. Number systems; equations and inequalities and their graphs. Exponents and polynomials; rational expressions; linear systems; roots and radicals; quadratic equations. Limited to 44 students.

Math 1003. INTERMEDIATE ALGEBRA. (5 cr, [cr cannot be applied toward a degree], §1115, §1160, §1185, §1250, §1296, §1596; §1596H; prereq 1001 or Math Placement Exam or Δ ; ; sec 90 (627001) 6:00-8:05 MTh; Room TBA; Staff; \$303.75) [A]

Function concept; inequalities; polynomial and rational functions; curve sketching; systems of two and three linear equations; matrices and determinants; selected topics from the theory of equations; logarithmic and exponential functions; sequences. Limited to 44 students.

Math 1156. FINITE MATHEMATICS. (4 cr, prereq 1003 or 1115 or math placement or Δ ; sec 90 (431079) 6:00-7:40 MW; Room TBA; Staff; \$243.00) [A]

Counting theorems, elementary probability, conditional probability, Bayes' theorem, matrices, determinants, graphical and algebraic methods for solving systems of linear equations and inequalities, and introduction to linear programming. Not recommended for students who plan to major in mathematics. Limited to 44 students.

Math 1160. CALCULUS, A SHORT COURSE. (4 cr, §1296; prereq 1003 or 1115 or Math Placement Exam or Δ ; sec 90 (732853) 6:00-7:40 MTh; Room TBA; Staff; \$243.00) [A]

An abbreviated treatment of calculus designed for students that do not need fuller study given in sequence beginning with 1296. Stresses applications in business and in social sciences. Not suitable for many preprofessional programs or majors in mathematics. Limited to 44 students.

Math 1210. TRIGONOMETRY. (3 cr, §1185, §1250, §1297, §1597, §1597H; prereq 1003 or 1115 or math placement or Δ ; may be taken concurrently with 1003 or 1296 or 1596H; sec 90 (242049) 6:00-8:30 W; Room TBA; Staff; \$182.25) [A]

Introduction to trigonometric functions and their inverses, identities, triangle trigonometry, and applications. Limited to 44 students.

Math 1250. PRE-CALCULUS ANALYSIS. (5 cr, §1296, §1596, §1596H; prereq 1002 and 1003, or math placement, or 3 1/2 yrs high school math including trigonometry; sec 90 (842015) 6:00-8:05 MTh; Room TBA; Staff; \$303.75) [A]

Inequalities, analytical geometry; relations, functions, and graphs; exponential, logarithmic, and trigonometric functions; complex numbers and DeMoivre's Theorem; permutations, combinations, binomial theorem, and mathematical induction. Limited to 44 students.

Math 3298. CALCULUS III. (5 cr, §3598; prereq 1297 or 1597; sec 90 (526195) 6:00-8:05 MTh; Room TBA; Staff; \$322.50) [A]

Completion of study begun in Math 1296 and Math 1297. Analytic geometry, polar coordinates, sequences and series, Taylor's theorem, partial derivatives. Limited to 35 students.

Music (Mu)

Fall

Mu 1002. INTRODUCTION TO MUSIC. (4 cr, not for music major or minor unless specified by adviser, 3 hrs lect, 1 hr listening per wk; sec 90 (106984) 6:00-9:20 M; H 160; Williams, R; \$243.00) [O]

The layperson's listening process with various aesthetic, historical, and structural studies designed to develop understanding and enjoyment of music. Limited to 25 students.

Spring

Mu 1002. INTRODUCTION TO MUSIC. (4 cr, not for music major or minor unless specified by adviser, 3 hrs lect, 1 hr listening per wk; sec 90 (630058) 6:00-9:20 M; H 160; Williams, R; \$243.00) [O]

The layperson's listening process with various aesthetic, historical, and structural studies designed to develop understanding and enjoyment of music. Limited to 20 students.

Philosophy (Phil)

Fall

Phil 1001. PROBLEMS OF PHILOSOPHY. (4 cr, sec 90 (509400) 6:00-9:20 M; H 403; Peterson, T; \$243.00) [A]

Introduction to philosophy through examination of several classic philosophical problems such as the existence of God, nature of knowledge, free will vs. determinism, relation of mind and body, character of moral responsibility, organization of society, and adoption of a world view. Limited to 20 students.

Phil 1003. ETHICS AND SOCIETY. (4 cr, sec 90 (711291) 6:00-9:20 W; ABAH 245; Hudelson, R; \$243.00) [A]

Examination of classic theories addressing the questions of whether morality is subjective or objective and how we should determine what is right or wrong. Examination of particular moral issues such as euthanasia, abortion, nuclear deterrence, capital punishment. Limited to 20 students.

Phil 1008. CRITICAL THINKING. (4 cr, §1009; sec 90 (711467) 6:00-9:20 W; H 490; Franks, V; \$243.00) [A]

Examination of patterns of reasoning encountered in everyday life, including advertising, editorials, and politics. Use of language in formulating arguments; differences between deductive and inductive arguments; how to detect and avoid mistakes in reasoning. Limited to 20 students.

Phil 1018. LOGIC. (4 cr, §1009; sec 90 (301976) 6:00-9:20 T; H 468; Korby, N; \$243.00) [A]

Introduction to symbolic logic. Nature of language, species of arguments, informal vs. formal arguments, techniques of translation, methods of sentential logic, and methods of predicate logic. Limited to 20 students.

Winter

Phil 1001. PROBLEMS OF PHILOSOPHY. (4 cr, sec 90 (318986) 6:00-9:20 W; H 458; Hudelson, R; \$243.00) [A]

Introduction to philosophy through examination of several classic philosophical problems such as the existence of God, nature of knowledge, free will vs. determinism, relation of mind and body, character of moral responsibility, organization of society, and adoption of a world view. Limited to 20 students.

Phil 1008. CRITICAL THINKING. (4 cr, §1009; sec 90 (015184) 6:00-9:20 T; H 458; Korby, N; \$243.00) [A]

Examination of patterns of reasoning encountered in everyday life, including advertising, editorials, and politics. Use of language in formulating arguments; differences between deductive and inductive arguments; how to detect and avoid mistakes in reasoning. Limited to 20 students.

Phil 1018. LOGIC. (4 cr, §1009; sec 90 (520350) 6:00-9:20 M; H 458; Franks, V; \$243.00) [A]

Introduction to symbolic logic. Nature of language, species of arguments, informal vs. formal arguments, techniques of translation, methods of sentential logic, and methods of predicate logic. Limited to 20 students.

Phil 3242. VALUES AND TECHNOLOGY. (4 cr, sec 90 (841821) 6:00-9:20 M; H 484; Peterson, T; \$258.00) [A]

Examination of philosophical problems related to science and technology. Differences between pure science, applied science, and technology. Moral issues concerning practice and impact of science and engineering, such as those created by use of computers. Limited to 40 students.

Spring

Phil 1001. PROBLEMS OF PHILOSOPHY. (4 cr, sec 90 (728012) 6:00-9:20 W; H 484; Hudelson, R; \$243.00) [A]

Introduction to philosophy through examination of several classic philosophical problems such as the existence of God, nature of knowledge, free will vs. determinism, relation of mind and body, character of moral responsibility, organization of society, and adoption of a world view. Limited to 35 students.

Phil 1008. CRITICAL THINKING. (4 cr, §1009; sec 90 (041462) 6:00-9:20 W; H 458; Franks, V; \$243.00) [A]

Examination of patterns of reasoning encountered in everyday life, including advertising, editorials, and politics. Use of language in formulating arguments; differences between deductive and inductive arguments; how to detect and avoid mistakes in reasoning. Limited to 35 students.

Phil 1018. LOGIC. (4 cr, §1009; sec 90 (331821) 6:00-9:20 T; H 484; Korby, N; \$243.00) [A]

Introduction to symbolic logic. Nature of language, species of arguments, informal vs. formal arguments, techniques of translation, methods of sentential logic, and methods of predicate logic. Limited to 35 students.

