

UNIVERSITY OF MINNESOTA

Summer Evening Classes

Credit and noncredit courses for adult and part-time learners

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 UNIVERSITY COLLEGE
CONTINUING EDUCATION

1997 Summer Evening Extension Classes

Term Dates:

First 5-week term: June 17 (Tuesday) to July 22
Ten-week term: June 17 (Tuesday) to August 27
Second 5-week term: July 24 (Thursday) to August 27

Registration Dates for all Classes:

I. Mail Registration

Ten-week term: May 5 to June 13
First 5-week term: May 5 to June 13
Second 5-week term: May 5 to July 18

II. In-Person Registration (See Office Hours, page 8)

Ten-week term: May 15 to June 13
First 5-week term: May 15 to June 13
Second 5-week term: May 15 to July 18

Dual Registration (for admitted day school students only): You also may register in person at registration offices in Fraser Hall or Coffey Hall as well as Wesbrook Hall during in-person registration.

University employees, persons 62 and older: Registrations on Regents' Scholarship, Academic Staff Tuition Benefit, and 62-Plus Plan are not accepted until June 2 for the first 5-week term and 10-week term and July 7 for the second 5-week term. See *Enrollment Information* for details.

Web Site: Visit the University College Web site at <http://www.cee.umn.edu/>

Bulletin Use: The information in this bulletin and other University bulletins, publications, or announcements is subject to change without notice. University offices can provide current information about possible changes.

Alternative Formats: This publication is available in alternative formats upon request. For assistance, please contact the Extension Classes Publications Office, 180 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455; 612/624-3300.

Tuition Policy: The University of Minnesota has a policy for the way different groups of students pay for the courses they take: resident student, reciprocity student, and non-resident student. In addition, students taking 5xxx-level courses for graduate credit, or 8xxx-level courses, pay a separate graduate credit resident, reciprocity, or non-resident rate. Tuition options are listed with courses in this bulletin as applicable. **For complete information, read the section on How to Determine Tuition on page 97.**

Volume 100, Number 2

April 9, 1997

UNIVERSITY OF MINNESOTA (USPS 651-720)

Published by the University of Minnesota, Office of the Vice President for Student Development & Athletics, Communications & Publications, 110 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455-0213; once in February, August, and October; twice in April and May; three times in June; and four times in July. Periodicals postage paid at Minneapolis, Minnesota. POSTMASTER: Send address changes to University of Minnesota, Extension Classes, 101 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455.



About the paper used in this bulletin: Butte des Morts Recycled Book contains 75% deinked recycled fiber, which 10% is post-consumer waste.

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Registration and General Information:

101 Westbrook Hall
University of Minnesota
77 Pleasant Street S.E.
Minneapolis, MN 55455
625-3333

<http://www.cee.umn.edu/extc>

UC/CEE Counseling and Academic Advising:

314 Nolte Center
University of Minnesota
315 Pillsbury Drive S.E.
Minneapolis, MN 55455
625-2500
ceeadv@mail.cee.umn.edu

About the Bulletin Art

This year's cover art is the work of David LaFleur. His art will appear on several University College publications during 1997-98

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, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

In adhering to this policy, the University abides by the Minnesota Human Rights Act, Minnesota Statute Ch. 363; by the Federal Civil Rights Act, 42 U.S.C. 2000e; by the requirements of Title IX of the Education Amendments of 1972; by Sections 503 and 504 of the Rehabilitation Act of 1973; by the Americans With Disabilities Act of 1990; by Executive Order 11246, as amended; by 38 U.S.C. 2012, 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 Stephanie Lieberman, Director, Office of Equal Opportunity and Affirmative Action, University of Minnesota, 419 Morrill Hall, 100 Church Street S.E., Minneapolis, MN 55455; 612/624-9547.

Registration instructions

How to register by mail, FAX, or in person

Read through these procedures carefully before you register! If you have questions after reading the information on registration procedures, call 625-3333.

1. Use the registration form found at the back of this bulletin (photocopies acceptable). Forms and information are also available at the registration office in 101 Wesbrook Hall on the Minneapolis campus (east bank) of the University of Minnesota.

2. Complete the registration form giving all the requested information. Personal information is necessary for records keeping. You will be assigned a University I.D. number the first time you register (be sure to include this number on registration forms in the future).

Each course description in this bulletin provides information necessary in completing the registration form. Courses are listed under departmental or subject heading (alphabetically arranged); where several classifications are possible, cross references are given. Complete the spaces on the form that request information about the course. See the sample course description on page 7.

3. Pay tuition and fees. All tuition and fees are due when you register (except for students whose tuition is billed through STARS). The full amount of tuition and fees is listed with each course. Add appropriate late fees if you are registering after late-fee deadlines (see page 5). Payment options include check, money order, cash (in person only), credit card (VISA, MasterCard, Discover, Novus).

If you are a University student classified as a nonresident/nonreciprocity student, you must pay the nonresident tuition rate. Some reciprocity-approved students also pay a higher rate. See page 97 to determine the tuition rate that applies to you.

4. Submit your registration form (with payment) by mail, FAX, or in person. See the registration dates on the inside front cover. Registrations received by mail or FAX before mail registration begins will not be accepted.

- Mail (or drop off) registrations with payment by check, money order, or credit card or billing authorization to the address below. Make checks to *University of Minnesota*. Include a separate check for each class that has a limit.

Extension Classes
University of Minnesota
101 Wesbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455

- FAX registrations to (612) 625-1511. Put your name and I.D. number or SSN on each page. Payment must be by credit card or billing authorization.

- Register in person at the following locations during in-person registration dates.

Extension Classes	MacPhail Center
Main Registration Office	1128 LaSalle Ave.
101 Wesbrook Hall	Downtown Minneapolis
East Bank Campus	

Day school students admitted to degree programs may register for Extension classes at other campus registration offices, also, during in-person registration.

5. Retain your fee statement (confirmation of enrollment). If you register in person, you will receive a fee statement at the registration office. Fee statements are mailed to students who mail or FAX in their registrations. The fee statement will list any changes in course information (such as room/bldg). Your fee statement is proof of enrollment. Duplicates are available from the registration office.

Up-to-date information about registration procedures and course availability also is available on the WorldWideWeb at <http://www.cee.umn.edu/extc>

Alternate choice courses and sections

Students who are registering by mail are urged to include acceptable alternative sections or courses in the space indicated on the registration form. If the class you want to register for is closed, the Extension registration office will select the first available alternate choice listed and process the registration. (Include registration forms and tuition only for your first choice.)

Closed classes

Limited-enrollment classes for which there is heavy demand will often reach the maximum limit and close.

No waiting lists are kept for Extension classes. If students have unusual and compelling reasons to be admitted to a closed class, they may state their case to the instructor of the class. **Written** permission of the instructor is required for admission to any closed class. These students are not charged a late fee through the first week of class.

Some departments have a strict policy against exceeding class limits; a note appears near the beginning of the department's course listings.

The Extension Classes WorldWideWeb site includes a closed-class list and an up-to-date listing of all classes (including additions and cancellations); the address is:

<http://www.cee.umn.edu/extc>

Early registration permission

Extension students who are nearing the completion of their degree or certificate program from the University need a **required** evening class may obtain special permission to register early for a specific course if it has limited enrollment. This request must be made at least two weeks prior to the start of mail registration for the term in which you wish to register. Contact the UC Counseling department at 625-2500 for information on procedures.

Late registration and additions

A separate late fee applies to each course you are registering for. The late fee deadline is determined by the postmark for mailed-in registrations and by the date received if received by FAX, in-person, or campus mail.

All registrations made in a regular-term class after the first week of the term must be accompanied by the written permission of the instructor. The schedule for late fees is given below.

Late registration deadlines

Through the first week, \$5

First 5-week	10-week	Second 5-week
June 21	June 21	July 30

Through the second week, \$10

First 5-week	10-week	Second 5-week
June 27	June 27	Aug. 6

After these dates, the late fee is \$20.

For special term and special classes, any late registrations accepted after the first class must be accompanied by the written permission of the instructor. Late fees will be based on when the registration is received and how many times the class meets.

Late fees apply to all classes and all registrations, including audits, except for persons 62 and older registering under reduced-tuition options.

Registrations after the mid-point of the term require scholastic committee approval. Deadlines are:

First 5-week term	July 7
Ten-week term	July 28
Second 5-week term	August 14

Approval of registration after these deadlines is rare and given only in cases of extenuating circumstances, usually beyond the student's control. Contact an adviser in the UC Counseling department early in the quarter to discuss options if you have questions. Students can obtain a petition form at the Extension Classes Registration Office, 101 Wesbrook Hall (625-3333), or at

Registration

UC Counseling, 314 Nolte Center (625-2500).

Late fees cannot be included in or billed for registration with authorizations (unless specifically authorized by the employer or agency); Regents' Scholarships; Tuition Assistance Program grants; or under Public Law 894, military personnel on Off-Duty Academic Instruction. *They must be paid personally by the student.*

The late fee for Compleat Scholar/Practical Scholar noncredit courses is \$5; late fee dates are usually given with each course.

Late fees are not refundable.

Additional information about registering in Extension Classes

Your registration

Group information sessions are offered throughout the year by the UC Counseling department. These optional sessions are designed for students new to Extension Classes and to the University; they focus on general requirements, degree program admission, and registration options. Limited information on transfer of credit and financial aid will also be available. For more information or to sign up, call 624-0029.

Birth dates and social security numbers are requested for coding purposes and transcript identification. By supplying these numbers, you help insure that your grades and credits are recorded correctly and our mailing list is kept accurate.

The following information requested on your registration form is defined as private data under state and/or federal laws: birth date, sex, social security number, and University of Minnesota identification (I.D.) number. In general, this information may not be released to others without your consent or a court order. The intended use of the requested information is to identify you in relation to other students' records. Disclosure of this information is voluntary.

Students who have not received fee statements within seven working days after

mailing in registration forms and tuition payment should call 625-3333 to check whether the registration was received and processed. Students should assume they are registered unless notified otherwise. Registrations that cannot be processed for some reason are returned immediately (except for illegible copies).

Courses

Limited-enrollment sections have specified limits on the number of students that will be permitted into the class. These sections are starred next to the section number. The limit is given with the course description in most cases. Early registration by mail is the best way to obtain space in limited-enrollment sections.

When registering by mail, include a separate check for each class that has a limit; this facilitates registration processing if one of your classes is filled or canceled.

In rare cases, it may be necessary to place enrollment limits on nonlimited sections.

Registrations received by mail or FAX in the Extension registration office are processed on a daily basis. Once in-person registration begins, spaces in limited-enrollment classes also will be assigned to students who register in person.

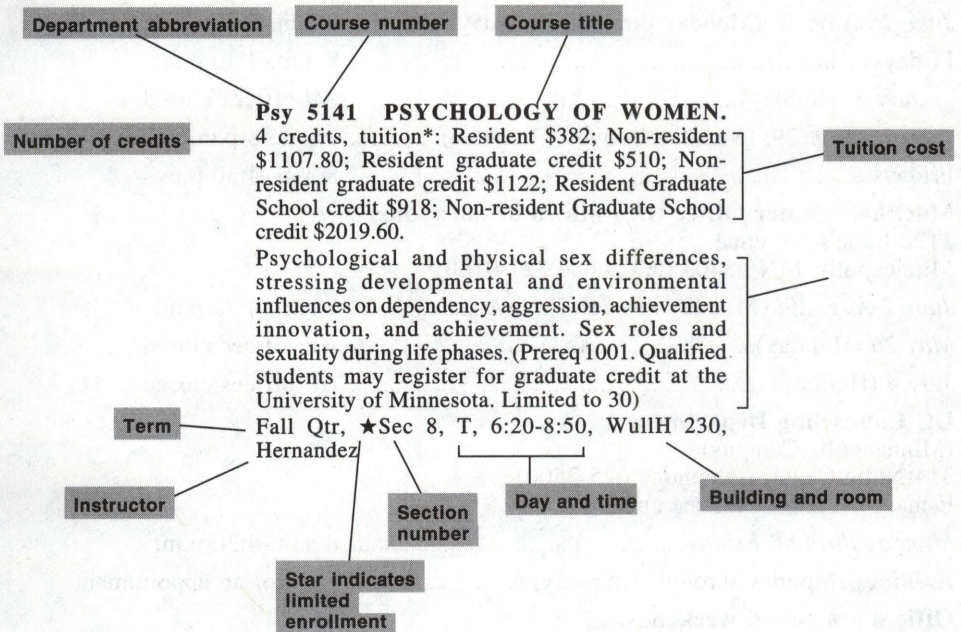
Students who register at the Minneapolis campus registration office at 101 Westbrook Hall should check the closed-class board before bringing their registrations to the registration desk.

For information about grade base option, see page 107.

Additional information about enrollment, grading, credits, financial aid, academic progress, transferring classes (cancel/add), cancellations, refunds, campus services and facilities, and student activities is found in the Enrollment Information, Rules and Regulations, and General Information sections of this bulletin. You are responsible for all the policies and procedures that govern your registration in Extension Classes.

Sample course description

The course description below indicates the information found in course descriptions throughout this bulletin.



See page 97 to determine your tuition rate.

See page 11 for symbols and abbreviations.

All times are p.m. unless indicated a.m.

See the faculty list at the beginning of the department listing for instructor title.

Office Hours

Minneapolis Campus Office

101 Wesbrook Hall, University of Minnesota
77 Pleasant Street S.E.
Minneapolis, MN 55455 (telephone 625-3333)

Through June 13 (Monday through Thursday) 8 a.m.-8 p.m.
Fridays 8 a.m.-4:30 p.m.
May 26 (Holiday) All offices closed
June 16-Aug. 15 (Monday through Thursday): 8 a.m.-6:30 p.m.
Fridays 8 a.m.-4:30 p.m.
July 4 (Holiday) All offices closed
Aug. 18-Aug. 29: (Monday through Thursday): 8 a.m.-8 p.m.
Fridays 8 a.m.-4:30 p.m.

MacPhail Center Office (Downtown Minneapolis)

1128 LaSalle Avenue
Minneapolis, MN 55403 (telephone 321-0100)

June 2-Aug. 29: (Monday through Friday) 8 a.m.-4:30 p.m.
May 26 (Holiday) All offices closed
July 4 (Holiday) All offices closed

UC Counseling Department

(Minneapolis Campus)
314 Nolte Center (telephone 625-2500)
E-mail: ceeadv@mail.cee.umn.edu

Monday through Friday 8 a.m.-4:30 p.m.
Evenings (Monday through Thursday) Call for an appointment

Offices are closed weekends.

Registration Options

<p>Day Classes Registration</p>	<p>Self-registration</p> <p>In-person Registration</p> <p>Locations: 202 Fraser, Minneapolis campus 130 Coffey Hall, St. Paul campus</p> <p>Dual Registration (for admitted students only) 202 Fraser Hall 130 Coffey Hall 101 Wesbrook</p> <p>See <i>Class Schedule</i> or <i>Summer Session Bulletin</i> for registration dates and times</p> <p><i>Note:</i> Certain students need to register in their program office (e.g., MBA, Medical School, Law School, Dentistry, Veterinary Medicine).</p>
	<p>All tuition and fees are billed through Student Accounts Receivable.</p>
<p>Extension Classes Registration</p>	<p>Mail Registration</p> <p>Fax Registration</p> <p>In-person Registration</p> <p>Locations: 101 Wesbrook Hall, Minneapolis campus MacPhail, 1128 LaSalle Ave., downtown Minneapolis</p> <p>Dual Registration (for admitted students only) 101 Wesbrook 202 Fraser Hall 130 Coffey Hall</p> <p>See <i>Extension Classes Bulletin</i> for dates and times of registration.</p> <p><i>Note:</i> Certain students need to register in their program office (e.g., MBT, Neighborhood Programs, ESL, PSEO). </p>
	<p>Due at time of registration*</p> <p>Cash</p> <p>Check/money order</p> <p>Credit card (Visa, MasterCard, Discover)</p> <p><i>*Exception:</i> Students eligible for financial aid, students whose tuition and fees are being billed to an agency, and admitted students using dual registration will have their tuition billed through Student Accounts Receivable.</p>

Bookstores

The evening schedule has been established by University bookstores. Note that bookstores are not open every night.

Pick up books before class. Textbooks may be purchased before the first class at campus bookstores. Official course requirements are available at each of the University bookstores and via the World Wide Web in the University's Course Guide at <http://www.umn.edu/registrar/GUIDE.HTM>

Book refunds: If a course is canceled or if the student drops the class, books may be returned for a full refund through the first week of classes provided the student has a sales receipt for the books and has not written in them. (Last day is June 18 for the first 5-week term and June 25 for the 10-week term; July 25 for the second 5-week term.)