Phil 3118. SELECTED TOPICS: ENVIRONMENTAL ETHICS. (3 cr, [may be repeated for a max of 9 cr]; prereq 1001 or #; sec 90 (141467) 6:00-8:20 M; H 484, 490; Peterson, T; \$193.50) [A]

Examines the moral dimension of the relationship between humans and the earth's natural environment. Includes pollution, energy policy, economics, law, and environment; endangered species; rights of nonhumans; preservation and conservation; obligations toward future generations; ethical theory and environment. Limited to 35 students.

Phil 5570. PHILOSOPHY OF PSYCHOLOGY. (4 cr; prereq Phil 1001 or Psy 1003, 90 cr; sec 90 (744212) 6:00-9:20 T; Room TBA; Fetzer, J; \$258.00) [A]

Current philosophical issues surrounding psychology: behaviorism, dualism and mind/brain identity theories, computer models of cognition, and functionalism. Limited to 35 students.

Physical Education (PE)

Fall

PE 1300. BALLROOM DANCE. (1 cr, sec 90 (602129) 6:00-7:40 M; SpHC 135; Murray, V; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 24 students.

PE 1302. FOLK DANCE. (1 cr, sec 90 (104144) 6:00-7:40 W; SpHC 135; Murray, V; \$60.75 and \$4 materials fee) [O]

Liberal education physical education course. Limited to 24 students.

PE 1507. FLATWATER KAYAKING. (1 cr, sec 90 (810729) 6:00-8:00 W; SpHC 20; Gilbertson, K; \$60.75 and \$20.00 materials fee) [O]

Flatwater kayaking techniques. Includes history, safety, kayak design, basic braces, paddle strokes, and maneuvering in flatwater conditions. Limited to 12 students.

PE 1620. AIKIDO. (1 cr, sec 90 (976883) 7:00-8:30 MW; SpHC 145; Gulbrandsen, F; \$60.75) [O]

Liberal education physical education class introducing the movement, theory, and practice of the defensive martial art Aikido. Limited to 30 students.

PE 1804. OFFICIATING VOLLEYBALL. (1 cr, sec 90 (776755) 8:00-9:40 M; SpHC 208; Rolf, P; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 30 students.

PE 1806. OFFICIATING ICE HOCKEY, SKIING. (1 cr, sec 90 (105911) 8:00-9:40 W; SpHC 210; Knapp, J; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 25 students.

PE 3126. ELEMENTARY SCHOOL PHYSICAL EDUCATION. (4 cr, §1326; prereq admission to EEd program or Δ ; sec 90 (606634) 6:00-9:30 T; SpHC 9; Nierengarten, M; \$258.00) [O]

Developing elementary school physical education program for elementary school classroom teacher, with emphasis on planning appropriate curriculum guide and teaching developmental movement experiences. Limited to 25 students.

Winter

PE 1300. BALLROOM DANCE. (1 cr, sec 90 (820869) 6:00-7:50 MW; special term December 3-January 9; SpHC 135; Murray, V; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students.

PE 1312. SQUARE DANCE. (1 cr, sec 90 (441871) 8:00-9:50 MW; SpHC 135; Murray, V; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students.

PE 1402. TENNIS. (1 cr, sec 90 (913556) 6:00-7:50 Th; FH; Malosky, J; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students.

PE 1500. CROSS-COUNTRY SKIING. (1 cr, sec 90 (315862) 9:00-10:00 a.m. S; SpHC 208; Gilbertson, K; \$60.75 and \$20.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students.

PE 1502. ALPINE SKIING. (1 cr, sec 90 (418882) 6:00-9:00 T special term Jan 7-Feb 11; Spirit Mtn; Roth, N; sec 91 (423371) 6:00-9:00 W special term Jan 8-Feb 12; Spirit Mtn; Roth, N; sec 92 (821200) 6:00-9:00 Th special term Jan 9-Feb 13; Spirit Mtn; Roth, N; \$60.75 and \$50.00 materials fee) [O]

Liberal education physical education course. Limited to 40 students each section.

PE 1507. FLATWATER KAYAKING. (1 cr, sec 90 (818331) 4:00-6:00 T; SpHC 20; Gilbertson, K; \$60.75 and \$20.00 materials fee) [O]

Flatwater kayaking techniques. Includes history, safety, kayak design, basic braces, paddle strokes, and maneuvering in flatwater conditions. Limited to 12 students.

PE 1520. ALPINE SKI INSTRUCTOR'S COURSE.** (2 cr, sec 90 (123518) 6:00-9:00 ThF special term Jan 9-10, 16-17, 23-24; Spirit Mtn; Roth, N; \$121.50 and \$50.00 materials fee) [O]

Liberal education physical education course. Limited to 35 students.

PE 1612. KARATE. (1 cr, sec 90 (123227) 6:00-7:00 TTh; SpHC 150; Sullivan, T; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 30 students.

Spring

PE 1300. BALLROOM DANCE. (1 cr, sec 90 (726793) 6:00-7:50 M; SpHC 135; Murray, V; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students.

PE 1312. SQUARE DANCE. (1 cr, sec 90 (129181) 8:00-9:50 M; SpHC 135; Murray, V; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students.

PE 1402. TENNIS. (1 cr, sec 90 (130945) 6:00-7:50 M; FH; Malosky, J; sec 91 (028405) 8:00-9:50 M; FH; Malosky, J; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students each section.

PE 1410. GOLF. (1 cr, sec 90 (533650) 6:00-7:50 Th; FH; Malosky, J; sec 91 (130470) 8:00-9:50 Th; FH; Malosky, J; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 20 students each section.

PE 1510. WHITEWATER KAYAKING. (1 cr, prereq 1507 or #; sec 90 (126054) 5:00-6:30 W; SpHC 20; Gilbertson, K; \$60.75) [O]

Rescue techniques, bracing, paddle strokes, maneuvering skills, examination of water hydraulics for use in whitewater conditions. Practical experience on local rivers and lakes. Successful completion results in certification from the American Canoe Association and American Red Cross. Limited to 8 students.

PE 1614. SELF-DEFENSE. (1 cr, sec 90 (528772) 6:00-8:00 T; SpHC 145; Ladsten, N; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 25 students.

PE 1814. OFFICIATING BASEBALL, SOFTBALL. (1 cr, sec 90 (525113) 8:00-9:50 M; SpHC 207; Hanna, S; \$60.75 and \$4.00 materials fee) [O]

Liberal education physical education course. Limited to 25 students.

PE 3220. INDIVIDUAL SPORTS TRAINING PROGRAMS. (2 cr; prereq 1600 or #; sec 90 (030218) 6:00-7:50 T; SpHC 201; Keener, J; \$129.00) [O]

Training procedures for individual sports such as distance running, cross country skiing, and triathlon. Principles of aerobic and anaerobic training, weight training, cross-training, nutritional considerations, and overtraining applied to individual sports. Limited to 25 students.

Physical Education Professional (PEP)

PEP 3750. MOVEMENT EXPERIENCE FOR THE YOUNG CHILD. (2 cr, \$PE 3314; prereq 3020 or PE 3113, 3710 or PE 3110, BAS PE candidate, or Δ; sec 90 (944211) 6:00-8:50 M; SpHC 208; Nierengarten, M; \$129.00) [A]

Movement patterns, planning, instruction in early childhood education. Limited to 20 students.

Political Science (Pol)

Fall

Pol 3080. ENVIRONMENT AND POLITICS. (4 cr, prereq 1011, 60 cr, or #; sec 90 (675775) 6:00-9:20 Th; Cina 308; Cuzzo, M; \$258.00) [A]

American natural resource problems with special attention to conservation activities on the national, state, and local levels; development of conservation agencies in Minnesota. Limited to 35 students.

Winter

Pol 3325. THE AMERICAN CHIEF EXECUTIVE. (4 cr, \$5320, \$5325; prereq 1011, 60 cr, or #; sec 90 (241855) 6:00-9:20 W; Cina 308; Lease, M; \$258.00) [O]

Constitutional powers and political roles of the president and governors; the chief executive and administration; executive relations with legislatures; party and popular leadership; presidential roles in crisis. Limited to 35 students.

Pol 3902. SPECIAL TOPICS: POLITICAL PSYCHOLOGY. (4 cr, [may be repeated for a max of 8 cr]; prereq 60 cr including 8 cr in soc sci or #; sec 90 (843973) 6:00-9:20 Th; Cina 308; Cuzzo, M; \$258.00) [O]

Examine several psychological models of and approaches to political behavior. Examples include personality-based models (psychoanalytic, humanistic), moving to environmentally deterministic models (operant conditioning, social learning), and cognitive models (attribution theory). Also includes psychological explanations of and prescriptions for politics. Limited to 35 students.

Spring

Pol 1011. AMERICAN GOVERNMENT AND POLITICS. (4 cr, \$1010; sec 90 (233447) 6:00-9:20 W; Cina 308; Lease, M; \$243.00) [A]

Principles of American national government. Survey of the American governmental system, structure, operations, and services; constitutionalism, federalism, civil liberties, parties, pressure groups, and elections. Limited to 40 students.

Pol 1600. POLITICAL CONCEPTS. (4 cr, sec 90 (230306) 6:00-9:20 Th; Cina 308; Cuzzo, M; \$243.00) [A]

Basic concepts, approaches, and methodologies of political theory. Includes analysis of such concepts as justice, rights, freedom, equality, political obligation. Limited to 40 students.

Pol 3415. INTERNATIONAL LAW. (4 cr, sec 90 (134039) 6:00-9:20 T; Cina 308; von Glahn, G; \$258.00) [A]

Nature and sources of international law; study of cases, writers, and treaties that define content of international law, subjects; human rights; protection of aliens; extradition; territorial questions; diplomatic agents; international agreements; pacific settlement of disputes; law and war crimes. Limited to 40 students.

Psychological Foundations (PsyF)

Fall

PsyF 5311. CHILD DEVELOPMENT: CURRENT THEORY AND RESEARCH. (3 cr, prereq Psy 3371 or EIED 3114 or ECh 3105 or grad standing or #; sec 90 (775587) 6:00-8:40 T; BohH 343; Das, A; \$193.50) [O]

An introduction to the psychoanalytic, cognitive-developmental, and social learning viewpoints on child development. Review of significant research derived from these theoretical viewpoints. Limited to 20 students.

PsyF 5516. SEX: A HUMAN FUNCTION. (4 cr, \$5515; prereq #; sec 90 (010440) hours and room arranged; Bogen, I; \$258.00) [O] Please see page 7.

Winter

PsyF 5512. DEVELOPMENTAL GUIDANCE. (4 cr, prereq 9 cr in psychology or #; sec 90 (720539) 6:00-7:45 TTh; BohH 351; Gum, M; \$258.00) [O]

Developmental task theory and the tasks of the child, adolescent, and young adult. Application of the developmental task theory to guidance and learning situations. Limited to 20 students.

PsyF 5516. SEX: A HUMAN FUNCTION. (4 cr, §5515; prereq #; sec 90 (820774) hours and room arranged; Bogen, I; \$258.00) [O] Please see page 7.

Spring

PsyF 5516. SEX: A HUMAN FUNCTION. (4 cr, §5515; prereq #; sec 90 (633056) hours and room arranged; Bogen, I; \$258.00) [O] Please see page 7.

Psychology (Psy)

Fall

Psy 1003. GENERAL PSYCHOLOGY. (5 cr, sec 90 (707337) 6:00-8:15 TTh; MonH 70; Miller, K; \$303.75) [A]

Introduction to scientific study of behavior; consideration of the major topics investigated by psychologists with emphasis on basic principles, concepts, and procedures used in psychology. Limited to 100 students.

Psy 1003. GENERAL PSYCHOLOGY. (5 cr, sec 91 (575610) hours and room arranged; Bogen, I; \$303.75) [A] Please see page 7.

Psy 3020. BASIC STATISTICAL METHODS. (5 cr, §3811; prereq 1003, Math 1003, psychology major or minor or #; sec 90 (211318) 6:00-8:15 MW; BohH 343; Gindy, K; sec 91 (375611) 5:00-7:15 TTh; BohH 104; Broughton, V; \$322.50) [A]

Descriptive statistics, introduction to correlational analysis and regression, sampling techniques and statistical inference; applications of simple analysis of variance and chi square in the behavioral sciences. Limited to 30 students each section.

Psy 3021. EXPERIMENTAL DESIGN AND METHODOLOGY. (5 cr, prereq 3020, 3 hrs lect, 2 hrs lab, 2 hrs ar; sec 90 (507825) 6:00-8:15 TTh; BohH 108; Grossman, E; \$322.50) [A]

Introduction to problems and methods of experimentation in psychology; the logical and scientific basis of experimental psychology; problems and techniques of designing, conducting, and reporting experiments; selected statistical topics and methods of psychological scaling; experimental procedures and research perception, learning, motivation, thinking, language and group behavior. Limited to 30 students.

Psy 3041. MOTIVATION AND EMOTION. (3 cr; prereq 3021; sec 90 (377763) 6:00-8:40 W; MonH 30; Stuecher, U; \$193.50) [A]

Situational, psychological, and physiological determinants of human and animal behavior; theories of motivation and emotion. Limited to 30 students.

Psy 3201. SOCIAL PSYCHOLOGY. (3 cr, prereq 1003; sec 90 (809614) 6:00-8:40 Th; Cina 106; Gordon, R; \$193.50) [A]

Individuals as members of society; influence of social forces and social interaction on personality development and attitudes. Study of group interactions and influences. Limited to 30 students.

Psy 3215. TOPICS IN HUMAN SEXUALITY. (3 cr, prereq 1003 or #; sec 90 (506965) 6:00-9:00 T; BohH 112; Bogen, I; sec 91 (102756) 6:00-8:40 W; BohH 234; Strom-McCutcheon, R; \$193.50) [A]

Examination of constitutional and psychosocial factors leading to gender development and establishment of sexual roles; group discussion of family and peer group influences on attitudes, values, and behavior. Limited to 40 students each section.

Psy 3216. HUMAN SEXUALITY: A PERSONAL PERSPECTIVE. (3 cr, §3215; prereq 1003 or #; sec 90 (409423) hours and room arranged; Slack, K; \$193.50) [A]

Please see page 7.

Psy 3231. PSYCHOLOGY OF DRUG USE. (3 cr, prereq 1003 or #; sec 90 (776593) 6:00-8:40 T; ABAH 245; Doane, M; \$193.50) [A]

Examination of predisposers to drug use; acute and chronic psychosocial effects of drug use; prevention, treatment, and crisis intervention strategies. Limited to 30 students.

Psy 3331. DEVELOPMENTAL PSYCHOLOGY. (5 cr, prereq 1003; sec 90 (375608) 6:00-8:15 MW; MonH 80; Taylor, S; \$322.50) [A]

Major processes involved in human development from conception to death. Topics to include a survey of theoretical and methodological issues in the study of the individual, a comprehensive view of development during the period of most rapid growth, a perspective on problems arising at different stages of development by tracing their origin. Limited to 100 students.

Psy 3331. DEVELOPMENTAL PSYCHOLOGY. (5 cr, prereq 1003; sec 91 (877167) hours and room arranged; Das, A; \$322.50) [A]

Please see page 7.

Psy 3522. BASIC HELPING SKILLS. (5 cr, prereq 1003 or #; sec 90 (810259) 6:00-8:15 MW; BohH 311; Smaby, M; \$322.50) [A]

Rationale for and practice of the basic skills needed for effective interpersonal helping. Limited to 25 students.

Psy 3535. CAREER AWARENESS AND DEVELOPMENT. (3 cr, prereq 1003, 15 cr, or #; sec 90 (404982) hours and room arranged; Falk, R; sec 91 (702509) hours and room arranged; Heikel, K; sec 92 (611610) hours and room arranged; Kjolhaug, D; sec 93 (809564) hours and room arranged; Pribyl, J; sec 94 (107576) hours and room arranged; Westlund, J; \$193.50) [A]

Please see page 7.

Psy 3611. LEARNING AND CONDITIONING. (3 cr, limited to majors or minors in psychology or #; prereq 3021; sec 90 (610294) 6:00-8:40 M; MonH 30; Stuecher, U; \$193.50) [A]

Basic principles of learning and conditioning; discussion of learning theories from historical, philosophical, and experimental aspects. Limited to 30 students.