Resale of books: University bookstores will buy back books that will be used in courses in the fall. This sale is conducted throughout the summer.

Summer Hours First Week of Each Term:

June 16-20: 8:30 a.m. to 6 p.m.

July 24, 28-30: 8:30 a.m. to 6 p.m.

July 25: 8:30 a.m. to 5 p.m.

Regular summer hours are 8:30 a.m. to 5 p.m., Monday-Friday.

University of Minnesota Bookstore-East Bank

Williamson Hall (telephone 625-6000)

This bookstore (231 Pillsbury Drive S.E.) sells books for courses in the College of Liberal Arts, Education, General College, and the Institute of Technology (*except for those CLA departments listed below in the West Bank bookstore*).

University of Minnesota Bookstore-West Bank

West Bank (telephone 625-3000)

Located next to Anderson Hall, the West Bank Bookstore sells books for courses in the School of Management, as well as for these College of Liberal Arts departments: history, political science, geography, sociology, Afro-American and African studies, theatre arts, studio arts, economics, public affairs, urban studies, music, music education; and for family social science courses taught on the West Bank campus.

Other Bookstores

University of Minnesota Bookstore-St. Paul (624-9200), the St. Paul campus bookstore (enter through the student center), and University of Minnesota Bookstore-Health Sciences (625-8600) at 2-554 Unit A, are also open during the summer. Telephone them for their hours and supplies.

Course Descriptions

Course Numbering

All University courses carry course numbers of four-digit numerals. The first digit indicates the credit level of the course. See sample below:

0000C-0999C	Certificate course
0000-0999	Noncredit course
1000-1999	Degree credit course primarily for freshmen and sophomores
3000-3999	Degree credit course primarily for juniors and seniors. Also open to other students with at least C averages overall and in all prerequisite work
5000-5999	Degree credit course primarily for juniors, seniors, and graduate-level students
8000-8999	Degree credit course open only to students who have been admitted to the University of Minnesota Graduate School

To take a course beginning with the numeral 5 (indicating a degree credit course intended primarily for juniors, seniors, and graduate students) or beginning with the numeral 8 (indicating a course intended only for students admitted to the University of Minnesota Graduate School) for graduate credit, see Graduate Credit, page 117.

Symbols

- A hyphen between numbers indicates a sequence course, the units of which must be taken in order, unless otherwise indicated.
- ★ Enrollment space limited. See instructions on registration in limited-enrollment sections on page 6.
- † All courses listed before this symbol must be completed before credit may be received.
- § No credit is given if credit has been received for equivalent course listed after this symbol.
- ¶ Concurrent registration is allowed (or required) in courses listed after this symbol.
- # Consent of instructor.
- (IDL) Course also available through Department of Independent and Distance Learning
- A joint Day/Extension class
- △ Consent of unit offering course is required.
- cr Credit
- CEU Continuing Education Unit (10 contact hours of noncredit learning); see page 113.
- Qtr Quarter
- Spec Special Term
- S-N Satisfactory/No credit grading system. See page 107.
- A-F Letter grading system. See page 107.
- Prereq Prerequisite. See page 107.
- Lect Lecture
- Rec Recitation
- Sec Section

Course Descriptions

Credit Course Offerings

(Noncredit courses are listed beginning on page 66. See Buildings and Maps, pages 135-140; Course Numbering, page 11)

Accounting (Acct)

(645 Management/Economics: 624-6506)

Carlson School of Management

Textbooks for most Acct courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Summer Accounting courses are offered for seven weeks, June 17-July 31, although for registration purposes the 10-week term designator is used below and on the registration form. There are four exceptions: Acct 5102, Acct 5135, and Acct 5271 are seven-week courses offered June 18-August 4; and Acct 5160 is a 10-week course offered June 17-August 19.

If for any reason you are having difficulty with registration for evening courses offered by the Accounting department, please call Nick Biondich at (612) 624-7055.

Acct 1050 INTRODUCTION TO FINANCIAL REPORTING. 5 credits tuition* (includes \$16 special fee): Resident \$438.50; Non-resident \$1241.25. (IDL)

Basic concepts of measurement and valuation that underlie development of financial reports for external users. Financial statement preparation, analysis of alternative valuation approaches, interpretation of financial statement information. **Must be taken A-F.** (Prereq 40 cr completed. Limited to 45)

Ten wk, ★Sec 50, MW, 6-9, BlegH 240

Ten wk, ★Sec 51, TTh, 6-9, BlegH 105

Acct 3001 INTRODUCTION TO MANAGEMENT ACCOUNTING. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20. (IDL)

Management accounting as the main information collection and analysis technology in an organization. Analysis of cost-volume-profit relationships, budgeting and analysis of variances from budgeted performance, issues relating to decentralized organizational design, activity-based costing. **Must be taken A-F.** (Prereq 1050 and at least 90 credits completed or in progress. Limited to 45)

Ten wk, ★Sec 50, MW, 6-8:30, BlegH 140

Acct 3101 INTERMEDIATE FINANCIAL REPORTING. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20. (IDL)

Relationships between economic events and their representation in financial statements aimed at external users. Income determination, revenue recognition, asset valuation, capitalization of corporations, cash flow statements. **Must be taken A-F.** (Prereq 1050 and at least 90 credits completed or in progress. Limited to 25)

Ten wk, ★Sec 50, TTh, 6-8:30, BlegH 420

Acct 5102 ADVANCED REPORTING I. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20; Resident Graduate credit \$526; Non-resident Graduate credit \$1138; Resident Graduate School credit \$934; Non-resident Graduate School credit \$2035.60.

Valuation problems in financial reporting with emphasis on liabilities. Leases, deferred taxes, pensions, other post-retirement benefits, debt restructuring, earnings per share. **Must be taken A-F.** Course meets June 18 through Aug. 4. (Prereq 3101 or 5101. At least 90 credits completed or in progress. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Ten wk, ★Sec 50, MW, 6-8:30, BlegH 420

Acct 5125 AUDITING PRINCIPLES AND PROCEDURES. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20; Resident Graduate credit \$526; Non-resident Graduate credit \$1138; Resident Graduate School credit \$934; Non-resident Graduate School credit \$2035.60.

Auditing financial information systems. Independent audits and internal auditing. Ethics. Legal responsibilities. **Must be taken A-F.** (Prereq 3101 or 5101, and at least 90 cr completed or in progress. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Ten wk, ★Sec 50, TTh, 5:30-8, BlegH 110

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Acct 5135 INCOME TAX ACCOUNTING. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20; Resident Graduate credit \$526; Non-resident Graduate credit \$1138; Resident Graduate School credit \$934; Non-resident Graduate School credit \$2035.60. (IDL)

Principles of federal income taxation of various taxpaying entities. **Must be taken A-F.** *Course meets June 18 through Aug. 4.* (Prereq 1050 and at least 90 cr completed or in progress. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Ten wk, ★Sec 50, MW, 5:30-8, BlegH 145

Acct 5160 FINANCIAL STATEMENT ANALYSIS. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20; Resident Graduate credit \$526; Non-resident Graduate credit \$1138; Resident Graduate School credit \$934; Non-resident Graduate School credit \$2035.60.

Interpreting and analyzing financial statements and schedules for investors and other users. **Must be taken A-F.** *Course meets June 17 through August 19.* (Prereq 1050 or MBA 8030 and at least 90 cr completed or in progress; students are encouraged to take 3101 or 5101 prior to enrolling in this course. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Ten wk, ★Sec 50, T, 5:30-9, BlegH 205

Acct 5180 ADVANCED FINANCIAL REPORTING II. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20; Resident Graduate credit \$526; Non-resident Graduate credit \$1138; Resident Graduate School credit \$934; Non-resident Graduate School credit \$2035.60.

Partnerships, business combinations, consolidated financial statements, foreign currency transactions and translations, and reporting issues in governmental accounting. **Must be taken A-F.** (Prereq 3102 or 5102. At least 90 credits completed or in progress. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Ten wk, ★Sec 50, TTh, 5:30-8, BlegH 145

Acct 5271 ACCOUNTING SYSTEMS. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20; Resident Graduate credit \$526; Non-resident Graduate credit \$1138; Resident Graduate School credit \$934; Non-resident Graduate School credit \$2035.60.

Applications of electronic data processing systems in accounting, including modeling, financial planning, auditing, and data security. Analysis and design of accounting information systems. **Must be taken A-F.** *Course meets June 18 through Aug. 4.* (Prereq 5102, 3201. At least 90 credits completed or in progress. Qualified students may register for graduate credit at the University of Minnesota. Limited to 25)

Ten wk, ★Sec 50, MW, 5:30-8, BlegH 205

Afro-American & African Studies (Afro)

(808 Social Science Tower: 624-9847)

College of Liberal Arts

Textbooks for most Afro courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Teirab AshShareef, Assistant Professor
 Rose Brewer, Associate Professor
 Arlindo G. Chilundo, Lecturer
 Victoria Coifman, Assistant Professor
 Keith Ellison, Teaching Specialist
 Caesar Farah, Professor
 Gayle Foreman, Lecturer
 Aggrey J. Otiemo, Teaching Specialist
 Charles A. Pike, Assistant Professor

(See also CSch 0116 Journey Up the Nile: Art and Archaeology of Ancient Nubia in the Compleat Scholar noncredit section of this bulletin)

Afro 3654 AFRICAN CINEMA. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Films by African filmmakers. Aesthetic, theoretical, and sociopolitical issues will be explored through class screenings and critical readings. Emphasis on films from sub-Saharan Africa. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, TTh, 6:20-9:50, BlegH 260, Pike

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Afro 3910 TOPICS IN AFRO-AMERICAN/AFRICAN STUDIES: THE AFRICAN-AMERICAN CHILD: A Comprehensive Approach. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Designed for those who are involved in or plan to be involved in the important task of helping African-American children develop emotionally healthy and psychologically secure in a culturally diverse society. The course will focus on the specific research conducted by African-American psychologists and child development specialists through lectures, films, guest speakers, and readings. (No prereq. Meets concurrently with 5910)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 245, Foreman

Afro 3910 AFRO-AMERICANS AND THE LAW. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

A critical/theoretical look at the law and its affects on African Americans in the United States. (No prereq. Limited to 30)

Second 5 wk, ★Sec 51, T, 6:20-8:50, BlegH 245, Ellison

Afro 5910 TOPICS IN AFRO-AMERICAN/AFRICAN STUDIES: THE AFRICAN-AMERICAN CHILD: A Comprehensive Approach. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

See course description for Afro 3910. (No prereq. Meets concurrently with 3910. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 245, Foreman

American Indian Studies (AmIn)

(102 Scott Hall: 624-1338)
College of Liberal Arts

Textbooks for most AmIn courses are available at University of Minnesota Bookstore—East Bank (625-6000)

AmIn 1771 INTRODUCTION TO AMERICAN INDIAN STUDIES. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Content, methods, and objectives of American Indian studies. Images of the American Indian, persistence and change in American Indian communities, linguistics and literature, and tribal ethnohistories. (No prereq. Limited to 35)

Second 5 wk, ★Sec 50, MW, 6-8:30, ScottH 4

AmIn 3116 AMERICAN INDIAN LITERATURE. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Comparative studies of oral traditions and modern tribal literature. (No prereq. Limited to 35)

First 5 wk, ★Sec 50, TTh, 6-8:30, ScottH 4

American Studies (AmSt)

(104 Scott Hall: 624-4190)
College of Liberal Arts

Textbooks for most AmSt courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

AmSt 1001 AMERICAN CULTURES. 4 credits, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Interdisciplinary study of selected class, gender, public policy, and social issues by comparing the cultures and artistic expression of at least three of the following groups: European American, African American, American Indian, Chicano/Latino, and Asian American. To mid-19th century. (No prereq)

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 135

(See also CSch 0318 Gangsters in American Culture in the Compleat Scholar section of this bulletin)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

AmSt 1003 AMERICAN CULTURES. 4 credits, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Interdisciplinary study of selected class, gender, public policy, and social issues by comparing the cultures and artistic expression of at least three of the following groups: European American, African American, American Indian, Chicano/Latino, and Asian American. Mid-19th century to the 1920s. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 225

AmSt 3111 CREATIVE AMERICANS AND THEIR WORLDS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

The cultural life of Americans through study of works and lives of selected artists in several media, including painting, literature, architecture, music, and drama. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, TTh, 6-8:30, BlegH 135

(See also CSch 0109 The Beat Generation in the Complete Scholar noncredit section of this bulletin)

AmSt 3113 AMERICAN CULTURAL DIVERSITY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

The cultural expression, values, and lifestyles of America's many peoples, including minority and majority cultures. *Meets CLA Cultural Pluralism requirement.* (No prereq. Limited to 60)

Second 5 wk, ★Sec 50, TTh, 6-8:30, BlegH 140

Ancient Near Eastern (ANE)

(330 Folwell Hall: 625-5353)

College of Liberal Arts

(Classical & Near Eastern Studies)

Textbooks for most ANE courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Jonathan Paradise, Associate Professor

ANE 1001 THE BIBLE: NARRATIVE TEXTS. 4 credits, §3001, §RelS3201, tuition*: Resident \$338; Non-resident \$980.20.

Survey covers the majority of the narratives in the Hebrew Bible. Through lecture and discussion we will discover the literary techniques that form the art of the biblical narrative as well as the major ideas the biblical writers were concerned with. No knowledge of Hebrew is required. (No prereq. Meets concurrently with 3001, RelS 3201)

Second 5 wk, Sec 50, MW, 6:20-8:50, FolH 218, Paradise

ANE 3001 THE BIBLE: NARRATIVE TEXTS. 4 credits, §1001, §RelS3201, tuition*: Resident \$382; Non-resident \$1107.80.

See course description for ANE 1001. (No prereq. Meets concurrently with 1001, RelS 3201)

Second 5 wk, Sec 50, MW, 6:20-8:50, FolH 218, Paradise

Anthropology (Anth)

(215 Ford Hall: 625-3400)

College of Liberal Arts

Textbooks for most Anth courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Luther Gerlach, Professor

Anth 1101 HUMAN ORIGINS. 5 credits, §1001, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Introduction to world prehistory as investigated by archaeologists; the basic methods and concepts employed by archaeologists in the study of prehistoric human biological and cultural development. (No prereq. Limited to 25)

Second 5 wk, ★Sec 50, TTh, 6-9:20, FordH 285

Anth 1102 UNDERSTANDING CULTURES. 5 credits, §1002, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Varieties and range of human behavior as revealed through comparative study of cultures in all parts of the world. (No prereq)

First 5 wk, Sec 50, MW, 6-9:20, FordH 285, Gerlach

Applied Business (ABus)

See Business, Applied

Arabic (Arab)

(808 Social Science Tower: 624-9847)

College of Liberal Arts

(Afro-American & African Studies)

Textbooks for most Arab courses are available at University of Minnesota Bookstore—West Bank (625-3000)

No Arab courses offered through Extension Classes summer 1997

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Architecture (Arch)

(110 Architecture: 624-7866)

College of Architecture and Landscape Architecture

Textbooks for most Arch courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Peter Carlsen, Lecturer

Jim Dozier, Lecturer

Dennis Grebner, Professor

Arnold Lucke, Lecturer

Garth Rockcastle, Professor

(See also the *Compleat Scholar noncredit section of this bulletin*)

Noncredit Workshops

Arch 0013 EXPLORING ARCHITECTURE: A CAREER DISCOVERY WORKSHOP. No credit, tuition*: \$253.50.

Intended for those who are interested in exploring architecture as a possible career path. The course is organized as a seminar workshop, meeting evenings, for a two-week period. Instruction will be an interactive hands-on series of experiences, within a variety of areas of vital interest to the discipline of architecture, including history, theory, skills, and practices. **Must be taken S-N.** (No prereq)

First 5 wk, Sec 50, TTh, 6:30-9:30, Arch 40, Carlsen

Arch 0014 CONSTRUCTION PROCESS: A JOB SITE VISITATION SEMINAR. No credit, tuition*: \$169.

Intended for architectural professionals interested in acquiring a first-hand knowledge of the construction process and the what and how of the trades role in that process. There will be 10 meetings (4 hours each) during which scheduled and coordinated visits will be made to various construction sites to observe and discuss all of the major phases, processes, and techniques from beginning to end. Offered in cooperation with the Minnesota Society, American Institute of Architects, and Associated General Contractors. **Must be taken S-N.** (No prereq. Limited to 30)

Spec Term ★Sec 50, W, 8 a.m.-12, July 3-Sept. 4, Arch 55, Lucke. No late fee through June 27.

Credit Courses

Arch 1301 INTRODUCTION TO ARCHITECTURAL DRAWING. 4 credits, \$1010, \$1041, \$LA 1301, tuition* (includes \$30 course fee): Resident \$368; Non-resident \$1010.20.