Winter

Psy 1003. GENERAL PSYCHOLOGY. (5 cr, sec 90 (318258) 5:00-7:15 TTh; MonH 70; Olson, M.; \$303.75) [A]

Introduction to scientific study of behavior; consideration of the major topics investigated by psychologists with emphasis on basic principles, concepts, and procedures used in psychology. Limited to 100 students.

Psy 1003. GENERAL PSYCHOLOGY. (5 cr, sec 91 (544325) hours and room arranged; Bogen, I, Maddy, J; \$303.75) [A]

Please see page 7.

Psy 3020. BASIC STATISTICAL METHODS. (5 cr, §3811; prereq 1003, Math 1003, psychology major or minor or #; sec 90 (516959) 6:00-8:15 MW; BohH 346; Gindy, K; \$322.50) [A]

Descriptive statistics, introduction to correlational analysis and regression, sampling techniques and statistical inference; applications of simple analysis of variance and chi square in the behavioral sciences. Limited to 30 students.

Psy 3022. EXPERIMENTAL DESIGN AND METHODOLOGY. (5 cr, prereq 3020, 3 hrs lect, 2 hrs lab, 2 hrs ar; sec 90 (516234) 6:00-8:15 MW; BohH 108; Grossman, E; \$322.50) [A]

Introduction to problems and methods of experimentation in psychology; the logical and scientific basis of experimental psychology; problems and techniques of designing, conducting, and reporting experiments; selected statistical topics and methods of psychological scaling; experimental procedures and research findings in areas of psychophysics, sensory processes, perception, learning, motivation, thinking, language, and group behavior. Limited to 30 students.

Psy 3081. SYSTEMS OF PSYCHOLOGY. (3 cr, limited to jr and sr Psy majors or #; prereq 3021; sec 90 (522549) 6:00-8:40 M; Engr 177; Stuecher, U; \$193.50) [A]

Survey of historical development and current status of contemporary systems and theories in psychology. Limited to 30 students.

Psy 3215. TOPICS IN HUMAN SEXUALITY. (3 cr, prereq 1003 or #; sec 90 (842063) 6:00-8:40 M; BohH 234; Pedersen-Randall; sec 91 (821570) 6:00-9:00 T; BohH 112; Bogen, I; \$193.50) [A]

Examination of constitutional and psychosocial factors leading to gender development and establishment of sexual roles; group discussion of family and peer group influences on attitudes, values, and behavior. Limited to 25 students each section.

Psy 3216. HUMAN SEXUALITY: A PERSONAL PERSPECTIVE. (3 cr, \$3215; prereq 1003 or #; sec 90 (022068) hours and room arranged; Slack, K; \$193.50) [A]

Please see page 7.

Psy 3331. DEVELOPMENTAL PSYCHOLOGY. (5 cr, prereq 1003; sec 90 (513978) 6:00-8:15 TTh; Cina 308; Taylor, S; \$322.50) [A]

Major processes involved in human development from conception to death. Topics to include a survey of theoretical and methodological issues in the study of the individual, a comprehensive view of development during the period of most rapid growth, a perspective on problems arising at different stages of development by tracing their origin. Limited to 100 students.

Psy 3331. DEVELOPMENTAL PSYCHOLOGY. (5 cr, prereq 1003; sec 91 (643960) hours and room arranged; Das, A; \$322.50) [A]

Please see page 7.

Psy 3531. PSYCHOLOGY OF PERSONAL ADJUSTMENT. (3 cr, prereq 1003; sec 90 (922550) 6:00-8:40 M; MonH 30; Staff; \$193.50) [A]

Study of the process of adjustment; patterns of maladjustment, and extent of mental health problems. Consideration of the relationship between our culture and psychological adjustment. Limited to 30 students.

Psy 3535. CAREER AWARENESS AND DEVELOPMENT. (3 cr, prereq 1003, 15 cr, or #; sec 90 (612806) hours and room arranged; Falk, R; sec 91 (816630) hours and room arranged; Heikel, K; sec 92 (515567) hours and room arranged; Kjolhaug, D; sec 93 (023706) hours and room arranged; Pribyl, J; sec 94 (321676) hours and room arranged; Westlund, J; \$193.50) [A]

Please see page 7.

Psy 3540. PSYCHOLOGY OF FOOD ABUSE. (3 cr, prereq 1003, #; sec 90 (413567) 6:00-8:40 W; BohH 104; Strom-McCutcheon, R; \$193.50) [A]

Focus on psychological underpinnings of eating disorders of obesity, anorexia, and bulimia. Etiology, psychodynamics, and treatment. Limited to 30 students.

Psy 3701. PSYCHOLOGY IN PERSONNEL WORK. (3 cr, prereq 1003; sec 90 (418526) 6:00-8:40 Th; BohH 112; Falk, R; \$193.50) [A]

Introduction to contributions of the field of psychology to modern personnel work, including testing, selection, merit rating, training, counseling, facilitating environments, and morale. Limited to 30 students.

Psy 3821. PSYCHOLOGICAL MEASUREMENT. (3 cr, prereq 3020 or #; sec 90 (041459) 6:00-8:40 Th; Cina 102; Falk, R; \$193.50) [O]

Study of selection, preparation, administration, and interpretation of psychological tests and diagnostic devices, with emphasis on sources of tests of intelligence, aptitude, achievement, personality, and interest; criteria for their evaluation, methods scoring, and interpretation; preliminary consideration of theories of reliability and validity of measurements. Limited to 30 students.

Spring

Psy 1003. GENERAL PSYCHOLOGY. (5 cr, sec 90 (833850) 6:00-8:15 MW; MonH 80; Olson, M; \$303.75) [A]

Introduction to scientific study of behavior; consideration of the major topics investigated by psychologists with emphasis on basic principles, concepts, and procedures used in psychology. Limited to 100 students.

Psy 1003. GENERAL PSYCHOLOGY. (5 cr, sec 91 (041624) hours and room arranged; Bogen, I, Maddy, J; \$303.75) [A]

Please see page 7.

Psy 3201. SOCIAL PSYCHOLOGY. (3 cr, prereq 1003; sec 90 (143414) 6:00-8:40 T; Room TBA; Gordon, R; \$193.50) [A]

Individuals as members of society; influence of social forces and social interaction on personality development and attitudes. Study of group interactions and influences. Limited to 30 students.

Psy 3215. TOPICS IN HUMAN SEXUALITY. (3 cr, prereq 1003 or #; sec 90 (132638) 6:00-8:40 Th; Cina 102; Staff; sec 91 (441627) 6:00-9:00 T; BohH 112; Bogen, I; \$193.50) [A]

Examination of constitutional and psychosocial factors leading to gender development and establishment of sexual roles; group discussion of family and peer group influences on attitudes, values, and behavior. Limited to 30 students each section.

Psy 3216. HUMAN SEXUALITY: A PERSONAL PERSPECTIVE. (3 cr, \$3215; prereq 1003 or #; sec 90 (531560) hours and room arranged; Slack, K; \$193.50) [A]

Please see page 7.

Psy 3221. CHANGING ROLE OF WOMEN. (4 cr, prereq 1003; sec 90 (331415) 5:30-9:00 W; MonH 206; Maddy, J; \$258.00) [A]

Analysis of biological and cultural factors present in the formation of "masculine" and "feminine" roles and personalities; the relationship between sex identity and self-concept; the effects of sex roles on interpersonal relationships; formation of attitudes, values, and beliefs as related to sex roles; effects of sex roles on vocational choice and achievement. Limited to 40 students.

Psy 3331. DEVELOPMENTAL PSYCHOLOGY. (5 cr, prereq 1003; sec 90 (443961) hours and room arranged; Das, A; \$322.50) [A]

Please see page 7.

Psy 3522. BASIC HELPING SKILLS. (5 cr, prereq 1003 or #; sec 90 (624681) 6:00-8:15 TTh; BohH 311; Smaby, M; \$322.50) [A]

Rationale for and practice of the basic skills needed for effective interpersonal helping. Limited to 25 students.