A beginning drawing course that emphasizes visualization and drawing of form and space in the physical environment. Exploration of basic elements of form using design drawing systems and conventions. Development of skills in visual literacy and expression through drawing. **Must be taken A-F.** Prerequisite for the major. (No prereq. Limited to 32)

Second 5 wk, ★Sec 50, TTh, 6-9, Arch 60

Arch 3311 DRAWING FOR DESIGN. 4 credits, \$LA 3311, tuition* (includes \$30 course fee): Resident \$428; Non-resident \$1184.20.

Explores drawing processes as modes of perception, cognition, and reflection. Representational aspects of drawing systems and conventions, develops understanding of space, light, and order. **Must be taken A-F.** Required for the major. (Prereq Arch or BED major, Arch 1301 or LA 1301 or #. Limited to 25)

First 5 wk, ★Sec 50, MW, 6-9, Arch 15, Grebner

Arch 5351 AUTO CAD I. 4 credits, tuition* (includes \$50 course fee): Resident \$448; Non-resident \$1204.20.

Basic concepts, tools, and techniques of computer-aided drawing. Introduction to AutoCAD Current Release. Each class session includes brief demonstration and discussion followed by individual hands-on training. Students complete a drawing project of intermediate complexity. No prior computing experience is necessary. (No prereq. May not be taken for graduate credit at the University of Minnesota. Limited to 12)

First 5 wk, ★Sec 50, TTh, 6-9:10, Arch 140, Arch Computer Lab, Dozier

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Arch 5352 AUTO CAD II. 4 credits, tuition* (includes \$50 course fee); Resident \$448; Non-resident \$1204.20.

Intermediate and advanced computer-aided drawing using AutoCAD Current Release. Strategies and techniques for producing dimensioned and annotated drawings suitable for plotting, and an introduction to three-dimensional drawing capabilities. Use of dimension variables, attributes, blocks, symbols, and the creation of customized menus. Each class session includes brief demonstration and discussion followed by individual hands-on training in drawing examples of architectural construction documents. (Prereq AutoCAD I or previous experience with AutoCAD. May not be taken for graduate credit at the University of Minnesota. Limited to 12)

Second 5 wk, ★Sec 50, TTh, 6-9:10, Arch 140, Arch Computer Lab, Dozier

Arch 5970 DIRECTED STUDY. Credits arranged. Each credit: Resident \$99.50; Non-resident \$288.50; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Independent study in Architecture. Subject matter arranged. Areas of study useful to individual program objectives not available in regular course offerings. *For complete information, contact Prof. Garth Rockcastle, 110 Architecture, University of Minnesota, Minneapolis, MN 55455. Telephone 624-9550. (Prereq written #. Qualified students may register for graduate credit at the University of Minnesota)*

Art (Arts)

(208 Art Building: 625-8096)

College of Liberal Arts

Textbooks for most Arts courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Karl Bethke, Professor
David Feinberg, Associate Professor
Curtis Hoard, Professor
Tom Lane, Associate Professor
Susan Lucey, Associate Professor
Clarence Morgan, Professor
Malcom Myers, Professor Emeritus
Herman Rowan, Professor Emeritus

For information about the Split Rock Arts Program, see page 20.

(See also *Art and Architecture* in the Compleat Scholar noncredit section of this bulletin)

RESTRICTIONS IN ART CLASSES

1. Registration in any art class after the first class meeting must be accompanied by the instructor's written permission.

2. Students who do not attend the first class session may lose their place in the course (at the instructor's discretion). A student who cannot attend the first class should call the instructor in advance or call 625-8096 to make arrangements to hold a place in class. A student who does not make these arrangements and has to cancel the course must obtain a written verification of non-attendance (from the instructor) to be given a 100% tuition refund. Student must turn in this verification at 101 Wesbrook Hall by the end of the second week of the term.

Students must be on time for the first class meeting. If a student is more than 15 minutes late, the instructor can assign his or her place in the course to another student, and the student must cancel the class to receive a refund (see instructions in paragraph above).

Most art courses require the student to spend a minimum of one hour per week in the studio for each hour spent in class.

Because Extension funds its own classes, and since the subject matter of studio courses requires that enrollments be limited to small numbers of students, it has become necessary for Extension Classes to add a \$10 special fee to most classes in order for the classes to be held.

Some studio courses require additional fees which cover part of the cost of expendable materials, models, breakage, and special facilities. Use of a locker for the quarter is included in the course fee for sculpture and ceramics classes. Some courses may also require the purchase of special tools or supplies not included in the tuition of course fees printed below with each offering.

Arts 1101 BASIC DRAWING. 4 credits, tuition* (includes \$10 special fee and \$20 course fee): Resident \$368; Non-resident \$1010.20.

An introduction to basic drawing methods; exploration of contemporary and traditional methods, various drawing media, work from nature and still life. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, TTh, 6-9:45, ArtB 141, Rowan
Second 5 wk, ★Sec 51, TTh, 6-9:45, ArtB 141, Feinberg

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

ArtS 1102 DRAWING. 4 credits, tuition* (includes \$10 special fee and \$20 course fee): Resident \$368; Non-resident \$1010.20.

Work from life and nature. Introduction to color and pictorial structure. (Prereq 1101. See **Restrictions**, page xxx. Limited to 20)

Second 5 wk, ★Sec 50, MW, 6-9:45, ArtB 150

(See also the Compleat Scholar noncredit section of this bulletin)

ArtS 1301 BASIC SCULPTURE. 4 credits, tuition* (includes \$10 special fee and \$65 course fee): Resident \$413; Non-resident \$1055.20.

Beginning course in metal construction; intensive study of structure with emphasis on form and space. (No prereq. See **Restrictions**, page 17. Limited to 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 65, Lucey

ArtS 1602 ELECTRONIC ART. 4 credits, tuition* (includes \$10 special fee and \$40 course fee): Resident \$388; Non-resident \$1030.20.

Hands-on introduction to the use of computer technology and various software for the purpose of creating visual images. (No prereq. Limited to 19)

First 5 wk, ★Sec 50, MW, 6-10, AndH 250
(See also digital imaging courses in the Compleat Scholar noncredit section of this bulletin)

ArtS 1701 INTRODUCTION TO PHOTO MEDIUM. 4 credits, tuition* (includes \$10 special fee and \$40 course fee): Resident \$388; Non-resident \$1030.20.

A course in black and white photography for beginners with little or no experience. Lectures on contemporary and historical use of photography. The course will cover techniques in the use of the camera, film development and enlargements. Emphasis on the creative process. Student must have camera. Any 35mm camera is acceptable. If you wish to use a camera other than 35mm and are uncertain whether it will be acceptable, you may check with the Art Department, 625-9532. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 120

First 5 wk, ★Sec 51, TTh, 6-9:45, ArtB 120

(See also photography courses in the Compleat Scholar noncredit section of this bulletin)

ArtS 1811 CERAMICS. 4 credits, tuition* (includes \$10 special fee and \$65 course fee): Resident \$413; Non-resident \$1055.20.

Introduction to handbuilding techniques in clay for individual creative expression. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 10, Hoard

ArtS 1812 CERAMICS. 4 credits, tuition* (includes \$10 special fee and \$65 course fee): Resident \$413; Non-resident \$1055.20.

Introduction to wheel throwing techniques for individual creative expression. (No prereq. Limited to 20)

Second 5 wk, ★Sec 50, TTh, 6-9:45, ArtB 10, Lane

ArtS 3105 PAINTING. 4 credits, tuition* (includes \$10 special fee and \$15 course fee): Resident \$407; Non-resident \$1132.80.

Introduction to studio work in painting explores the fundamentals of visual art making via the paint media. Emphasis is on the visual language: volume, texture, color, line, space, light, compositions. Proper attention will focus on concepts and technique and philosophies of painting. (Prereq 1101, 1401, 1404 or #. Meets concurrently with 3120 and 5120. Limited to a combined total of 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 151, Morgan

ArtS 3120 PAINTING. 4 credits (maximum 12 cr), tuition* (includes \$10 special fee and \$15 course fee): Resident \$407; Non-resident \$1132.80.

Continuation of media development and individual problems. (Prereq 1401, 3105. Meets concurrently with 3105 and 5120. Limited to a combined total of 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 151, Morgan

ArtS 3130 WATERCOLOR. 4 credits (maximum 12 cr), tuition* (includes \$10 special fee and \$15 course fee): Resident \$407; Non-resident \$1132.80.

Introduction to transparent watercolor. Figure, still life, landscape, and individual directions. (Prereq 1101, 1404, 1401 or #. Meets concurrently with 5130. See **Restrictions**, page 17. Limited to a combined total of 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 141, Myers

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

ArtS 3602 ELECTRONIC ART. 4 credits (maximum 12 cr), tuition* (includes \$10 special fee and \$40 course fee): Resident \$432; Non-resident \$1157.80. (Prereq 1602. Limited to 19)

First 5 wk, ★Sec 50, TTh, 6-9:45, AndH 250

ArtS 3810 INTERMEDIATE CERAMICS. 4 credits (maximum 12 cr), tuition* (includes \$10 special fee and \$75 course fee): Resident \$467; Non-resident \$1192.80.

Advanced design problems with introduction to glaze and clay experimentation. Emphasis on personal expression. (Prereq 1401, 1811, 1812. Meets concurrently with 5810. Limited to a combined total of 20)

First 5 wk, ★Sec 50, TTh, 6-9:45, ArtB 10, Hoard

ArtS 5120 PROBLEMS IN PAINTING. 4 credits (maximum 16 cr), tuition* (includes \$10 special fee and \$15 course fee): Resident \$407; Non-resident \$1132.80; Resident Graduate credit \$535; Non-resident Graduate credit \$1147; Resident Graduate School credit \$943; Non-resident Graduate School credit \$2044.60.

An advanced course in acrylic and oil painting with emphasis on individual directions as they reflect current and traditional trends in art. (Prereq 12 cr of 3120 or #. See **Restrictions**, page 17. Meets concurrently with 3105 and 3120. Contact the Art Department about graduate credit. Limited to a combined total of 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 151, Morgan

ArtS 5130 WATERCOLOR. 4 credits (maximum 16 cr), tuition* (includes \$10 special fee and \$15 course fee): Resident \$407; Non-resident \$1132.80

Advanced watercolor techniques, aesthetic directions. Continued development of concepts and individual direction. (Prereq 12 cr of 3130 or #. Meets concurrently with 3130. May not be taken for graduate credit. Limited to a combined total of 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 141, Myers

ArtS 5810 CERAMICS. 4 credits (maximum 16 cr), tuition* (includes \$10 special fee and \$85 course fee): Resident \$477; Non-resident \$1202.80; Resident Graduate credit \$605; Non-resident Graduate credit \$1217; Resident Graduate School credit \$1013; Non-resident Graduate School credit \$2114.60.

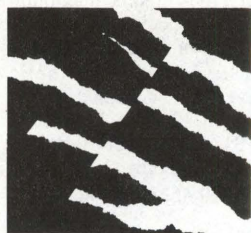
Aesthetic awareness and development; techniques and materials. (Prereq 12 cr of 3810. See **Restrictions**, page 17. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3810. Limited to a combined total of 20)

First 5 wk, ★Sec 50, TTh, 6-9:45, ArtB 10, Hoard

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions



SPLIT ROCK arts program

summer workshops in Minnesota

Forty-four week-long summer intensive workshops in creative writing, visual arts, fine crafts, and creativity development. Held at the University's Duluth campus on the hilltops overlooking Lake Superior and in retreat-style workshops at the Cloquet Forestry Center. Work with nationally renowned artists and writers to enhance your creative potential; design original baskets; design quilts; create sculpture; write poetry, fiction, or nonfiction work; draw and paint; create contemporary bead and fabric art; write children's books; handbuild traditional pottery; learn the art of bookmaking; work with outstanding ethnic artists; and more.

Split Rock is a place of true recreation—refreshment and renewal through experiencing an art form intensively.

Workshops begin each Sunday for five weeks from July 13 through August 16, 1997. On-campus housing and food services are available at reasonable cost. Graduate or undergraduate credit is available, or you may take any workshop for no credit or grade.

For complete information and your copy of the latest Split Rock Arts Program catalog, call (612) 624-6800; FAX (612) 625-2568; write Split Rock Arts Program, 306 Westbrook Hall, 77 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455; or e-mail srsp@mail.cee.umn.edu

Art History (Arth)

(107 Jones Hall: 624-4500)

College of Liberal Arts

Textbooks for most Arth courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Sheila McNally, Professor of Classical Studies and Art History

(See also *Art and Architecture* in the Compleat Scholar noncredit section of this bulletin)

Arth 3035 MYTHOLOGY IN WESTERN ART.

4 credits, §Clas 3035, tuition* (includes \$5 course fee): Resident \$387; Non-resident \$1112.80.

Selected figures and events from Classical mythology as ancient artists first depicted them, and as they reappeared in later Western art. (No prereq. Meets concurrently with Clas 3035)

First 5 wk, Sec 50, TTh, 6:20-8:50, FolH 306, McNally

Biology (Biol)

(223 Snyder Hall: 624-9717)

College of Biological Sciences

Textbooks for most Biol courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall for Minneapolis campus classes(625-6000); at University of Minnesota Bookstore—St. Paul (624-9200) for classes on that campus

Richard W. Peifer, Education Specialist

(See also *Natural and Physical Sciences* in the Compleat Scholar noncredit section of this bulletin)

Biol 1009 GENERAL BIOLOGY. 5 credits, tuition* (includes \$10 course fee): Resident \$432.50; Non-resident \$1235.25. (IDL)

An introduction to the principles of biology. The cell, metabolism, heredity, reproduction, ecology and evolution. *Lectures meet concurrently. Students must attend lectures on both Mondays and Tuesdays as well as laboratory sessions on both Mondays and Tuesdays.* (Prereq: for those majors that require a comprehensive survey of biology in a single quarter. High school chemistry strongly recommended. Pre-biology majors see Biol 1201-1202-1203; non-science majors see 1201. Limited to 24)

Ten wk, ★Sec 50, Lect MT, 6-7:15, MoosT 2-650, Peifer; Lab MT, 7:30-9:15, KoltH S167

Ten wk, ★Sec 51, Lect MT, 6-7:15, MoosT 2-650, Peifer; Lab MT, 7:30-9:15, KoltH S170

Ten wk, ★Sec 52, Lect MT, 6-7:15, MoosT 2-650, Peifer; Lab MT, 7:30-9:15, KoltH S177

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Business Administration (BA)

(290 Hubert H. Humphrey Center: 624-3313)
Carlson School of Management

Textbooks for most BA courses are available at University of Minnesota Bookstore—West Bank (625-3000)

BA 1550 BUSINESS STATISTICS: DATA SOURCES, PRESENTATION, AND ANALYSIS (formerly OMS 1020, Data Analysis and Statistical Inference for Managers). 4 credits, §MSci 1020, §OMS 1020, tuition* (includes \$16 special fee): Resident \$354; Non-resident \$996.20. Provides students with an understanding of and ability to apply exploratory data analysis, basic inferential procedures, statistical sampling and design, and regression and time series analysis. Primary objectives are to improve students' statistical thinking capabilities and to indicate how these abilities lead to improved decision making. (Prereq MSci 1010 or IDSc 1010, Math 1111; Math 1131 recommended. Limited to 45)

Ten wk, ★Sec 50, Lect W, 5:30-8:15; Lab W, 8:15-9:15, BlegH 220

(See also Operations and Management Science)

Business, Applied (ABus)

(306 Wesbrook Hall: 626-1348)

University College

Textbooks for most ABus courses are available at the Inver Hills and North Hennepin Community College bookstores for courses taught on those campuses. Textbooks for most ABus courses taught on the St. Paul campus are available at University of Minnesota Bookstore—St. Paul (624-9200).

University College offers the Bachelor of Applied Business degree in cooperation with Inver Hills Community College. See the Degrees and Certificates section of the 1996-97 Extension Classes Bulletin (pages 482-483) for admission and curriculum requirements. Interested students should discuss plans with an adviser in University College Counseling at (612) 625-2500.

Priority in assignment of space in class is given to students admitted to the B.A.B. degree program. Students not admitted to the program may register on a space-available basis. Check with a UC adviser on applicability of credits in B.A.B. courses if you are working on another University of Minnesota degree.

Lee Wickstrom, Ph.D., Operations Management Department, Carlson School of Management

Call 626-1348 for schedule information about the B.A.B. program and courses listed below.

ABus 3012 PROBLEM SOLVING IN COMPLEX ORGANIZATIONS. 4 credits, tuition*: Resident \$398; Nonresident \$1154.20.

An open systems perspective is developed. Emphasis is placed on the importance of analyzing root causes, and the effects of problems and solutions across boundaries in the organization. Process analysis is introduced as a tool for problem solving. Commonly used problem-solving frameworks or processes are taught. Techniques for conducting root cause analyses, expanding alternatives, predicting consequences, and making choices are studied and applied. (No prereq)

Spec Term, Sec 50, Sa, 8 a.m.-4, July 12, Aug. 9, EBCEC 156, StP Campus; M, 6-9, July 14, 21, 28, Aug. 4, VoTech R285, StP Campus. *No late fee through July 7.*

ABus 3501 HOW TO WRITE A BUSINESS PLAN AND FINANCIAL PROPOSAL. 4 credits, tuition* plus \$10 course fee. Total: Resident \$408; Nonresident \$1164.20.

This course systematically leads students through preliminary exercises and drafts to produce a completed business plan and accompanying financial plan or management summary. They learn how to articulate the mission, goals, and objectives of their business; conduct market and competitive analyses; formulate marketing strategies; determine staffing needs and organizational structures; conduct strategic planning; and project future growth and expansion. The optional course software (available for \$5 on the first night of class, checks only, made out to the University of Minnesota) allows students to produce and submit their work entirely on disk. Appropriate for students who seek to expand an existing business or who want to start a new business. *There are 10 assignments, no exams. Course fee covers study guide materials.* (No prereq)

Spec Term, Sec 50, W, 6-9:30, July 9, 23, CCE 133, NHCC; Aug. 6, 20, CCE 166, NHCC. *No late fee through July 2.*

ABus 3999 PRACTICUM. 4 credits, tuition*: Resident \$398; Nonresident \$1154.20.

Second 5 wk, ★Sec 50, Arr

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Business, Government, and Society (BGS)

(835 Management/Economics: 624-5232)
Carlson School of Management

Textbooks for most BGS courses are available at University of Minnesota Bookstore—West Bank (625-3000)

BGS 3004 INTERNATIONAL BUSINESS. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20. (IDL)

World business with emphasis on the global economy, international concepts, global business structures, comparative cultures and environments, global business strategies, multi-national corporations and technology, personnel and operations in the host nations. Resource (including energy) questions in their global contexts: quantities, demands, distribution of resources. **May not be taken S-N.** (Prereq at least 90 cr completed or in progress. Limited to 45)

Second 5 wk, ★Sec 50, TTh, 5:45-8:45, BlegH 250

Business Law (BLaw)

(675 Management/Economics: 624-9358)
Carlson School of Management

Textbooks for most BLaw courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Donald G. Campbell, Lecturer

BLaw 3058 INTRODUCTION TO LAW, THE LAW OF CONTRACTS AND SALES CONTRACTS. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20. (IDL)

Study of the origin of law, its place in and effect upon society; the history and development of law; the system of courts; and legal procedure. An extensive study of the law of contracts as the basic law affecting business transactions; and the law affecting the sales of goods contracts. **May not be taken S-N.** (Prereq Econ 1101 or equivalent and at least 90 credits completed or in progress. Limited to 50)

First 5 wk, ★Sec 50, MW, 6-8:30, BlegH 120, Campbell

Second 5 wk, ★Sec 51, MW, 6-8:30, BlegH 120, Campbell

Chicano Studies (Chic)

(102 Scott Hall: 624-6309)

College of Liberal Arts

Textbooks for most Chic courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Randy Rodriguez, Teaching Specialist

No Chic courses offered through Extension Classes summer 1997

Child Psychology (CPsy)

(106 Child Development: 624-1891)

College of Education and Human Development
Institute of Child Development

Textbooks for most CPsy courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No CPsy courses offered through Extension Classes summer 1997

Classical Civilization (ClCv)

(300 Folwell Hall: 625-7565)

College of Liberal Arts

(Classical & Near Eastern Studies)

Textbooks for most ClCv courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No ClCv courses offered through Extension Classes summer 1997

Classics (Clas)

(330 Folwell Hall: 625-5353)

College of Liberal Arts

(Classical & Near Eastern Studies)

Textbooks for most Clas courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Jackson Hershbell, Professor
Sheila McNally, Professor

Clas 1042 GREEK AND ROMAN MYTHOLOGY. 4 credits, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

The heroes, gods, and goddesses of ancient Greece and Rome. Stories of the myths and the stories behind the myths. (No prereq)

Second 5 wk, Sec 50, MW, 6:20-8:50, FolH 306, Hershbell

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Clas 1043 INTRODUCTION TO GREEK AND ROMAN ARCHAEOLOGY. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Role that material culture, including art and architecture, plays in forming our picture of the classical past. Relationship between archaeology and other disciplines dealing with the past. Selected examples used to consider motives and methods of research and how material culture has been used by archaeologist, their patrons, and the public. (No prereq)

First 5 wk, Sec 50, MW, 6:20-8:50, FoIH 306, McNally

Clas 3035 MYTHOLOGY IN WESTERN ART. 4 credits, §ArH 3035, tuition* (includes \$5 course fee): Resident \$387; Non-resident \$1112.80.

Selected figures and events from Classical mythology as ancient artists first depicted them, and as they reappeared in later Western art. (No prereq. Meets concurrently with ArH 3035)

First 5 wk, Sec 50, TTh, 6:20-8:50, FoIH 306, McNally

Communication Disorders (CDis)

(115 Shevlin Hall: 624-3322)

College of Liberal Arts

Textbooks for most CDIs courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No CDIs courses offered through Extension Classes summer 1997

The Compleat Scholar

(See page 66)

Composition and Communication (Comp)

(306 Lind Hall: 625-2888)

College of Liberal Arts

(See also writing courses in English, Rhetoric, and the Compleat Scholar)

Textbooks for most Comp courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Attendance—You must attend the first class meeting in order to keep your place in the class, unless you obtain approval from the instructor. To register in a composition course after the first day of class, consent of instructor is required.

Textbooks—Because different instructors require different texts, even for different sections of the same course, students should attend class before buying books for Composition courses.

Comp 1011 WRITING PRACTICE I. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Provides guided practice in solving writers' problems through recitation, in-class workshops, and individual conferences. Writing assignments focus on defining purpose, organizing and developing content, analyzing audiences, drafting the whole essay and its parts, and revising and editing so as to master the fundamentals of expository structure and style. (No prereq. Limited to 25)

The Writing Practice requirement is fulfilled by successful completion of Comp 1011, 1014 or 1015. Students whose work does not meet an acceptable standard in one of these classes will receive a continuation grade ("X"), and must take Comp 1027 to complete the requirement. Comp 1027 is taught every quarter during the academic year.

Ten wk, ★Sec 50, T, 6-8:50, KoltH S133

Ten wk, ★Sec 51, W, 6-8:50, KoltH S133

Comp 3014 WRITING IN THE SOCIAL SCIENCES. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

Emphasizes writing as a way to communicate knowledge about individual and collective human behavior. Multidisciplinary perspectives on common social issues, description and analysis of quantitative data. Assignments may include the literature review, research proposal, case study, and theoretical argument. (Prereq jr standing, the Writing Practice requirement, or equivalent. Limited to 20)

First 5 wk, ★Sec 50, MW, 6-8:30, KoltH S134

First 5 wk, ★Sec 51, MW, 6-8:30, KoltH S135

Ten wk, ★Sec 52, T, 6-8:30, BlegH 120

Ten wk, ★Sec 53, T, 6-8:30, KoltH S134

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Comp 3022 CRITICAL READING AND WRITING FOR MANAGEMENT. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

Strategies and conventions for writing in management and related fields. Improvement of communication skills through the incorporation of narrative, descriptive, analytical and persuasive techniques into writing on current business topics, with an emphasis on critical reading, thinking, and writing. Strategies for communicating among varied audiences in business settings. This course is the first of two courses required by the Carlson School of Management. It does not fulfill the upper-division composition requirement as defined by the College of Liberal Arts. (Prereq the Writing Practice requirement or equivalent. Limited to 20)

First 5 wk, ★Sec 50, TTh, 6-8:30, BlegH 250

First 5 wk, ★Sec 51, TTh, 6-8:30, KoltH S135

Comp 3027 ADVANCED EXPOSITORY WRITING. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Designed for already competent writers, this course focuses on the production of polished writing within and beyond the university setting. Teaches effective argumentation through critical reading and awareness of context and audience. (Prereq jr standing, the Writing Practice requirement or equivalent. Limited to 20)

Ten wk, ★Sec 50, W, 6-8:30, BuH 123

Ten wk, ★Sec 51, W, 6-8:30, BuH 125

Comp 3031 TECHNICAL WRITING FOR ENGINEERS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

Presenting technical information accurately and clearly with attention to the rhetorical and organizational contexts of the writing. Analysis of writing situations, style and form of technical reports, and collaborative written and spoken presentations. (Prereq jr standing, the Writing Practice requirement, or equivalent. Limited to 20)

First 5 wk, ★Sec 50, TTh, 6-8:30, FoH 208

First 5 wk, ★Sec 51, TTh, 6-8:30, BuH 120

First 5 wk, ★Sec 52, TTh, 6-8:30, SmithH 121

Ten wk, ★Sec 53, T, 6-8:30, WullH 140

Ten wk, ★Sec 54, W, 6-8:30, ApH 103

Comp 3032 PREPROFESSIONAL WRITING FOR BUSINESS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

Writing for the wide variety of situations and audiences found in business. Form and style of business writing in collaborative and individual assignments. Assignments and practical examples tied as much as possible to students' major fields. This is the second of two courses required by the Carlson School of Management. (Prereq jr standing, the Writing Practice requirement or equivalent. Limited to 20)

First 5 wk, ★Sec 50, MW, 6-8:30, BlegH 130

Ten wk, ★Sec 51, W, 6-8:30, BlegH 150

Comp 3033 WRITING FOR THE HEALTH SCIENCES. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Addresses the writing needs of students from the diverse fields of the Health Sciences. Primary emphasis on practicing and achieving verbal clarity in a variety of situations ranging from precise description of a clinical procedure to balanced discussion of ethical contexts. (Prereq completion of the Writing Practice requirement or equivalent. Limited to 20)

First 5 wk, ★Sec 50, TTh, 6-8:30, WullH 220

Ten wk, ★Sec 51, W, 6-8:30, WullH 220

Computer Science (CSci)

(4-192 EE/CSci; 625-4002)

Institute of Technology

Textbooks for most CSci courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

For information about the Bachelor of Information Networking degree offered through University College in conjunction with North Hennepin Community College (NHCC), see the Degrees and Certificates section of the current 1996-97 Extension Classes Bulletin, pages 481-482.

Students are encouraged to pick up the curriculum guide in the Computer Science office.

Institute of Technology Computer Fee

A computer fee of \$100 a quarter is charged to most students in the Institute of Technology (IT) and some students in other colleges. The fee will be assessed at registration to the following groups of students:

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

- All IT upper division, UNITE, and adult special students who are required to pay the student services fee;
- Upper division College of Liberal Arts students majoring in astronomy, chemistry, computer science, geology, mathematics, or physics who are required to pay the student services fee;
- All graduate students in IT graduate programs taking one or more courses who are required to pay the student services fee, except those who have completed 36 credits in graduate school exclusive of thesis credits. (These programs are aerospace engineering, astrophysics, biomedical engineering, chemical engineering, chemical physics, chemistry, civil engineering, computer and information sciences, control science and dynamical systems, electrical engineering, fluid mechanics, geological engineering, geology, geophysics, industrial engineering, materials science and engineering, mathematics, mechanical engineering, mechanics, mineral engineering, and physics), and
- Students (including those in other colleges) who are taking one or more courses that *require use of the IT public labs*. Most of these courses are indicated in the course sections of this bulletin.

IT undergraduate or graduate students who have not been required to pay the fee may sign up for a Unix account in the computer lab. They will then be billed the \$100 fee through Student Accounts Receivable.

ATTENDANCE—Students absent from the first day of classes in any Computer Science course may lose their place in the course unless they have contacted their instructor prior to the first class meeting.

CSci 3101 AN INTRODUCTION TO COMPUTER APPLICATIONS FOR SCIENTISTS AND ENGINEERS. 4 credits, §1100-1101, tuition*: Resident \$398; Non-resident \$1154.20. *This course requires access to the IT Computer Lab. If you have not already paid the \$100 quarterly computer fee, please include the additional amount with your tuition.*

Algorithm development and the principles of computer programming using the Fortran language, emphasizing numerical methods for science and engineering applications. Integral open laboratory. (Prereq 1 qtr calculus. Limited to 60)

First 5 wk, ★Sec 50, MW, 6-9, EE/CSci 3115

CSci 3113 INTRODUCTION TO PROGRAMMING IN C. 4 credits, §1100-1101, tuition*: Resident \$398; Non-resident \$1154.20. *This course requires access to the IT Computer Lab. If you have not already paid the \$100 quarterly computer fee, please include the additional amount with your tuition.*

Students use the C language to write several programs that illustrate flow control, basic data types (array, record, pointer), and program structuring. Prepares students for more advanced courses in data structures and algorithms. (Prereq precalculus or #, not for credit after taking 3121, 3321, or 5113. Limited to 60)

First 5 wk, ★Sec 50, TTh, 6-9, EE/CSci 3115

Second 5 wk, ★Sec 51, MW, 6-9, EE/CSci 3115

Continuing Education for Women (CEW)

(See page 116)

Cultural Studies and Comparative Literature (CSCL)

(350 Folwell Hall: 624-8099)

College of Liberal Arts

Textbooks for most CSCL courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Jeanine Ferguson, Lecturer
Steve Macek, Lecturer

CSCL 3910 TOPICS: HOLLYWOOD TEEN FILMS OF THE '50S AND '60S. 4 credits, tuition* (includes \$15 course fee): Resident \$397; Non-resident \$1122.80.

Hollywood teen films of the '50s and '60s have established some of the most powerful icons in American culture: the surfer-boy, the beach bimbo, and the teenage rebel. Study of the role of cinema in the construction of youth as a dangerous social group and within this group, the differentiation between "boys and girls." Includes such classics as *Beach Blanket Bingo*, *Beach Party*, and *Rebel Without a Cause*. (No prereq)

First 5 wk, ★Sec 50, TTh, 6-8:30, FolH 138, Ferguson

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

CSCL 3910 TOPICS: FILM AND THE CITY. 4 credits, tuition* (includes \$15 course fee): Resident \$397; Non-resident \$1122.80.

Film is the quintessential urban art form. The exploding metropolis of the early 20th century created a mass audience for the first commercial motion pictures and served as a source of many of early cinema's characteristic themes and settings. This course is a historically grounded look at the treatment of cities and urban life in American and European films from the 1970s to the present. It explores the semiotic and narrative strategies movies have utilized in portraying the economic, social, cultural, and spatial realities of the modern, crisis-ridden capitalist city. It investigates the various ideologies that structure the ways cinematic representations make sense of these realities. Films include Ruttman's *Berlin: Symphonie Einer Großstadt*, Lang's *Metropolis*, Dassin's *Naked City*, Scorsese's *Taxi Driver*, Polanski's *Chinatown*, Byrne's *True Stories*, Kasdan's *Grand Canyon*, Lee's *Do the Right Thing*, Sayles's *City of Hope*, Reggio's *Koyaanisqatsi*, Scott's *Bladerunner*, Allen's *Claiming Open Spaces*, and Kassowitz's *L'Haine*. (No prereq)

Second 5 wk, ★Sec 51, TTh, 6-8:30, FolH 138, Macek

Dance (Dnce)

(106 Norris Hall: 624-5060)

Department of Theatre Arts and Dance
College of Liberal Arts

Textbooks for most Dnce courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Joe Chvala, Teaching Specialist
Mary Harding, Teaching Specialist
Lester Johnson, Teaching Specialist
Julie Kerr-Berry, Teaching Specialist
Paula Mann, Teaching Specialist
Barbara Nordstrom-Loeb, Teaching Specialist
Laurel Regan, Teaching Specialist

It is assumed that the health of adults registering for classes will be equal to the demands of the activities in which they are to participate. Students are required to sign a "health waiver" form on the first day of class.

Dance (Dnce) courses (numbered through 1499) may be taken S-N.

NOTE: Students with questions about Dnce courses should call Zoe Sealy, Extension Classes Dance Coordinator, at 626-7210.

Course sections in the Department of Dance will be offered only if there is sufficient enrollment. Early registration for all courses is strongly encouraged.