Psy 3531. PSYCHOLOGY OF PERSONAL ADJUSTMENT. (3 cr, prereq 1003; sec 90 (641626) 6:00-8:50 W; BohH 311; Miller, K; \$193.50) [O]

Study of the process of adjustment; patterns of maladjustment, and extent of mental health problems. Consideration of the relationship between our culture and psychological adjustment. Limited to 26 students.

Psy 3535. CAREER AWARENESS AND DEVELOPMENT. (3 cr, prereq 1003, 15 cr, or #; sec 90 (529047) hours and room arranged; Falk, R; sec 91 (630318) hours and room arranged; Heikel, K; sec 92 (928431) hours and room arranged; Kjolhaug, D; sec 93 (232220) hours and room arranged; Pribyl, J; sec 94 (430319) hours and room arranged; Westlund, J; \$193.50) [A]

Please see page 7.

Recreation (Rec)

Winter

Rec 3331. CAMP ADMINISTRATION. (3 cr, sec 90 (015282) 6:00-8:20 W; SpHC 208; Lundstrom, E; \$193.50) [O]

Theoretical and practical knowledge regarding the organization and management of camps. Limited to 20 students.

Spring

Rec 3320. RECREATIONAL INTRAMURALS. (3 cr, sec 90 (827143) 6:00-9:00 Th; SpHC 210; Haney, R; \$193.50) [O]

A theoretical study regarding the organization and administration of school recreation programs. Limited to 30 students.

Rec 3330. OUTDOOR RECREATION. (3 cr, sec 90 (041638) 6:00-8:30 W; SpHC 208; Lundstrom, E; \$193.50) [O]

An overall view of outdoor recreation with special emphasis on northern Minnesota. Limited to 30 students.

Russian (Russ)

Fall

Russ 1231. INTERMEDIATE RUSSIAN I. (4 cr, prereq 1113 or #; sec 90 (576711) 6:00-7:40 MTh; H 468; Morgan, T; \$243.00) [A]

Development of reading, writing, listening comprehension, and speaking skills in Russian; further inquiry into grammar of the language. Limited to 20 students.

Winter

Russ 1232. INTERMEDIATE RUSSIAN II. (4 cr, prereq 1231 or #; sec 90 (042532) 6:00-7:45 MTh; Room TBA; Morgan, T; \$243.00) [A]

Development of reading, writing, listening comprehension, and speaking skills in Russian; further inquiry into grammar of the language. Limited to 20 students.

Spring

Russ 1233. INTERMEDIATE RUSSIAN III. (4 cr, prereq 1232 or #; sec 90 (242536) 6:00-7:40 MTh; Room TBA; Morgan, T; \$243.00) [A]

Development of reading, writing, listening comprehension, and speaking skills in Russian; further inquiry into grammar of the language. Limited to 20 students.

Safety (Safe)

Winter

Safe 5111. TRAFFIC AND FLEET SAFETY. (2 cr, [cr to be used only for MIS program]; prereq Δ ; sec 90 (813467) 6:00-8:00 M; VKH 221; Lund, R; \$129.00) [A]

An overview of traffic and highway safety problems including highway design, traffic control, and regulation. In- and out-of-building vehicle and pedestrian traffic control with special emphasis on fleet safety programs. Limited to 30 students.

Spring

Safe 5100. INDUSTRIAL FIRST AID. (2 cr, [cr to be used only for MIS program]; prereq Standard First Aid Certificate or # and Δ ; sec 90 (125261) 6:00-7:50 M; VKH 140; Lundstrom, E; \$129.00) [A]

Principles of first aid as related to industrial accident prevention with emphasis on knowledge, skills, and judgments. Leads to the American Red Cross Standard First Aid Instructor's Rating. Limited to 30 students.

Sociology (Soc)

Fall

Soc 1100. SOCIOLOGY AND SOCIAL PROBLEMS. (5 cr, sec 90 (101865) 5:00-7:20 MW; Cina 202; Brown, L; sec 91 (609999) 6:00-8:05 TTh; Cina 202; Gittings, R; \$303.75) [A]

An introduction to sociological concepts and their application in understanding social problems. Limited to 80 students each section.

Soc 1200. INTRODUCTION TO THE FAMILY. (4 cr, sec 90 (109201) 6:00-9:20 M; Cina 102; Belote, J; \$243.00) [A]

A study of the changing roles of the sexes in paired personal relationships more traditionally referred to as mate selection, courtship, marriage, and the process of family formation, maintenance or dissolution, as well as alternative family forms. Limited to 80 students.

Soc 1300. INTRODUCTION TO CRIMINOLOGY. (4 cr, \$3300; prereq 1100; sec 90 (876715) 6:00-9:20 W; Cina 316; Staff; \$243.00) [A]

Analysis of social justice with emphasis on criminal justice system in United States. Special attention to nature, extent of crime, and social factors related to criminal behavior. Limited to 30 students.

Soc 1500. INTRODUCTION TO SOCIAL SCIENCE RESEARCH METHODS. (4 cr, \$1401; prereq 1400 or Anth 1602 or Anth 1604 or Δ ; sec 90 (106640) 6:00-9:20 T; Cina 224; Fleischman, W; \$243.00) [A]

The logic of social scientific explanation. An overview of research designs and types of measurement. An introduction to data analysis. Limited to 30 students.

Soc 3305. SOCIOLOGICAL THEORIES OF DEVIANCE. (4 cr; \$3304; prereq 1100, 1500, 40 cr or #; sec 90 (777162) 6:00-9:20 M; Cina 224; Hamlin, J; \$258.00) [A]

An examination of theories explaining deviance. The implications of these theories for the reduction of deviance at various stages in the "career" of the deviant. Limited to 30 students.

Soc 3310. SOCIOLOGY OF CRIMINAL LAW. (4 cr, prereq 1100 and 1500, 55 cr, or #; sec 90 (103091) 4:30-6:00 MT; Cina 224; Friedman, F; \$258.00) [A]

The nature, goals, and problems of the administration of the American criminal judicial process. Limited to 30 students.

Soc 3316. JUVENILE JUSTICE. (4 cr, prereq 1100, 40 cr, or #; sec 90 (706723) 6:00-9:20 T; Cina 106; Wolf, D; \$258.00) [A]
Examination of contemporary U.S. juvenile justice system. Limited to 30 students.

Soc 3330. LEGAL RESEARCH. (4 cr, prereq 3310, 55 cr, or #; sec 90 (305705) 6:00-9:20 Th; Cina 224; Merritt, D; \$258.00) [A]
Overview of the American legal system, including the courts and the legislature; primary and secondary sources of law; judicial reports; citations and digest; annotated law reports; legal periodicals and research procedure. Different areas of law and the research associated with those areas will be considered. Limited to 30 students.

Soc 3700. SOCIAL PSYCHOLOGY. (4 cr, §3170; prereq 1100, 40 cr, or #; sec 90 (404786) 6:00-9:20 W; Cina 224; Franz, R; \$258.00) [A]
Theory and research issues regarding relation of individual to society. Emphasis on socialization, the effects of social organization and disorganization, and interpersonal interaction. Limited to 30 students.

Soc 3800. SOCIAL ORGANIZATION. (4 cr, §3180, §3800, prereq 1100 or Anth 1604, 40 cr, or #; sec 90 (376712) 6:00-9:20 M; Cina 214; Mork, B; \$258.00) [A]
Introduces the student to the topic of social organization as process and as structure by focusing on the levels of organization including groups, organizations, and community. Limited to 30 students.

Soc 3942. SOCIAL STRATIFICATION AND MINORITIES. (4 cr, prereq 1100, 40 cr, or #; sec 90 (575624) 6:00-9:20 W; Cina 106; Janssen, S; \$258.00) [O]
Class, status, and power as dimensions of stratification; social mobility in the United States and other societies. Minority groups-their nature, origins, disadvantages, and patterns of adjustment. The relationship between classes and minorities. Limited to 60 students.

Winter

Soc 1100. SOCIOLOGY AND SOCIAL PROBLEMS. (5 cr, sec 90 (014200) 5:00-7:10 W; Cina 202; Fleischman, B; sec 91 (921883) 6:00-8:05 TTh; Cina 202; Mork, B; \$303.75) [A]
An introduction to sociological concepts and their application in understanding social problems. Limited to 80 students each section.