Dnce 1011 INTRODUCTION TO MODERN I. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

Introduction to fundamentals of modern dance technique. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, TTh, 5-7, NorrisH 67, Mann

Dnce 1014 INTRODUCTION TO BALLET I. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

Introduction to the fundamentals of classical ballet techniques including barre and center work. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, MW, 5-7, NorrisH 67, Harding

Dnce 1015 INTRODUCTION TO BALLET II. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

Fundamentals of classical ballet including barre, center work, and combinations. (Prereq 1014. Limited to 20)

Second 5 wk, ★Sec 50, MW, 5-7, NorrisH 67, Harding

Dnce 1036 WORLD DANCE TECHNIQUES—AFRO-CARIBBEAN DANCE. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

Afro-Caribbean dance based on Dunham technique, a fusion of African, ballet, and modern dance forms. Fundamental elements of Afro-Caribbean dance through warm-up and across-the-floor combinations of movement. (No prereq. Limited to 30)

First 5 wk, ★Sec 50, MW, 5-7, NorrisH 153, Kerr-Berry

Dnce 1077 BEGINNING TAP I. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

The basics of tap; learning fundamental terms and basic rhythm structures. (No prereq. Limited to 18)

First 5 wk, ★Sec 50, MTWTh, 5-6, PeikG 65, Chvala

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Dnce 1110 DANCE TOPICS: INTRODUCTION TO BARTENIEFF FUNDAMENTALS. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

Bartenieff Fundamentals is a technique that deals with mobilizing the body in its environment and prepares it to perform a wide range of movement possibilities easily, efficiently, and expressively. This body therapy was developed by Irmgard Bartenieff and is an important part of the Laban Movement Analysis system. Students will use experiential exercises, lecture, and discussion to learn the principles of Fundamentals including concepts such as movement initiation, sequencing, weight shift, developmental patterns, and breath support. Bartenieff Fundamental facilitates dynamic alignment, coordination, strength, flexibility, mobility, and kinesthetic awareness as well as reduces physical stress and injuries. (No prereq. Limited to 18)

First 5 wk, ★Sec 50, TTh, 5-6:30, NorrisH 80, Nordstrom-Loeb

Dnce 1110 DANCE TOPICS: BEGINNER JAZZ DANCE. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

The basics of jazz dance and its origins. Movement vocabulary includes American vernacular styles based on the fundamentals of African dance and its strong influence. Emphasis on use of space, musicality, and phrasing. (Prereq 1009 or equivalent. Limited to 25)

First 5 wk, ★Sec 51, TTh, 5-7, NorrisH 153, Johnson

Dnce 1110 DANCE TOPICS: YOGA. 1 credit, tuition* (includes \$30 special fee): Resident \$114.50; Non-resident \$275.05.

Yoga is an ancient Eastern movement tradition which integrates the body, breath, and mental focus through a series of specific movement postures. Regular practice of yoga can facilitate the release of tension and improve alignment and physical health. Yoga also helps to maintain a state of well being, clarity, and calm. (No prereq. Limited to 30)

First 5 wk, ★Sec 52, Th, 7-9, NorrisH 153, Regan

Design, Housing, and Apparel (DHA)

(240 McNeal Hall: 624-9700)
College of Human Ecology

Textbooks for most DHA courses are available at University of Minnesota Bookstore—St. Paul (624-9200)

Brad Hokanson, University College
Coordinator
“Jake” Jacobson, Teaching Assistant
Jean F. Ross, Teaching Specialist

DHA 1328 (formerly Dsgn 1328, 1321, 1528) DESIGN PROCESS: COLOR I. 4 credits, \$Dsgn 1328, 1521, 1528, tuition* (includes \$25 course fee): Resident \$363; Non-resident \$1005.20.

Study of color concepts and their application to design. Students will also be required to purchase supplies for this class which probably will exceed \$125. (Prereq Design, Housing and Apparel major or pre-major, or #. Limited to 20)

Spec Term, ★Sec 50, TTh, 6-9:55, June 24-Aug. 7, McNH 262, StP Campus. *No late fee through June 17*

DHA 1334 INTRODUCTION TO COMPUTER APPLICATIONS FOR THE DESIGNER. 2 credits, tuition* (includes \$25 course fee): Resident \$194; Non-resident \$515.10.

Introduction to the Macintosh computer and basic programs used in visual communications, including desktop publishing, drawing, file management, and options for output. *Basic keyboarding skills required.* **Must be taken A-F.** (Prereq Pre-Dsgn Comm. Limited to 18)

Spec Term, ★Sec 50, W, 6-9:55 and arr, June 25-Aug. 6, McNH 305 (Mac Lab), StP Campus. *No late fee through June 18*

(See also the Complete Scholar noncredit section of this bulletin)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

DHA 5170 SILK PAINTING. 3 credits, tuition* (includes \$50 course fee); Resident \$336.50; Non-resident \$880.85; Resident Graduate credit \$432.50; Non-resident Graduate credit \$891.50; Resident Graduate School credit, \$738.50; Non-resident Graduate School credit \$1564.70.

Techniques used in silk painting and processes for completing hand-painted silks for decorative and apparel uses. Students will explore color, two-dimensional design, and illusions of depth in the execution of two wall hangings or scarves. Concentration of formal design or personal imagery. (No prereq. Qualified students may register for graduate credit at the University of Minnesota)

Spec Term, Sec 50, SaSu, July 26-Aug. 10, 8 a.m.-12, 1-4:30, McNH B9, StP Campus, Ross. *No late fee through July 18*

DHA 5170 SPECIAL TOPICS: HISTORY OF JAPANESE CALLIGRAPHY. 3 credits, tuition* (includes \$50 course fee); Resident \$336.50; Non-resident \$880.85.

Historical analysis of Japanese calligraphy with emphasis on cultural and aesthetic influences on Japanese graphic design. Lecture, class session activities, museum visits, readings, and research project. (No prereq. May not be taken for graduate credit at the University of Minnesota)

Spec Term, Sec 51, F, June 27-Aug. 6, 10 a.m.-2, McNH B3, StP Campus, Jacobson. *No late fee through June 20*

DHA 5211 ISSUES AND TRENDS IN TEXTILES AND APPAREL. 3 credits, §TexC 5211, tuition*: Resident \$286.50; Non-resident \$830.85; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit, \$688.50; Non-resident Graduate School credit \$1514.70.

Needs of textile consumer; protection from deception and hazard; analysis of federal, state, and local legislation; voluntary standards; change mechanisms; business practices; and professional ethics. (No prereq. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, TTh, 11:15 a.m.-1:45, McNH 216, StP Campus

DHA 5384 COMPUTER GRAPHICS, INTERACTIVE MEDIA. 4 credits, tuition* (includes \$25 course fee); Resident \$407; Non-resident \$1132.80; Resident Graduate credit \$535; Non-resident Graduate credit \$1147; Resident Graduate School credit, \$943; Non-resident Graduate School credit \$2044.60.

Solutions to the design process involving interactive and multi-media and computer programs. Students use software to create interactive presentations using Macintosh computers. Software to be used involves hypermedia, scripting, video and sound editing, animation and digital output. *During summer 1997, this course will concentrate on the creation of pages for the World Wide Web. Work will include HTML, scripting, home pages, interactive/VR-based video, and navigation. Students should have a strong understanding of image manipulation programs such as PhotoShop and good basic Mac skills. Experience with programming, animation, and/or video is helpful. Must be taken A-F.* (Prereq 5334 or Rhet 5581, or #. Qualified students may register for graduate credit at the University of Minnesota. Limited to 18)

Spec Term, ★Sec 50, TTh, 6-9:55, June 24-Aug. 7, McNH 305 (PowerMac Lab), StP Campus, Hokanson. *No late fee through June 17*

Early Childhood Studies Program

(Department of Extension Classes, 200 Westbrook Hall: 625-1855)

Department of Extension Classes courses related to Early Childhood Studies can be found in this bulletin listed under Child Psychology and Family Social Science. For information regarding the Early Childhood field, contact UC/CEE Counseling at 625-2500 or the College of Education Student Affairs office at 625-6501.

For Prekindergarten/Nursery School licensure, call Lynn Galle at 624-7009.

East Asian Studies (EAS)

(214 Social Sciences: 624-8543)

College of Liberal Arts
(Area Studies Programs)

Textbooks for most EAS courses are available at University of Minnesota Bookstore—West Bank (625-3000)

E. L. Farmer, Professor of History

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

EAS 3468 PEOPLE'S REPUBLIC OF CHINA: THE COMMUNIST REVOLUTION, 1900 TO PRESENT. 4 credits, §Hist 3468, 5468, tuition*: Resident \$382; Non-resident \$1107.80.

Introduction of Marxism in China, rise of Communist Party, and development of a rural guerilla movement. The career of Mao Tse-tung and developments in People's Republic: the Great Leap, Cultural Revolution, Gang of Four. (No prereq. Meets concurrently with Hist 3468, 5468)
Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 155, Farmer

Economics (Econ)

(1035 Management/Economics: 625-6353)
College of Liberal Arts

Textbooks for most Econ courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Econ 1101 (formerly 1002)-1102 (formerly 1001) PRINCIPLES OF ECONOMICS. 4 credits each offering, if no credit received for any equivalent course, tuition* each offering: Resident \$338; Non-resident \$980.20. (IDL)

Principles underlying economic activity and the way these principles work out through our economic institutions. **1101:** Micro-economics: demand and supply, competition and monopoly, distribution of income. **1102:** Macro-economics: national income, money and banking, economic growth. (No prereq. Econ 1102 may not be taken prior to 1101, but the two may be taken the same evening or the same term in order for the student to progress more rapidly to other courses. Limited to 35)

Ten wk, 1101, ★Sec 50, MW, 6-7:20, BlegH 155
Ten wk, 1101, ★Sec 51, MW, 7:30-8:50, BlegH 155

Ten wk, 1101, ★Sec 52, TTh, 6-7:20, BlegH 215
Ten wk, 1102, ★Sec 53, MW, 7:30-8:50, BlegH 105

Ten wk, 1102, ★Sec 54, TTh, 6-7:20, BlegH 225

Econ 3101 MICROECONOMIC THEORY. 4 credits, §3105 or BGS 3001, tuition*: Resident \$382; Non-resident \$1107.80.

Behavior of households, firms and industries under competitive and monopolistic conditions; factors influencing production, price and other decisions of the firm; applications of the theory. **Must be taken A-F.** (Prereq 1101, 1102 or equivalent, 1 qtr calculus or #. Limited to 35)

Ten wk, ★Sec 50, TTh, 6-7:20, BlegH 235

Educational Psychology (EPsy)

(204 Burton Hall: 624-3543)

College of Education and Human Development

American Sign Language Classes: 245 Peik Hall, telephone (612) 626-9392

Textbooks for most EPsy courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Shirley Egbert, Teaching Specialist
Diane Holte, Associate Education Specialist

Note: American Sign Language courses can be used to complete a second language requirement. Contact UC/CEE Counseling (625-2500) with questions.

EPsy 1601 AMERICAN SIGN LANGUAGE I. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25.

Introduces fundamentals of American Sign Language as a second language. Emphasis is placed on varieties of sign language and sign language practices, questions, commands, and simple sentences. Receptive and Expressive sign vocabulary building are featured. **May be taken S-N.** (No prereq. Limited to 26)

Spec Term, ★Sec 50, MTWThF, June 17-July 2, 1-4:30, EltH N647

Spec Term, ★Sec 51, MTWThF, July 7-22, 8-11:30 a.m., EltH N647

Spec Term, ★Sec 52, MTWThF, July 24-Aug. 8, 8-11:30 a.m., EltH N647

Spec Term, ★Sec 53, MTWThF, Aug. 4-19, 8-11:30 a.m.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

EPsy 1602 AMERICAN SIGN LANGUAGE II.
5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25.

Introduces fundamentals of American Sign Language as a second language beyond the basic level. Emphasis is placed on locatives, classifiers, and temporal and distributional aspects. Receptive and Expressive sign vocabulary building are featured at the conversational level. **May be taken S-N.** (Prereq 1601 or #. Limited to 26)

Spec Term, ★Sec 50, MTWThF, July 7-22, 1-4:30, EltH N647

Spec Term, ★Sec 51, MTWThF July 24-Aug. 8, 1-4:30, EltH N647

EPsy 1603 AMERICAN SIGN LANGUAGE III.
5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25.

Expands on the conversational use of American Sign Language as a second language including grammar, deaf culture, short stories, and narratives. Receptive and Expressive use of ASL will be stressed at the conversational level. **May be taken S-N.** (Prereq 1602 or #. Limited to 26)

Spec Term, ★Sec 50, MTWThF, July 7-22, 8-11:30 a.m.

Spec Term, ★Sec 51, MTWThF, July 24-Aug. 8, 8-11:30 a.m.

EPsy 3601 AMERICAN SIGN LANGUAGE IV.
5 credits, tuition*: Resident \$497.50; Non-resident \$1442.75.

Stresses conversational use of American Sign Language and culturally significant topics relating to the deaf community, complex use of ASL, grammatical features and vocabulary expansion. Comprehension and expression of jokes, dialogues, stories are emphasized. **May be taken S-N.** (Prereq 1603. Limited to 26)

Spec Term, ★Sec 50, MTWThF, July 7-22, 1-4:30

Spec Term, ★Sec 51, MTWThF, July 24-Aug. 8, 1-4:30

EPsy 3602 AMERICAN SIGN LANGUAGE V.
5 credits, tuition*: Resident \$497.50; Non-resident \$1442.75.

Stresses common conversational use of American Sign Language and culturally significant topics relating to the deaf community. Idiomatic use of sign in conversation and expansion of vocabulary are introduced. Comprehension and expression of common conversational topics and idiomatic expressions are emphasized. **May be taken S-N.** (Prereq 3601. Limited to 26)

Spec Term, ★Sec 50, MTWThF, June 17-July 2, 8-11:30 a.m., EltH N647

Spec Term, ★Sec 51, MTWThF, July 24-Aug. 8, 8-11:30 a.m.

English Language and Literature (Engl)

(207 Lind Hall: 625-3363)

College of Liberal Arts

Textbooks for most Engl courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Christopher Anson, Professor
Kent R. Bales, Professor
Michael Dennis Browne, Professor
Thomas Clayton, Professor
Maria Damon, Associate Professor
Genevieve Escure, Professor
M. J. Fitzgerald, Associate Professor
David Haley, Professor
David Luke, Assistant Professor
John Mowitz, Associate Professor
Donald Ross, Professor
Charles Sugnet, Associate Professor
Joel Weinsheimer, Professor

(See other literature courses in the Compleat Scholar noncredit section of this bulletin)

Engl 1005 INTRODUCTION TO LITERATURE. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Understanding and enjoying literature. Readings of novels, short stories, poems, and plays. (No prereq. Limited to 40)

Second 5 wk, ★Sec 50, TTh, 6-8:30, MurH 308

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Engl 1018 INTRODUCTION TO MODERN FICTION. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Critical discussion of and writing about selected modern novels and stories. Works are selected each quarter from authors such as Atwood, Drabble, Cather, Ellison, Hemingway, Joyce, Kingston, Lawrence, Morrison, Murdoch, Silko, Woolf, and others. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, MW, 6-8:30, MurH 308, Ross
Second 5 wk, ★Sec 51, MW, 6-8:30, MurH 308, Weinsheimer

Engl 1591 LITERATURE OF AMERICAN MINORITIES. 4 credits, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Representative works by African American, American Indian, Asian American, and Chicano/Chicana writers. Relevant social factors. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, TTh, 6-8:30, MurH 311
Second 5 wk, ★Sec 51, MW, 6-8:30, AmundH 311

Engl 1595 INTRODUCTION TO "THIRD WORLD" LITERATURES IN ENGLISH. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Overview of work produced in English outside the United States and Britain. Works represent different cultures, but treat concerns from common (post-) colonial legacy: politics of language, psychology of colonization, implication of colonial education, culture as resistance to domination. Typical artists include novelists Chinua Achebe (Nigeria), Tsitsi Dangarembga (Zimbabwe), Fadia Faqir (Palestine), Salman Rushdie (India), filmmaker Kidlat Tahimik (Philippines), and "dub" poets Mutabaruka and Jena Binta Breeze (Jamaica). (No prereq. Limited to 40)

First 5 wk, ★Sec 50, MW, 6-8:30, FordH 120

Engl 1621 INTRODUCTION TO WOMEN WRITERS. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Works by several major women writers writing in English. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, MW, 6-8:30, MurH 311

Engl 3008 TECHNIQUES OF LITERARY STUDY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

Training and practice in the analysis of various literary forms, with a special emphasis on poetry. Use of argument, evidence, and documentation in literary papers; introduction to major developments in contemporary criticism. (No prereq. Limited to 30)

First 5 wk, ★Sec 50, TTh, 6-8:30, FordH 130, Mowitt

Engl 3116 THE RENAISSANCE. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Major and representative works of the Renaissance (1485-1660). Typical authors: More, Sidney, Spenser, Shakespeare, Donne, Milton. (No prereq. Limited to 30)

First 5 wk, ★Sec 50, MW, 6-8:30, FordH 130, Haley

Engl 3242 SHAKESPEARE. 4 credits, \$3243, tuition*: Resident \$382; Non-resident \$1107.80.

Plays from the middle and late periods. Readings include *King Lear*, *Macbeth*, *The Tempest*, and two or three others. (No prereq. Limited to 30)

Second 5 wk, ★Sec 50, MW, 6-8:30, FordH 160, Sugnet

Engl 3854 AMERICAN LITERACY AND CULTURAL DIVERSITY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Links academic study of literacy in the U.S. with service learning through an arrangement with local community service agencies. Students learn about the nature, acquisition, and present state of literacy in the U.S. with special focus on issues of culturally diverse and disadvantaged members of society. Topics include the development of literacy as a function of culture; the nature of dialect communities and their relationship to American schooling; bilingualism and language policy; gender issues; and the politics of language relative to the institution of education. Students must tutor young children or adult GED seekers or nonnative speakers for at least two hours a week at a community service agency. (No prereq. Limited to 30)

First 5 wk, ★Sec 50, TTh, 6-8:30, FordH 160, Anson

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Engl 3910 TOPICS IN ENGLISH AND NORTH AMERICAN LITERATURE: POETRY AS CULTURAL CRITIQUE. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Examines the status of “poetry” in several cultures of the Americas, bringing together techniques of close reading and broad cultural inquiry. Issues such as the ethics and politics of “ethnopoetics” and cross-cultural pollination; the role of poetry in shaping political consciousness (the Negritude movement, for example, or the spate of women’s, gay, ethnic anthologies that came out of the late ‘60s in the U.S.); and poetry as the interface (suture) of dominant and non-dominant cultures. Primarily 20th-century poetry of the English-speaking world (but some texts in translation), poetry theory, and ethnographic texts and historical texts. (Prereq English major status, completion of Comp 3011 or 3012, jr or sr and written Δ. Limited to 15)

Second 5 wk, ★Sec 50, TTh, 6-8:30, FordH 160, Damon

Engl 3961 SENIOR PAPER. 1 credit, tuition*: Resident \$95.50; Non-resident \$276.95.

Required of English majors, usually taken in the senior year. Critical analysis or research or creative writing paper usually in conjunction with Engl 3960 or EngW 3960. **Must be taken S-N.** Students should call the English department at (612) 625-4592 with questions. (Prereq English major, sr, concurrent or previous registration in Engl 3960 or EngW 3960, written Δ)

Second 5 wk, ★Sec 50, Arr

Engl 5152 19TH-CENTURY ENGLISH NOVEL. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Novels by such authors as Scott, Dickens, the Bröntes, Thackeray, Eliot, Hardy. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 40)

First 5 wk, ★Sec 50, TTh, 6-8:30, FordH 285, Luke

Engl 5452 AMERICAN NOVEL. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Late 19th and 20th centuries. Typical authors: James, Dreiser, Cather, Hemingway, Fitzgerald, Faulkner, Ellison, Morrison. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 40)

Second 5 wk, ★Sec 50, MW, 6-8:30, LindH 203, Bales

Engl 5960 TOPICS: SOCIOLINGUISTIC ASPECTS OF BLACK ENGLISH. 4 credits, §Ling 5910, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

A sociolinguistic perspective on black English, its origins, development, and use in the U.S. Participants will explore the connection between black English and Caribbean creoles (including Gullah as spoken in Georgia and South Carolina); the social significance of black English as a community language and marker of identity; major linguistic aspects of the pronunciation and grammar of different varieties of black English; a summary of pedagogical strategies that may help African-American students develop dual linguistic strategies and adapt more easily to the standard-oriented education curriculum and society. (Prereq written permission from the depts. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with Ling 5910. Limited to a combined total of 40)

Spec Term, ★Sec 50, M, Aug. 11, 8:30 a.m.-3; T,

Aug. 12, 8:30 a.m.-2; W, Aug. 13, 8:30 a.m.-2;

Th, Aug. 14, 8:30 a.m.-2; F, Aug. 15, 9 a.m.-12;

M, Aug. 18, 9 a.m.-2; T, Aug. 19, 9 a.m.-2;

Rooms Arr, Escure

English: Creative Writing Program (EngW)

(209 Lind Hall: 625-6366)

College of Liberal Arts

Textbooks for most EngW courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Michael Dennis Browne, Professor
M. J. Fitzgerald, Associate Professor

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

(See also writing courses in Composition and in the Compleat Scholar noncredit section of this bulletin)

EngW 1102 INTRODUCTION TO FICTION WRITING. 4 credits, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Beginning instruction in the art of fiction: characterization, plot, dialogue, and style. Writing exercises to help students generate ideas. Students read and discuss published fiction as well as their own writing. (Prereq EngW 1101 or equivalent. Limited to 25)

Second 5 wk, ★Sec 50, TTh, 6-8:30, LindH 217, Fitzgerald

EngW 1103 BEGINNING POETRY WRITING. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

A workshop for students in the early stages of exploring how to write poetry. Students explore a variety of ways of working and playing at poems; write together in class; read and memorize poems (contemporary, modern, traditional); and open up to the many possibilities of poetry. (Prereq EngW 1101 or equivalent. Limited to 25)

First 5 wk, ★Sec 50, MW, 6-8:30, LindH 203, Browne

English as a Second Language (ESL)

(101 Klaeber Court: 624-1503)

College of Liberal Arts

Textbooks for most ESL courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Placement and Testing Information

Students who register for ESL courses must contact the Minnesota English Center (MEC), at 624-1503 about testing and placement information. Individuals are required to complete one of the following tests in order to participate in the courses: Minnesota Battery of English Language Proficiency (MNBatt), Test of English as a Foreign Language (TOEFL), English Placement Test (EPT), or Michigan English Language Assessment Battery (MELAB). Arrangements for the MNBatt can be made at MEC up to one week prior to enrollment. Information about TOEFL and MELAB is available at MEC, and registration must be completed several weeks prior to enrollment. *Attach your score/placement form to your registration form when you register for class.*

ESL 0326 DEVELOPING FLUENCY IN ENGLISH AS A SECOND LANGUAGE. No credit, tuition* (includes \$5 course fee): \$427.50.

An advanced course for non-native speakers who want to improve their communication skills for social, academic, and professional purposes; emphasis is placed on listening and speaking; content is drawn from the mass media. **Must be taken S-N.** (Prereq satisfactory score on MBatt or TOEFL and written permission. Limited to 15)

Ten wk, ★Sec 50, TTh, 6:20-8:50, KoltH S139

ESL 0343 ADVANCED ACADEMIC WRITING. No credit, tuition* (includes \$5 course fee): \$427.50.

An advanced writing course for graduate students who are non-native speakers of English; introduction to the use of the library system and to types of writing required in graduate school courses; designed to improve skills in developing and organizing ideas, drafting, revising and editing papers, and writing essay exams. **Must be taken S-N.** (Prereq satisfactory score on MBatt or TOEFL and written permission. Limited to 15)

Ten wk, ★Sec 50, MW, 4:20-6:50, KoltH S139

Family Social Science (FSoS)

(290 McNeal Hall: 625-1900)

College of Human Ecology

Textbooks for most FSoS courses are available at University of Minnesota Bookstore—St. Paul (624-9200)

James Maddock, Professor

Robert Yahne, Professor, General College

FSoS 1001 INTRODUCTION TO FAMILY RELATIONSHIPS. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

General exploration of partner selection, interaction in committed relationships, parenting, gender roles, and the impact of social issues on family relationships. (No prereq)

First 5 wk, Sec 50, TTh, 5-8:30, HodsonH 495, StP Campus

FSoS 1025 PARENTHOOD. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Differing concepts of family roles, father, mother, son, daughter, sister, brother. Their implications for parent-child and sibling interaction. Effects of parenthood on husband-wife relations. (No prereq)

First 5 wk, Sec 50, MW, 5-8:30, McNH 198, StP Campus

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

FSoS 5230 INDEPENDENT STUDY IN FAMILY SOCIAL SCIENCE. 1-3 credits (maximum 16 cr), tuition* each credit: Resident \$95.50; Non-resident \$276.95; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90. Independent reading or research under faculty supervision. (Prereq #. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

First 5 wk, ★Sec 50, Arr

FSoS 5240 SPECIAL TOPICS: TRANCE AND HYPNOSIS IN MARRIAGE AND FAMILY THERAPY. 3 credits, tuition*: Resident \$286.50; Non-resident \$830.85; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

Principles for inducing trance and for utilizing trance states in the therapeutic process with adults and children, in the context of clinical work with individuals, couples, or families. An easily learned "generic model" of trance induction serves as a basis for investigating the role of hypnosis in working with a wide variety of client problems, regardless of the theoretical orientation or individual style of the therapist. Ethical, legal, and practical implications of using hypnosis in therapy also are examined. (Prereq licensure by the Minnesota Board of Marriage and Family Therapy or enrollment in a graduate program that includes training in marriage and family therapy, or #. Qualified students may register for graduate credit at the University of Minnesota)

Spec Term, Sec 50, FSa, 8:30 a.m.-4:30, June 20, 21, 27, 28, McNH, StP Campus, Maddock

FSoS 5253 HUMANITIES, AGING, AND FAMILY LIVING. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Nonresident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

An overview of the humanities (novels, short fiction, nonfiction, poetry, educational films) as they relate to the study of aging and family living. Emphasizes the *experience* of aging as it is perceived from the *older person's point of view*, especially as it relates to the experience of family living. Students are encouraged to consider their attitudes toward their own aging and to analyze the significance of their

relationships with older persons. (Prereq 5200 or SW 5024 or equivalent. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, TTh, 5-8:30, BorH 365, StP Campus, Yahnke

Alcohol and Drug Counseling Education Program

(388 McNeal Hall: telephone [612] 625-3778)

Philip Colgan, Director, Alcohol and Drug Counseling Education Program
William Goodman, Adjunct Associate Professor, Family Social Science
Pamela Harris, Teaching Specialist, Alcohol and Drug Counseling Education Program
Jim Nelson, Teaching Specialist, Alcohol and Drug Counseling Education Program
Jim Robinson, Alcohol and Drug Counseling Education Program

For information about the Alcohol and Drug Counseling Education Certificate, see the 1995-96 Extension Classes Bulletin, page 523 or on the Internet address www.che.umn.edu/fsos/programadcep.html. To receive a formal application for the certificate program, write Alcohol and Drug Counseling Education Program, Family Social Science, University of Minnesota, 388 McNeal Hall, 1985 Buford Ave., St. Paul, MN 55108. Or call the program office, (612) 625-3778; FAX (612) 625-4227.

If you do not attend the entire first class session, your space in that class will be forfeited.

FSoS 3029 COUNSELING SKILLS PRACTICUM I. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Dyadic role-playing and group exercises in the area of basic counseling skills. Topics include assessment of counselor needs and motivations, non-verbal communication, accurate empathy, self-disclosure, and questioning. Use of video tape to aid students in feedback. **Certificate students must take this course A-F.** (No prereq. Students interested in graduate credit should see 5029. Meets concurrently with 5029. Limited to a combined total of 20)

Spec Term, ★Sec 50, W, 6-9:30, June 11-July 23, McNH 274, StP Campus and Sa, 9 a.m.-5, June 21, McNH 274, StP Campus, Colgan

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

FSoS 3032 CHEMICAL ABUSE AND FAMILIES: AN OVERVIEW. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Introduction to marriage and family counseling with particular application to the families in which alcohol or drug abuse is a problem. **Certificate students must take this course A-F.** (No prereq. Students interested in graduate credit should see 5032. Meets concurrently with 5032. Limited to a combined total of 40)

Spec Term, ★Sec 50, ThFSa, 9 a.m.-5, July 10-12, McNH 274, StP Campus and Th, 6-10, July 17, 24, McNH 274, StP Campus, Nelson. *No late fee through July 3*

FSoS 3034 TOPICS IN ALCOHOL AND DRUG ABUSE. 1-5 credits, tuition* each credit: Resident \$95.50; Nonresident \$276.95.

Selected readings in alcohol and drug use and problems and evaluation of student's mastery of the assigned study. **Must be taken A-F.** Requests for permission to register must be made to the Alcohol and Drug Counseling Education Program, 388 McNeal Hall, 1985 Buford Ave., St. Paul, MN 55108, or call the program office, (612) 625-3778. (Prereq written #. Students interested in graduate credit should see 5034)

Ten wk, Sec 50, Arr, Colgan, Fabunmi, Goodman

FSoS 3035 CLINICAL INTERNSHIP IN CHEMICAL ABUSE PROBLEMS. 2-18 credits, tuition* each credit: Resident \$95.50; Nonresident \$276.95. (*Plus additional \$35 special fee each placement*)

Also required is a closed class permission slip, which is available by calling the program office at 625-3778. A six-month (1000-hour) rotating clinical internship experience designed to strengthen the student's competencies and skills in several areas of the alcohol and drug abuse continuum of care. Admissions requests must be made to the Internship Coordinator of the Alcohol and Drug Counseling Education Program. **Must be taken S-N.** (Prereq 3026, 3027, 3028, 3029, 3030, 3032, 3037 and written #)

Ten wk, Sec 50, Arr, Fabunmi

FSoS 3037 GROUP THERAPY: THEORY AND PRACTICE. 3 credits, tuition*: Resident \$286.50; Non-resident \$830.85.

Lecture, small-group experience, and role playing aimed at providing an introduction to group therapy concepts. Topics include stages of group development, stages of affective development, Hill Interaction Matrix, leadership roles and functions.

Certificate students must take this course A-F. (No prereq. Students interested in graduate credit should see 5037. Meets concurrently with 5037. Limited to a combined total of 20)

Spec Term, ★Sec 50, ThFSa, 9 a.m.-5, June 26-28, McNH 274, StP Campus. *No late fee through June 19*

FSoS 5008 ETHICS AND CLINICAL SUPERVISION GROUP. 1 credit, tuition*: Resident \$95.50; Nonresident \$276.95; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Special topics, ethical issues, nonregular program or course in Family Social Science for pre-service or in-service helping professionals. **Must be taken S-N.** (Prereq 3035 or 5035. Qualified students may register for graduate credit at the University of Minnesota)

Ten wk, Sec 50, Arr, Fabunmi

FSoS 5029 COUNSELING SKILLS PRACTICUM I. 4 credits, tuition* : Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

See course description and prerequisites for 3029. **Certificate students must take this course A-F.** (Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3029. Limited to a combined total of 20)

Spec Term, ★Sec 50, W, 6-9:30, June 11-July 23, McNH 274, StP Campus; and Sa, 9 a.m.-5, June 21, McNH 274, StP Campus, Colgan

FSoS 5032 CHEMICAL ABUSE AND FAMILIES: AN OVERVIEW. 4 credits, tuition* : Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

See course description and prerequisites for 3032. **Certificate students must take this course A-F.** (Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3032. Limited to a combined total of 40)

Spec Term, ★Sec 50, ThFSa, 9 a.m.-5, July 10-12, McNH 274, StP Campus and Th, 6-10, July 17, 24, McNH 274, StP Campus, Nelson. *No late fee through July 3*

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

FSoS 5034 TOPICS IN ALCOHOL AND DRUG ABUSE. 1-5 credits, tuition* each credit: Resident \$95.50; Nonresident \$276.95; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

See course description and prerequisites for 3034. **Must be taken A-F.** Requests for permission to register must be made to the Alcohol and Drug Counseling Education Program, 388 McNeal Hall, 1985 Buford Ave., St. Paul, MN 55108, or call the program office, (612) 625-3778. (Qualified students may register for graduate credit at the University of Minnesota)

Ten wk, Sec 50, Arr, Colgan, Fabunmi, Goodman

FSoS 5035 CLINICAL INTERNSHIP IN CHEMICAL ABUSE PROBLEMS. 2-18 credits, tuition* each credit: Resident \$95.50; Nonresident \$276.95; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90. (*Plus additional \$35 special fee each placement*)

See course description and prerequisites for 3035. **Must be taken S-N.** (Qualified students may register for graduate credit at the University of Minnesota)

Ten wk, Sec 50, Arr, Fabunmi

FSoS 5037 GROUP THERAPY: THEORY AND PRACTICE. 3 credits, tuition*: Resident \$286.50; Non-resident \$830.85; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

See course description and prerequisites for 3037. **Certificate students must take this course A-F.** (Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3037. Limited to a combined total of 20)

Spec Term, ★Sec 50, ThFSa, 9 a.m.-5, June 26-28, McNH 274, StP Campus. *No late fee through June 19*

Finance (BFin)

(735 Management/Economics: 624-2888)
Carlson School of Management

Textbooks for most BFin courses are available at University of Minnesota Bookstore—West Bank (625-3000)

BFin 3000 FINANCE FUNDAMENTALS. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20. (**IDL**)

A survey of financial markets and a comprehensive introduction to the basics of finance including valuation theory and management decision-making with respect to sources and uses of funds. **May not be taken S-N.** (Prereq Acct 1050 and at least 90 credits completed or in progress. Limited to 50)
First 5 wk, ★Sec 50, MW, 5:30-9, BlegH 135

Food Science and Nutrition (FScN)

(225 Food Science and Nutrition: 624-1290)
Colleges of Agriculture, Food, and Environmental Sciences and Human Ecology

Textbooks for most FScN courses are available at University of Minnesota Bookstore—St. Paul (624-9200)

No FScN courses offered through Extension Classes summer 1997

French (Fren)

(260 Folwell Hall: 624-4344)
College of Liberal Arts

Textbooks for most Fren courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Reading French: Fren 0001 is specifically designed for individuals who desire only a reading knowledge of the language. The French language requirements for a graduate degree may also be satisfied by successfully passing an examination given at the end of the course. Graduate students should check with their advisers for specific language requirements in their field of study.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Fren 0001 READING FRENCH. No credit, tuition*: \$338. (IDL)

This course is designed solely to impart a basic reading knowledge of the French language; full time is devoted to intensive reading and translation of a variety of texts. Since this approach deals only with the reading aspect of the language, there are no sessions for oral-aural drills and composition, and great skill can be acquired in a short time. At the end of one quarter the student is given an examination in French. Students successfully completing the course should obtain the Language Certification form from the Graduate School and present it to the department for signature. **Must be taken S-N.** (No prereq. Limited to 25)

First 5 wk, ★Sec 50, MTh, 6-8:30, FolH 240

Fren 1104 INTERMEDIATE FRENCH. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25.