Soc 1200. INTRODUCTION TO THE FAMILY. (4 cr, sec 90 (121484) 5:00-8:20 M; Cina 202; Belote, J; \$243.00) [A]
A study of the changing roles of the sexes in paired personal relationships more traditionally referred to as mate selection, courtship, marriage, and the process of family formation, maintenance or dissolution, as well as alternative family forms. Limited to 80 students.

Soc 1300. INTRODUCTION TO CRIMINOLOGY. (4 cr, §3300; prereq 1100; sec 90 (742539) 6:00-9:20 M; Cina 214; Mork, B; \$243.00) [A]
Analysis of social justice with emphasis on criminal justice system in United States. Special attention to nature, extent of crime, and social factors related to criminal behavior. Limited to 30 students.

Soc 1400. DEVELOPMENT OF SOCIOLOGICAL THEORY. (4 cr, §3420; prereq 1100 or Anth 1604 or #; sec 90 (942538) 5:00-8:20 M; ABAH 245; Hamlin, J; \$243.00) [A]
Analysis of classical sociological theory, including Emile Durkheim, Max Weber, Karl Marx, and George H. Mead. Limited to 45 students.

Soc 1500. INTRODUCTION TO SOCIAL SCIENCE RESEARCH METHODS. (4 cr, §1401; prereq 1400 or Anth 1602 or Anth 1604 or Δ; sec 90 (320351) 6:00-9:20 T; Cina 224; Franz, R; \$243.00) [A]
The logic of social scientific explanation. An overview of research designs and types of measurement. An introduction to data analysis. Limited to 18 students.

Soc 3310. SOCIOLOGY OF CRIMINAL LAW. (4 cr, prereq 1100 and 1500, 55 cr, or #; sec 90 (319474) 6:00-9:40 M; Cina 224; Friedman, F; \$258.00) [A]
The nature, goals, and problems of the administration of the American criminal judicial process. Limited to 30 students.

Soc 3315. DELIQUENCY. (4 cr, prereq 1100, 40 cr, or #; sec 90 (141548) 5:00-8:20 M; Cina 106; Hamlin, J; \$258.00) [O]
Analysis of juvenile delinquency in contemporary American society. Includes exploration of major issues concerning causes, prevention, and treatment of juvenile offenders. Limited to 30 students.

Soc 3318. COMMUNITY RELATIONS IN CRIMINAL JUSTICE. (4 cr, prereq 1100, 40 cr, or #; sec 90 (118522) 6:00-9:20 W; Cina 224; Weegman, C; \$258.00) [A]
The exploration of the relationship of law enforcement and corrections to the community with primary focus on crime prevention and rehabilitation. Limited to 30 students.

Soc 3720. SURVEY OF CRISIS INTERVENTION. (4 cr, §3721, §3722, §3732 when topic is crisis intervention; prereq 40 cr, introductory course in sociology or psychology or #; sec 90 (823562) 6:00-9:20 T; ABAH 245; Lemons, D; \$258.00) [A]
Analysis of crisis intervention theory and the development of crisis intervention and its application in the community. Areas stressed include maturational crisis, situational crisis, interpersonal communication skills, and the learning of coping mechanisms. Limited to 20 students.

Spring

Soc 1100. SOCIOLOGY AND SOCIAL PROBLEMS. (5 cr, sec 90 (829653) 6:00-8:05 MW; Cina 202; Staff; sec 91 (127284) 5:00-7:15 TTh; Cina 202; Staff; \$303.75) [A]
An introduction to sociological concepts and their application in understanding social problems. Limited to 80 students each section.

Soc 1200. INTRODUCTION TO THE FAMILY. (4 cr, sec 90 (431955) 6:00-9:20 T; ABAH 245; Belote, J; \$243.00) [A]
A study of the changing roles of the sexes in paired personal relationships more traditionally referred to as mate selection, courtship, marriage, and the process of family formation, maintenance or dissolution, as well as alternative family forms. Limited to 60 students.

Soc 1300. INTRODUCTION TO CRIMINOLOGY. (4 cr, §3300; prereq 1100; sec 90 (142537) 6:00-9:20 T; Cina 224; Ollenburger, J; \$243.00) [A]
Analysis of social justice with emphasis on criminal justice system in United States. Special attention to nature, extent of crime, and social factors related to criminal behavior. Limited to 30 students.

Soc 3320. LAW ENFORCEMENT AGENCY ADMINISTRATION. (4 cr, prereq 1100, 40 cr, or #; sec 90 (724624) 6:00-9:20 W; Cina 224; Weegman, C; \$258.00) [A]
Explores the nature, goals, and problems of law enforcement agencies. Includes defining the management function of administration as it relates to law enforcement processes. Limited to 30 students.

Soc 3370. COMPARATIVE SYSTEMS OF PUNISHMENT AND CORRECTIONS. (4 cr; §3300, prereq 1100; sec 90 (544177) 6:00-9:20 T; Cina 106; Wolf, D; \$258.00) [A]
Analysis of social justice with emphasis on criminal justice system in United States. Special attention to nature, extent of crime, and social factors related to criminal behavior. Limited to 30 students.

Soc 3400. CONTEMPORARY SOCIOLOGICAL THEORY. (4 cr, §3420; prereq 1400, 1500, and 40 cr, or Δ; sec 90 (942541) 6:00-9:20 M; Cina 214; Hamlin, J; \$258.00) [A]
Theoretical perspectives in sociology during 20th century; examination of several major theories and major paradigms and their importance to sociological thinking. Limited to 30 students.

Soc 3900. SOCIAL ISSUES AND SOCIAL CHANGE. (4 cr, §3190; prereq 1100, 40 cr, or #; sec 90 (142540) 6:00-9:20 Th; Cina 224; Mork, B; \$258.00) [A]

An analysis of the forces of social change and social issues as they affect social life. Emphasis is placed upon the use of social theory and research in comprehending the dynamics of issues and change. Limited to 30 students.

Soc 3960. SOCIOLOGY OF SPORT. (4 cr, prereq 1100 or #; sec 90 (128833) 6:00-9:20 M; Cina 224; Friedman, F; \$258.00) [A]

Examination of sociological phenomena using informal and organized sports as focus. Topics relating to culture, socialization, history, and social organization in the world of sports. Limited to 30 students.

Soc 3970. WOMEN, MEN AND SOCIETY. (4 cr; §5155; prereq 1100, 40 cr, or #; sec 90 (144210) 5:00-8:20 T; Cina 106; Janssen, S; \$258.00) [A]

Explores the impact of society and culture on the relative positions, behavior patterns, and social realities of women and men, using interactionist and structural approaches. Role of specific institutions with special attention to ethnic and socioeconomic variations. Limited to 30 students.

Spanish (Span)

Fall

Span 1231. INTERMEDIATE SPANISH. (4 cr, §1221; 1113 or equiv; sec 90 (875631) 6:00-7:40 TTh; H 464; Seybolt, R; \$243.00) [O]

Review of grammar; conversation, vocabulary building, pronunciation, composition, reading. Limited to 30 students.

Winter

Span 1232. INTERMEDIATE SPANISH. (4 cr, §1222; prereq 1113 or equiv; sec 90 (442065) 6:00-7:40 TTh; Room TBA; Seybolt, R; \$243.00) [O]

Review of grammar; conversation, vocabulary building, pronunciation, composition, reading. Limited to 20 students.

Spring

Span 1233. INTERMEDIATE SPANISH. (4 cr, §1221-1222; prereq 1113 or equiv; sec 90 (541702) 6:00-7:40 TTh; Room TBA; Zeitz, E; \$243.00) [A]

Review of grammar, conversation, vocabulary building, pronunciation, composition, reading. Limited to 20 students.

Supportive Services Program (SSP)

SSP 1003. BASIC MATHEMATICS. (3 cr, [cr cannot be applied toward a degree], §1053, §Math 1003, §Math 1110, §Math 1115, §Math 1160, §Math 1185; sec 90 (125793) 6:00-8:30 W; Engr 177; Treuer, P; \$182.25) [P]

Basic computational skills and their applications; basic introduction to algebra. Limited to 30 students.