Discussion of literary and cultural readings. Grammar review and development of writing skills. (Prereq 1103 or #. Limited to 25)

First 5 wk, ★Sec 50, MTh, 6-9:50, FolH 246

Fren 1105 INTERMEDIATE FRENCH. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25.

Cultural and literary readings, progressively less structured discussion leading to free expression of ideas through speaking and writing. (Prereq 1104 or #)

Second 5 wk, Sec 50, MTh, 6-9:50, FolH 246

French and Italian (FrIt)

(260 Folwell Hall: 624-4344)

College of Liberal Arts

Textbooks for most FrIt courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No FrIt courses offered through Extension Classes summer 1997

General College (GC)

(109 Appleby Hall: 625-6663)

Textbooks for most GC courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Robert C. delMas, Lecturer
Jill Gidmark, Professor
Peter Kahn, Assistant Professor
Laura Koch, Associate Professor
Sander Latts, Associate Professor
Douglas Robertson, Professor
Richard Uthe, Associate Professor
Robert Yahnke, Professor

Preparatory Mathematics Program

Choosing the first mathematics class in college is difficult but very important. Students want to minimize the number of preparatory mathematics classes that they must take while at the same time maximizing their opportunity for success. Experience indicates that students choose an inappropriate advanced class more often than they choose a more elementary class. Be careful in your choice. Your success depends on your choice.

Any student who has completed four years of high school mathematics, including solid geometry and trigonometry within the last two years with above-average grades, may register in Math 1211, Calculus I (see the Mathematics section of this Bulletin). However, if it has been more than two years since the last mathematics course in high school was completed, the student should register in Math 1201, Pre-calculus (see the Mathematics section of this Bulletin), or possibly GC 0631, Intermediate Algebra, Part II, which corresponds to second-year high school algebra.

The following rules usually apply: a student who has been out of high school for several years, or who did not have second-year algebra in high school, should register for GC 0625, while a more recent graduate with fair knowledge of algebra should register for GC 0631. A student who knows very little about algebra should register for GC 0643, Basic Mathematics, which covers the same material as first-year high school algebra, while a student with a good background in signed numbers and introductory algebra will want to try GC 0625, Intermediate Algebra, Part I. A student who lacks background in arithmetic or who suffers from a fear

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

of mathematics should register for GC 0643. With the aid of an instructor, the student is able to progress through arithmetic or introductory algebra at a pace more suited to his or her learning style.

Students will find assistance in the Mathematics Learning and Assessment Center, Appleby Hall 9 (summer hours will be posted outside the room). Tutorial assistance, placement testing in mathematics, and personal help in overcoming mathematics anxiety are available to students registered in any of the General College preparatory mathematics courses.

GC 0623 PLANE GEOMETRY. No credit, tuition*: \$338. (IDL)

Elements of plane geometry with some geometry of solids equivalent to one year of high school geometry. Logic, sets, systems of measurement, geometric figures, geometric relationships, area, volume, concurrence, constructions. Course is programmed instruction with lecture notes provided by instructor. (Prereq GC math placement or elementary algebra, #. Meets concurrently with GC 0643. Limited to a combined total of 30)

Ten wk, ★Sec 50, W, 5-8 plus 1 hr arr, ApH 3, Koch

GC 0643 BASIC MATHEMATICS: PROGRAMMED STUDY. No credit, tuition*: \$338.

With aid of instructor, topics selected from whole numbers, fractions, decimals, percents, signed numbers, formulas, graphs, ratio and proportion, sets, properties, equations, inequalities, rectangular graphs, polynomials, factoring, rational expressions, conic sections, functions, logarithms. Course is programmed instruction with lecture notes provided by instructor. (Prereq #. Meets concurrently with GC 0623. Limited to a combined total of 30)

Ten wk, ★Sec 50, W, 5-8 plus 1 hr arr, ApH 3, Koch

General College Course Offerings

GC 1166 PRINCIPLES OF CHEMISTRY. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Fundamental principles and laws. Problem-solving techniques. Classification of matter, elements, atomic and molecular structure, compounds, mole calculations, chemical bonding, empirical formulas, chemical reactions, stoichiometry, enthalpy, gas laws, solutions, solution concentrations, acids and bases, organic chemistry. No separate weekly laboratory. (Prereq 0621 or Math Level "D" or high school algebra or equivalent. Limited to 36)

First 5 wk, ★Sec 50, TTh, 6-9, SciCB 125, Uthe

GC 1233 UNITED STATES: GOVERNMENT AND POLITICS. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Major institutions of American national government and politics examined in context of their recent social-historical development. Becoming a well-informed and active citizen encouraged through participant-observer field assignment and required reading of daily newspaper. (No prereq. Limited to 36)

First 5 wk, ★Sec 50, MW, 5-8, ApH 226, Kahn

GC 1283 PSYCHOLOGY OF HUMAN DEVELOPMENT. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Focuses on growth and development of individual from conception through old age. Physical, motor, social, emotional, and psychological growth, and cognitive development. Integrated view of facets of development in order to understand human being as a complex organism functioning in a complex environment. The family as the main environmental factor in early development of individual. (No prereq. Limited to 36)

First 5 wk, ★Sec 50, TTh, 5:30-9, ApH 226, Latts

GC 1371 LITERATURE: READING SHORT STORIES. 4 credits, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Representative short stories by American, British, and continental writers. How individual writers have used the form of the short story to express their ideas about human experience. (No prereq. Limited to 36)

Second 5 wk, ★Sec 50, MW, 5-8, ApH 226, Gidmark

GC 1374 THE MOVIES: AN INTRODUCTORY COURSE. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Films as art forms and as communication media. Students view films in class, may read film scripts, and may attend film showings locally to learn how to analyze films and to recognize their unique characteristics. (No prereq. Limited to 36)

First 5 wk, ★Sec 50, MW, 5-8, ApH 302, Yahne

GC 1454 STATISTICS. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Introduction to modern statistics, emphasizing problem solving and hands-on experience with real data. Topics include summary statistics, sampling, probability, distributions, estimation, and hypothesis testing. (Prereq GC math level D or elementary algebra. Limited to 30)

First 5 wk, ★Sec 50, MW, 5-8, ApH 117, delMas

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

GC 1571 INTRODUCTION TO MICROCOMPUTER APPLICATIONS. 5 credits, tuition* (includes \$10 course fee): Resident \$432.50; Non-resident \$1235.25. (IDL)

Self-paced hands-on course covering operating system e-mail, word processing (IBM-WordPerfect, Macintosh-Word), spreadsheet (IBM-Lotus clone, Macintosh-Excel), databases (IBM-dBASE, Macintosh-Excel). Emphasis on using applications in practical ways. Most course work may be done on classroom computers. (Prereq 0621 or elementary algebra. Meets concurrently with GC 1572. Limited to 25)

Ten wk, ★Sec 50, T, 5-9:10, ApH 117, Robertson

GC 1572 INTRODUCTION TO COMPUTER PROGRAMMING. 5 credits, \$3571, tuition* (includes \$10 course fee): Resident \$432.50; Non-resident \$1235.25. (IDL)

Self-paced hands-on course in which students design, write, code, and run BASIC programs. Emphasis on writing structured programs for social sciences. Provides excellent background for further programming courses. Most course work may be done on classroom microcomputers. (Prereq 1571 or IBM microcomputer experience. Meets concurrently with GC 1571. Limited to 4)

Ten wk, ★Sec 50, T, 5-9:10, ApH 117, Robertson

German (Ger)

(205 Folwell Hall: 625-2080)

College of Liberal Arts

(German, Scandinavian, and Dutch)

Textbooks for most Ger courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Ray Wakefield, Associate Professor

Reading German—Ger 0221 and 0222 are specifically designed for individuals who desire only a reading knowledge of the language. The German language requirement for an advanced degree may be satisfied by passing Ger 0222 with a grade of "B" or better (0222 must be taken on an A-F basis). Graduate students should check with their advisers for specific language requirements in their field of study.

Ger 0221 READING GERMAN. No credit, tuition*: \$338.

This course is designed to help students acquire a reading knowledge of basic German as rapidly as possible. No prior knowledge of German is required. Grammar is reduced to a minimum. The course progresses from intensive reading of simple, graded material to selections of moderate difficulty. Vocabulary building and analysis of compound words are emphasized. **Must be taken S-N.** (No prereq)

First 5 wk, Sec 50, MTh, 6-9:20, FolH 234, Wakefield

Ger 0222 READING GERMAN. No credit, tuition*: \$338.

This course is designed to give students experience in intensive reading of German scholarly texts and enable graduate students to satisfy departmental requirements for an advanced degree. Listening comprehension will be introduced to enhance reading performance. Graduate students achieving a grade of "B" or better in 0222 should bring their Graduate School language certification forms to 205 Folwell Hall for signature. **Must be taken A-F.** (Prereq 0221 or 2 quarters of beginning German or 2 years of high school German)

Second 5 wk, Sec 50, MTh, 6-9:20, FolH 234, Wakefield

History (Hist)

(614 Social Sciences: 624-2800)

College of Liberal Arts

Textbooks for most Hist courses are available at University of Minnesota Bookstore—West Bank (625-3000)

E.L. Farmer, Professor
George Green, Associate Professor
Thomas Kelly, Professor
John Kim Munholland, Professor
David Noble, Professor of American Studies
Stuart B. Schwartz, Professor
John Thayer, Professor
James Tracy, Professor

(See also the Compleat Scholar noncredit section of this bulletin)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Hist 1018 INTRODUCTION TO WORLD HISTORY. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

The world today and its recent past. War and Cold War; expansion of the American and Soviet economic, political and cultural systems, dominant culture, and minority questions; contemporaneous developments in the Third World; global order; movements for peace, ecology, and human rights. (No prereq)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 255

Hist 1027 INTRODUCTION TO EUROPEAN CIVILIZATION. 4 credits, §1032, tuition*: Resident \$338; Non-resident \$980.20.

Europe 1350-1750. (No prereq)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 210, Thayer

Hist 1307 AMERICAN HISTORY. 4 credits, §1301, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Colonial era and early national period from the Revolution through Civil War and Reconstruction. (No prereq)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 350

Hist 1308 AMERICAN HISTORY. 4 credits, §1302, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Modern America from 1880 to the present. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 115

Hist 3052 ANCIENT CIVILIZATION. 4 credits, §1052, tuition*: Resident \$382; Non-resident \$1107.80.

History and civilization of the ancient world. 500-146 B.C. (No prereq)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 255, Kelly

Hist 3468 PEOPLE'S REPUBLIC OF CHINA: THE COMMUNIST REVOLUTION, 1900 TO PRESENT. 4 credits, §5468, EAS 3468, tuition*: Resident \$382; Non-resident \$1107.80.

Introduction of Marxism in China, rise of communist Party, and development of a rural guerilla movement. The career of Mao Tse-tung and developments in People's Republic: the Great Leap, Cultural Revolution, Gang of Four. (No prereq. Meets concurrently with 5468, EAS 3468)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 155, Farmer

Hist 3637 RUSSIAN HISTORY FROM PETER THE GREAT TO THE PRESENT. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

A survey of Russian history since Peter the Great. (No prereq)

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 225

Hist 3723 EUROPE SINCE WORLD WAR II. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Reconstruction of European politics and society; emergence of cold war in Europe; decolonization; economic cooperation and development; East-West relations. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 245, Munholland

Hist 3822 UNITED STATES IN THE 20TH CENTURY: 1932-1960. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

The Great Depression and the New Deal; the challenge of fascism and the coming of World War II; the origins of the Cold War; the great red scare; the politics and culture of the Eisenhower era; the origins of the civil rights movement. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 255

Hist 3823 UNITED STATES IN THE 20TH CENTURY: 1960-PRESENT. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

The conflicts of the 1960s; the New Frontier and Great Society; the black struggle for freedom; the Vietnam War; the new left and counterculture; the women's movement and gay liberation; Watergate and the uncertainties of the 1970s; the Reagan counterrevolution. (No prereq)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 260

Hist 5468 PEOPLE'S REPUBLIC OF CHINA: THE COMMUNIST REVOLUTION, 1900 TO PRESENT. 4 credits, §3468, EAS 3468, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

See course description for Hist 3468. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3468, EAS 3468)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 155, Farmer

* Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Humanities (Hum)

(355 Ford Hall: 625-6563)

College of Liberal Arts

Textbooks for most Hum courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

James Norwood, Associate Professor

David Shupe, Lecturer

Hum 1005 HUMANITIES IN THE MODERN

WEST V. 4 credits, §Hum 3005, tuition*: Resident \$338; Non-resident \$980.20.

The Western world, 1940-1970. Existentialism, “the absurd;” searches for identity, commitment; religious trends; influence of oriental spiritual traditions. Integrative study of selected works by such creative figures as Camus, Sartre, Ionesco, Bultmann, Watts, Pollock, Warhol, Beauvoir, Cage, LeCorbusier, Fellini. (No prereq. Meets concurrently with 3005)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 150, Norwood

Hum 3005 HUMANITIES IN THE MODERN

WEST V. 4 credits, §Hum 1005, tuition*: Resident \$382; Non-resident \$1107.80.

See course description for Hum 1005. (No prereq. Meets concurrently with 1005)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 150, Norwood

Hum 3910 TOPICS IN THE HUMANITIES: HUMANITIES AND CONTEMPORARY LIFE.

4 credits, §Hum 5910, tuition*: Resident \$382; Non-resident \$1107.80.

Do social and cultural conditions at the close of the twentieth century permit a personal life conditioned by the arts and humanities—a reflective life, participation in the life of the mind, intellectual discourse, a reasoned search for meaning? Is our culture “dumbing down” its participants? Is there still a non-specialized lay readership to whom authors and publishers can address thoughtful, even difficult, books? Does our culture have room for “public intellectuals”? Can individuals preserve or recover habits of mind which may be generally at risk? What does it take to achieve a balance in one’s life which includes genuine reflection? These questions underlie course activities, which include

in-class conversations with some of the more thoughtful (and at times prominent) residents of the Twin Cities. A rich reading list from which to choose emphasizes personal essays and intellectual diaries such as Dag Hammarskjöld’s *Markings*, Wendell Berry’s *Standing By Words*, or Edward Lueders’s *Clam Lake Papers*. (No prereq. Meets concurrently with 5910)

First 5 wk, Sec 50, TTh, 6-8:30, FolH 50, Shupe

Hum 5910 TOPICS IN THE HUMANITIES: HUMANITIES AND CONTEMPORARY LIFE.