Theatre (Th)

Fall

Th 1110. ACTING: FUNDAMENTALS. (4 cr, 3 hrs lect, 3 hrs lab; not open to Th majors; sec 90 (205163) 5:00-6:40 MW; MPAC 49; Daugherty, C; \$243.00) [A]

Development of the ability to respond to imaginative situations with sincerity, individuality, and effectiveness; projects in elementary acting techniques. Limited to 18 students.

Winter

Th 1110. ACTING: FUNDAMENTALS. (4 cr, 3 hrs lect, 3 hrs lab; not open to Th majors; sec 90 (917400) 5:00-6:45 MW; MPAC 49; Daugherty, C; \$243.00) [A]

Development of the ability to respond to imaginative situations with sincerity, individuality, and effectiveness; projects in elementary acting techniques. Limited to 18 students.

Spring

Th 1110. ACTING: FUNDAMENTALS. (4 cr, 3 hrs lect, 3 hrs lab; not open to Th majors; sec 90 (325114) 5:00-6:40 MW; MPAC 49; Daugherty, C; \$243.00) [A]

Development of the ability to respond to imaginative situations with sincerity, individuality, and effectiveness; projects in elementary acting techniques. Limited to 18 students.

Urban and Regional Studies (URS)

Spring

URS 1001. INTRODUCTION AND ORIENTATION TO URBAN AND REGIONAL STUDIES. (2 cr, sec 90 (333651) 5:00-6:40 Th; BohH 112; Flaherty, M; \$121.50) [A]

An interdisciplinary perspective that introduces the student to the variety of political, historical, socioeconomic, and spatial elements that are central to an understanding of urban and regional issues in America today. Intended for urban and regional studies sophomores and others considering an urban and regional studies major. Limited to 20 students.

Women's Studies (WS)

Fall

WS 1000. INTRODUCTION TO WOMEN'S STUDIES. (5 cr, sec 90 (706088) 6:00-8:30 MW; Engr 177; Ritmeester, T; sec 91 (109862) 6:00-8:30 TTh; Engr 177; Coultrap-McQuin, S; \$303.75) [A]

An introduction to women's studies as an interdisciplinary field of study; an overview of the many issues related to the current and changing role and status of women; survey and analysis of the contribution of women in such fields as politics, history, religion, literature, science, and the arts. Limited to 20 students each section.

WS 3350. WOMEN AND THE LAW. (4 cr, prereq 1000 or #; sec 90 (475681) 6:00-9:30 T; Cina 102; Richtman, A; \$258.00) [A]

Explores ways women's lives and gender relationships are influenced by laws and judicial system, and how the system can become more responsive to women's experience. Limited to 35 students.

WS 3500. SPECIAL TOPICS: WOMEN AND AGING. (3 cr [may be repeated for a max of 8 cr]; prereq 1000 or #; sec 90 (175683) 5:00-7:30 W; Cina 214; Ollenburger, J; \$193.50) [A]
 Examination of socio-cultural, economic, and health issues associated with aging for women, with emphasis on the theoretical and experiential significance of ageism for all women.

Winter

WS 1000. INTRODUCTION TO WOMEN'S STUDIES. (5 cr, sec 90 (415853) 6:00-8:30 MW; ABAH 435; Ritmeester, T; sec 91 (123566) 6:00-8:30 TTh; BohH 104; Coultrap-McQuinn, S; \$303.75) [A]

An introduction to women's studies as an interdisciplinary field of study; an overview of the many issues related to the current and changing role and status of women; survey and analysis of the contribution of women in such fields as politics, history, religion, literature, science, and the arts. Limited to 20 students each section.

WS 3300. WOMEN, RELIGION, AND SPIRITUALITY. (3 cr, prereq 1000 or #; sec 91 (619206) 6:00-8:30 T; SBE 5; Gustafson, K; \$193.50) [A]

Religions and spirituality in relation to women. Historical and contemporary practices and beliefs. Limited to 20 students.

Spring

WS 1000. INTRODUCTION TO WOMEN'S STUDIES. (5 cr, sec 90 (123969) 6:00-8:30 MW; Cina 102; Gaard, G; sec 91 (633784) 5:00-7:30 TTh; Engr 118; MacLeod, C; \$303.75) [A]

An introduction to women's studies as an interdisciplinary field of study; an overview of the many issues related to the current and changing role and status of women; survey and analysis of the contribution of women in such fields as politics, history, religion, literature, science, and the arts. Limited to 35 students each section.

VI. DIRECTORY OF OFFICES

COLLEGE UNITS

- Business and Economics
- Education
- Health Services
- Humanities
- Physical and Biological Sciences
- Student Services
- University Administration

ACADEMIC DEPARTMENTS

- Accounting
- Anthropology
- Art and Art History
- Biology
- Chemistry
- Civil and Family Development
- Communication
- Computer Science
- Construction Management
- Environmental and Human Services Professions
- Finance and Management Information Systems
- Health Services
- History
- Humanities and Languages
- Industrial and Technical Studies
- International Studies
- Management Studies
- Mathematical Sciences



VI. DIRECTORY OF OFFICES

COLLEGIATE UNITS

Business and Economics	726-7281
Education	726-7131
Fine Arts	726-7261
Liberal Arts	726-8981
Medicine	726-7571
Science and Engineering	726-7201

ACADEMIC DEPARTMENTS

Accounting	726-7966
Aerospace Studies	726-8159
American Indian Studies	726-8771
American Studies	726-7252
Anthropology	726-7551
Art, Art History	726-8225
Astronomy	726-7124
Biology	726-7264
Chemistry	726-7212
Child & Family Development	726-7233
Communication	726-8576
Communication Disorders	726-7974
Composition	726-8131
Computer Science	726-7607
Economics	726-7284
Education and Human Service Professions	726-7131
English	726-8235
Finance & Management Information Sciences	726-7532
Fine Arts	726-7261
Foreign Languages	726-7951
Geography	726-6300
Health	726-7120
History	726-7253
Humanities and Classics	726-8237
Industrial & Technical Studies	726-8290
International Studies	726-8229
Management Studies	726-8992
Mathematical Sciences	726-8254
Music	726-8208
Philosophy	726-8548
Physical Education	726-7120
Physics	726-7124
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Psychology	726-7117
Recreation	726-7128
Sociology	726-7552
Theatre	726-8562
Urban and Regional Studies	726-7534
Women's Studies	726-7953

OFFICES

Achievement Center	726-7152
Bookstore	726-7286
Center for Professional Development	726-6142
Counseling, Career & Placement Services	726-7985
Computing Services	726-7587
Continuing Education and Extension (CEE)	726-8113
Continuing Education and Extension (CEE) Registration	726-8809
Financial Aid for Part-Time Students	726-7500
Graduate School	726-7523
Library and Multi Media Services	726-8102
Recreational Sports Facilities	726-7128
Student Health and Counseling Center	726-8155
Veterans Resource Center	726-8791

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VI. DIRECTORY OF OFFICES

COLLEGE UNITS

Department of Accounting	2000
Department of Business Administration	2000
Department of Economics	2000
Department of Education	2000
Department of English	2000
Department of History	2000
Department of Mathematics	2000
Department of Music	2000
Department of Physical Education	2000
Department of Psychology	2000
Department of Sociology	2000
Department of Spanish	2000
Department of Statistics	2000
Department of Theology	2000
Department of Visual Arts	2000

ACADEMIC DEPARTMENTS

Department of Accounting	2000
Department of Business Administration	2000
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Department of Music	2000
Department of Physical Education	2000
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Department of Sociology	2000
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Department of Visual Arts	2000

SAVE TIME—REGISTER BY MAIL

To register by mail, complete the form below, cut it out, and mail it with the appropriate fees to Continuing Education and Extension, 104 Darland Administration Building, University of Minnesota, Duluth, MN 55812-2496. Your registration will be processed more efficiently if you attach a separate check for each course you are registering in or use VISA or MasterCard as the means of payment.

To complete the registration form, print your name, home address, telephone number, mailing address (if different from home address), birthdate, sex, Social Security number, University of Minnesota ID number (if you have one), and term and year for which you are registering. Also complete the information about the courses for which you are registering: department, course number, section, course title, number of credits, grading preference, hours, days, building and room, and tuition and other fees. (See the Course Descriptions section for complete course information.)

Make your check or money order for tuition and fees payable to the University of Minnesota, or fill out credit card information below.

Continuing Education and Extension

University of Minnesota Course Enrollment Request

ID No			Name							
Soc Sec No			Street Address							
Birthdate ___ F ___ M			City			State		Zip		
Term ___ F ___ W ___ S ___ SS 19___			Telephone No							
Graduate Credit ___ Yes ___ No			Supplying this information is voluntary I. Are you presently listed as an International Student (non-resident alien)? ___ Yes ___ No II. Check your predominant ethnic background: ___ 1. Black, African-American background ___ 4. Chicano or Mexican American ___ 2. American Indian or Alaskan Native ___ 5. Puerto Rican, Cuban or Other Hispanic Origin ___ 3. Asian or Pacific Islander ___ 6. White, Caucasian, non-Hispanic							
Course Requests - First Choice (Original Registration)				Course Requests - Second Choice (or Cancel/Add Additions)				Course Cancellations		
Call Number	Grade Option	Variable Credit	Designator, Course Number and Section	Call Number	Grade Option	Variable Credit	Designator, Course Number and Section	Call Number	Designator, Course Number and Section	
Visa / MasterCard No							Expiration Date			

Tuition Refund - 100% first week of the quarter - 75% second week of the quarter - 50% third week of the quarter - 0% after third week of the quarter

Rev 1/91

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Visa / MasterCard No							Expiration Date		

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Term ___ F ___ W ___ S ___ SS 19___			Telephone No						
Graduate Credit ___ Yes ___ No			Supplying this information is voluntary						
			I. Are you presently listed as an International Student (non-resident alien)? ___ Yes ___ No						
			II. Check your predominant ethnic background:						
			___ 1. Black, African-American background		___ 4. Chicano or Mexican American				
		___ 2. American Indian or Alaskan Native		___ 5. Puerto Rican, Cuban or Other Hispanic Origin					
		___ 3. Asian or Pacific Islander		___ 6. White, Caucasian, non-Hispanic					
Course Requests - First Choice (Original Registration)				Course Requests - Second Choice (or Cancel/Add Additions)				Course Cancellations	
Call Number	Grade Option	Variable Credit	Designator, Course Number and Section	Call Number	Grade Option	Variable Credit	Designator, Course Number and Section	Call Number	Designator, Course Number and Section
Visa / MasterCard No							Expiration Date		

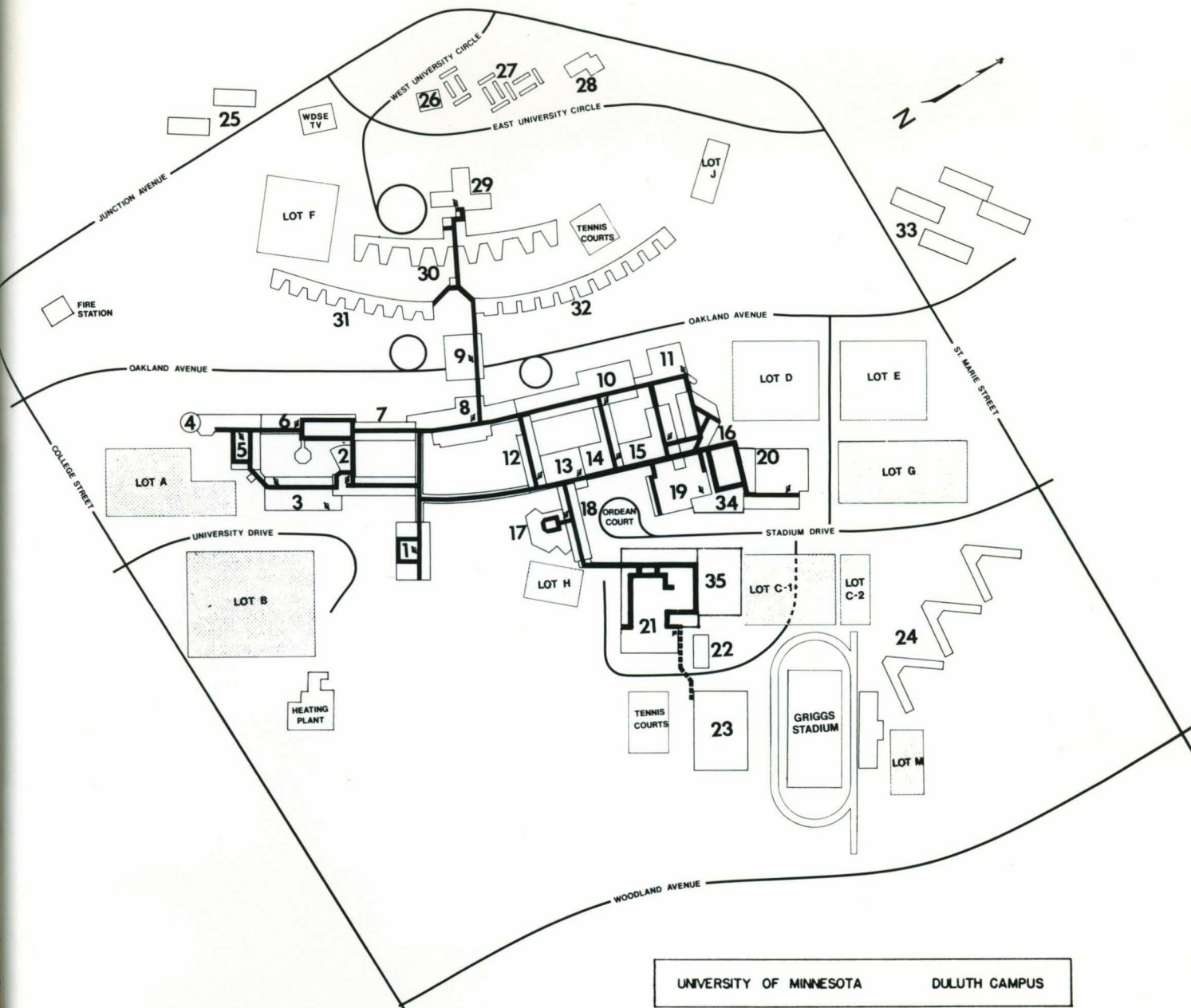
Tuition Refund - 100% first week of the quarter - 75% second week of the quarter - 50% third week of the quarter - 0% after third week of the quarter
Rev 1/91

Continuing Education and Extension

University of Minnesota Course Enrollment Request

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Soc Sec No			Street Address						
Birthdate ___ F ___ M			City				State		Zip
Term ___ F ___ W ___ S ___ SS 19___			Telephone No						
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Call Number	Grade Option	Variable Credit	Designator, Course Number and Section	Call Number	Grade Option	Variable Credit	Designator, Course Number and Section	Call Number	Designator, Course Number and Section
Visa / MasterCard No							Expiration Date		

Tuition Refund - 100% first week of the quarter - 75% second week of the quarter - 50% third week of the quarter - 0% after third week of the quarter
Rev 1/91



UNIVERSITY OF MINNESOTA DULUTH CAMPUS

Buildings

Darland Administration	1	Marshall Performing Arts Center	19
Chemistry Building	2	Voss-Kovach Hall	20
School of Medicine	3	Physical Education	21
Marshall W. Alworth Planetarium	4	ROTC, Air Force	22
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Bohannon Hall	14	Burntside Hall	32
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Humanities Building	18	Sports Complex	35

University of Minnesota Duluth
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University of Minnesota Duluth
Continuing Education and Extension (CEE)
403 Darland Administration Building
10 University Drive
Duluth, MN 55812-2496

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Minnesota

(218) 726-8113

Fall Quarter
September 9 to November 22

Winter Quarter
December 2 to February 28

Spring Quarter
March 9 to May 22

James H Fetzer, Head
Philosophy
359 A B A H
Duluth, MN 55812