4 credits, §Hum 3910, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

See course description for Hum 3910. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3910)

First 5 wk, Sec 50, TTh, 6-8:30, FolH 50, Shupe

Industrial Engineering/Operations Research (IEOR)

(121 Mechanical Engineering: 625-5842)

Institute of Technology

(Department of Mechanical Engineering)

Textbooks for most IEOR courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Sant Ram Arora Professor

Kevin J. Dooley, Associate Professor

IEOR 5010 INTRODUCTION TO WORK

ANALYSIS. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Fundamentals of methods engineering, work measurement, and plant layout; charting techniques, process charts, predetermined time systems, work sampling, time study, master standard data, cross charting, and line balancing. (Prereq IT or grad student. Qualified students may register for graduate credit at the University of Minnesota. May not be taken for graduate credit by IEOR graduate students)

Second 5 wk, Sec 50, MW, 5-8, EE/CSci 2260

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

IEOR 5030 QUALITY ENGINEERING. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Definition of quality, quality strategy, economics of quality, quality improvement teams, improvement methodologies, the 7 QC tools, control charts, rational sampling, process capability analysis, quality in product design, quality function deployment, total quality management. Deming management methods. (Prereq IT or grad student, Math 1261, ME 3900, IEOR 3000 recommended. Qualified students may register for graduate credit at the University of Minnesota. May not be taken for graduate credit by IEOR graduate students)

First 5 wk, Sec 50, MW, 5-8, EE/CSci 2260

IEOR 5040 QUALITY ENGINEERING. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Linear programming, algebra and geometry of linear models, simplex method, sensitivity testing, and duality; network models, network algorithms, and dynamic models. (Prereq IT or grad student, Math 1261; IEOR 3000 recommended. Qualified students may register for graduate credit at the University of Minnesota. May not be taken for graduate credit by IEOR graduate students)

First 5 wk, Sec 50, TTh, 5-8, EE/CSci 2260, Arora

IEOR 5050 ENGINEERING ECONOMIC ANALYSIS. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Fundamental principles and techniques of economic analysis of engineering projects including economic measures of effectiveness, time value of money, cost estimation, depreciation, taxes, break-even, replacement and investment analysis. (Prereq IT or grad student. Qualified students may register for graduate credit at the University of Minnesota)

Second 5 wk, Sec 50, MW, 5-8, EE/CSci 3230, Arora

IEOR 5311 MANAGEMENT FOR ENGINEERS. 4 credits (plus optional 1- or 2-credit term paper), tuition* each credit: Resident \$99.50; Non-resident \$288.55; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Definition and philosophy of safety, safety training, safety requirements for production processes, equipment and plants, industry standards, safety devices, and product safety. (Prereq IT or grad student. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, TTh, 6-9, EE/CSci 3230

IEOR 5550 DESIGN AND ANALYSIS OF EXPERIMENTS I. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Theory of variation, scientific method, independent and paired t-tests, analysis of variance, diagnostic checks, model building, gull and fractional factorial designs, Taguchi designs, response surface methodology. (Prereq IT or grad student, ME 3900. Qualified students may register for graduate credit at the University of Minnesota)

Second 5 wk, Sec 50, TTh, 5-8, EE/CSci 3230

Industrial Relations (IR)

(537 Management/Economics: 624-2500)
Carlson School of Management

Textbooks for most IR courses are available at University of Minnesota Bookstore—West Bank (625-3000)

IR 3002 PERSONNEL AND INDUSTRIAL RELATIONS. 4 credits, \$8002, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20.

An introduction to the human resource management function in organizations. Coverage includes the labor market, recruitment, selection, training, compensation, and labor relations. Topics to be covered are the changing nature of the world of work, emerging legal issues, discrimination in pay and employment, comparable worth, work performance and its assessment, and the effects of technological change on jobs and employment. The course involves lecture presentations, discussion,

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

case studies, and simulation exercises. **Must be taken A-F.** (Prereq Econ 1101, Econ 1102, Psy 1001; and at least 90 cr completed or in progress. Limited to 65)

First 5 wk, ★Sec 50, MW, 6-9, BlegH 215

IR 3010 THE INDIVIDUAL IN THE ORGANIZATION. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20.

An introduction to the human side of organizations, focusing on workers and how they enter and succeed in the work setting. Coverage includes theories and techniques of employment interviewing; training needs analysis; career planning; management development; turnover, out-placement, and retirement; understanding leadership roles and styles; work motivation, organization culture and job design; and planning for change. Course involves lecture presentations, discussion, case studies, and simulation exercises. (Prereq at least 90 cr completed or in progress)

Second 5 wk, Sec 50, MW, 6-9, BlegH 115

Information and Decision Sciences (IDSc)

(395 Humphrey Center: 624-8030)

Carlson School of Management

Textbooks for most IDSc courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Courses in the IDSc area make up a program designed for students with a variety of backgrounds:

1. Undergraduates in the Carlson School or other schools who want one or more IDSc courses as electives.
2. Working students who want IDSc electives or an information technology-focused emphasis program as part of their mid-career education, but who are not necessarily working toward a degree.
3. Undergraduate Carlson School business majors who want to focus on information technology as part of their Carlson School B.S.B. degree.

IDSc 3030 (formerly MSci 3030) INFORMATION SYSTEMS AND INFORMATION MANAGEMENT. 4 credits, §MSci 3030, §IDSc 3002, §MIS 3100, 5100, 3101, 3300, 5101, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20.

Defining information requirements. Developing information systems applications. Using information systems. Defining data structures and building and using databases. Formulating database retrievals. Building and using models and expert systems to support decision making. Obtaining external data to support model building and decision making. Evaluating information. Skill development in database software. This course is equivalent to MIS 3100, 5100, 3101, 3300, and 5101. **Must be taken A-F. Limits are strictly enforced due to facility limitations. No permission to register will be given when a section closes.** (Prereq IDSc 1010 and OMS 1020. Limited to 25)

Ten wk, ★Sec 50, W, Lect, 5:30-8:15, BlegH 335; W, Lab, 8:15-9:15, BlegH 90

NOTE: Students taking upper division Carlson School courses through UC/CEE should have the equivalent of 90 quarter college credits with a "B-" grade average.

Insurance and Risk Management (Ins)

(537 Management/Economics: 624-2500)

Carlson School of Management

(See also Finance)

No Ins courses offered through Extension Classes summer 1997

Interdisciplinary Archaeological Studies (InAr)

(215 Ford Hall: 625-1062)

College of Liberal Arts

Textbooks for most InAr courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

InAr 5100 TOPICS IN INTERDISCIPLINARY ARCHAEOLOGICAL STUDIES: WOMEN IN PREHISTORY. 4 credits, §1001, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Survey women's lives in prehistoric society. Compare archaeological, mythological, and historical evidence for goddess cults and other religious roles, child birth, mortality demographics, family, economic and political roles. Case study approach incorporates research from Europe, Mediterranean, and native America. (Prereq jr or sr or grad or #. Qualified students may register for graduate credit at the University of Minnesota) First 5 wk, Sec 50, TTh, 6:20-8:50, FordH 120

International Relations (IntR)

(214 Social Sciences: 624-9353)

College of Liberal Arts

Textbooks for most IntR courses are available at University of Minnesota Bookstore—West Bank (625-3000).

(See also Political Science; Journalism and Mass Communication; and History)

Elizabeth Klages, Teaching Assistant
Ken Steuer, Program Coordinator

IntR 3900 TOPICS IN INTERNATIONAL RELATIONS: SCANDINAVIA IN THE NEW EUROPE. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

The increasing role of the Scandinavian states in post-Cold War Europe; including integration in the European Union, relations with the Baltic states and Eastern Europe, emerging defense communities, and environmental initiatives. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 350, Klages

IntR 3900 TOPICS IN INTERNATIONAL RELATIONS: HISTORY OF DIPLOMACY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

The "art" of diplomacy, beginning with the advent of the modern state system in 1648. Case studies address historical issues including the development of official diplomatic procedures, the role of non-state actors (such as church, trading corporations, and NGOs), colonial diplomacy (empire-building and decolonization), the rise of new theories of diplomatic relations during the 20th century, and the state of diplomacy today. (No prereq)

Second 5 wk, Sec 51, TTh, 6-8:30, BlegH 210, Steuer

Jewish Studies (JwSt)

(330 Folwell Hall: 625-5353)

College of Liberal Arts

(Classical & Near Eastern Studies)

Textbooks for most JwSt courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Stephen Feinstein, Visiting Professor

JwSt 3522 HISTORY OF THE ARAB-ISRAELI CONFLICT. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Examination of the background of Jewish history and persecution in Europe; the advent of Zionist thinking and the idea of a Jewish state; Jewish-Arab relations during the British Mandate over Palestine, Israeli statehood, the Arab-Israeli conflict, the Palestine Diaspora, the struggle for peace and settlement of the refugee problem versus security issues, through the Oslo Accords and Israeli withdrawal from occupied territories. (No prereq) Second 5 wk, Sec 50, TTh, 6:20-8:50, FolH 214, Feinstein

Journalism and Mass Communication (Jour)

(111 Murphy Hall: 625-9824)

College of Liberal Arts

Textbooks for most Jour courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No courses offered through Extension Classes summer 1997

Kinesiology (Kin)

(220 Cooke Hall: 625-5300)

College of Education and Human Development (School of Kinesiology and Leisure Studies)

Textbooks for most Kin courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No Kin courses offered through Extension Classes summer 1997

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Landscape Architecture (LA)

(125 Architecture: 625-6860)

College of Architecture and Landscape Architecture

Textbooks for most LA courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

LA 5351 AUTO CAD I. 4 credits, tuition* (includes \$20 course fee): Resident \$418; Non-resident \$1174.20.

Basic concepts, tools, and techniques of computer-aided drawing with an introduction to current AutoCAD Release. Strategies and techniques for producing dimensioned and annotated drawings suitable for plotting, and an introduction to three-dimensional drawing capabilities. Use of dimension variables, attributes, blocks, symbols, and the creation of customized menus. Students complete a basic drawing project. Class sessions will include a brief demonstration and discussion followed by individual hands-on training in drawing examples of architectural construction documents. No prior computing experience is necessary. **Must be taken A-F.** (Prereq LA major and #. May not be taken for graduate credit at the University of Minnesota. Limited to 12)

Second 5 wk, ★Sec 50, MW, 6-9:30, Arch 145

(See also *Gardening and Landscaping* in the Practical Scholar noncredit section of this bulletin)

Latin (Lat)

(330 Folwell Hall: 625-5353)

College of Liberal Arts

(Classical & Near Eastern Studies)

Textbooks for most Lat courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000).

Robert P. Sonkowsky, Professor

Lat 3420 CLASSICAL, BIBLICAL, LATER CHRISTIAN, SECULAR LATIN. 5 credits, tuition*: Resident \$477.50; Non-resident \$1384.75.

Survey of Latin literature from earliest through renaissance periods and study of selections from Roman republican and imperial literature, the vulgate Bible, medieval and renaissance literature. Different selections will be studied each time the course is offered. *Course may be repeated for credit.* (Prereq 1104 or #. Meets concurrently with 5970, 8120)

First 5 wk, Sec 50, MW, 7-9, FolH 326, Sonkowsky

Lat 5970 CLASSICAL, BIBLICAL, LATER CHRISTIAN, SECULAR LATIN. 5 credits, tuition*: Resident \$477.50; Non-resident \$1384.75; Resident Graduate credit \$637.50; Non-resident Graduate credit \$1402.50; Resident Graduate School credit \$1147.50; Non-resident Graduate School credit \$2524.50.

See course description for Lat 3420. *Course may be repeated for credit.* (Prereq 1104 or #. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3420, 8120)

First 5 wk, Sec 50, MW, 7-9, FolH 326, Sonkowsky

Lat 8120 CLASSICAL, BIBLICAL, LATER CHRISTIAN, SECULAR LATIN. 5 credits, tuition*: Resident Graduate School credit \$1147.50; Non-resident Graduate School credit \$2524.50.

See course description for Lat 3420. *Course may be repeated for credit.* (Prereq 1104 or #. Open only to students admitted to the University of Minnesota Graduate School. Meets concurrently with 5970)

First 5 wk, Sec 50, MW, 7-9, FolH 326, Sonkowsky

Latin American Studies (LAS)

(214 Social Sciences: 624-8543)

College of Liberal Arts

(Area Studies Programs)

Textbooks for most LAS courses are available at University of Minnesota Bookstore—West Bank (625-3000)

No LAS courses offered through Extension Classes summer 1997

Learning and Academic Skills

(LAsK)

(104 Eddy Hall: 624-7546)

College of Liberal Arts

Textbooks for most LAsK courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

(See also the Practical Scholar noncredit section of this bulletin)

A student who does not attend the first class meeting of a LAsK course will not be allowed to continue. A written verification of non-attendance must be obtained from the instructor for a student to receive a 100% tuition refund.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

LASK 1001 BECOMING A MASTER STUDENT. 2 credits, tuition*: Resident \$169; Non-resident \$490.10.

Practical assistance in developing efficient and effective learning strategies, preparing for examinations, and improving reading speed and comprehension. Addresses student attitude and motivation and their relation to satisfactory performance. (No prereq. Limited to 30)

Second 5 wk, ★Sec 50, TTh, 6-8:30, NichH 109

Liberal Studies (LS)

(306 Wesbrook Hall: 625-5083)

University College

Textbooks for most LS courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

The Graduate School and University College offer the Master of Liberal Studies program for adult and part-time students. This degree can be completed in the evening and on weekends. Interested students may call the M.L.S. office for more information and application materials: (612) 625-5083.

Stephen Daniel, coordinator, Minnesota Area Geriatric Education Center

Kevin Dooley, Associate Professor of Mechanical Engineering

William Mishler, Associate Professor, Scandinavian Languages and Literatures

Dennis Rhodus, Lecturer

Lindsay Shen, Lecturer

Priority in assignment of space in classes is given to students admitted to the MLS degree program. Students not admitted to the program may register on a space-available basis.

LS 5100 TOPICS: AMERICAN FILM: The Reality of Illusion. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

View and examine several first-rate American films from a variety of genres, the focus of which will be the “apparatus,” the magic of a given motion picture’s power to evoke and stimulate the range of emotion it does. This seminar addresses such issues as the film as moral propaganda; the reality of symbols; analysis of film by genre; and the underlying purpose of each genre. Due to the nature of the films selected, the professor requests the

suitability of all students as members of an R-rated film’s audience. **Must be taken A-F.** (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 22)

Spec Term, ★Sec 50, M, June 23, 30, July 7, 14, 21, 6-8, FolH 38; W, June 25, July 2, 9, 16, 23, 30, 6-7, FolH 38, Rhodus

LS 5100 TOPICS: PLACE AND MATERIAL CULTURE. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

There are many ways in which landscapes can be read as “cultural autobiographies” of the societies which shape them. This seminar draws on social geography, architectural and art history, history and cultural anthropology. The theoretical issues will be addressed largely through case studies of particular societies, both Western and non-Western. In these case studies, class participants will consider the ways in which landscapes and artifacts are produced and used in specific social contexts. It is proposed that material culture may be considered a rich source of “text” in revealing cultural, religious, political and aesthetic values, social and gender relations, and kinship structures. *Required morning field trip tentatively scheduled for Saturday, August 2. Must be taken A-F.* (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 22)

Spec Term, ★Sec 51, TTh, June 26, July 1, 8, 10, 17, 24, 29, Aug. 7 (plus field trip), 6-8:30, ApH 103, Shen

LS 5100 TOPICS: SACRED VIOLENCE IN AMERICAN CULTURE. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Self-anointed, prone to violence, yearning for redemption, the American character finds itself driven by obscure religious impulses. What is the connection between the national hunger for righteousness and our tendency to appease it with what newspapers often call “mindless violence”? What are the roots of this strange and destructive mechanism? Drawing on the theories of the cultural critic and anthropologist Rene Girard, author of *Violence and the Sacred*, class participants will consider these questions by reading and discussing a number of classic and contemporary American

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

fiction. Writers studied will include Melville, O'Connor, Faulkner, and McCarthy. **Must be taken A-F.** (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 22)

Second 5 wk, ★Sec 52, MW, 6:20-8:50, FolH 326, Mishler

LS 5100 TOPICS: ORGANIZATIONAL SYSTEMS THEORY. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

An introduction to the various ways in which human (business) organizations have been conceptualized, and the implications of these models to modern business practice. For example, students will come to see organizations as cybernetic, information processing mechanisms, as machines, as organisms within an ecology, as political systems, as complex adaptive systems, as institutions and resource bases, and as systems of power. Students are exposed to management theorists such as Simon, March, Argyris, Lewin, Morgan, Hannan, Gailbreath, Mintzberg, Pfeffer, and Schein. Topics include organizational behavior, structure, change, and strategy. **Must be taken A-F.** (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 22)

Second 5 wk, ★Sec 53, TTh, 5:30-8, WullH 220, Dooley

LS 8000 TOPICS: INTRODUCTION TO GRADUATE LIBERAL STUDIES. 4 credits, tuition*: Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Required for, and limited to, students admitted to the MLS degree program, this seminar orients students to the character of interdisciplinary studies at the graduate level. Each offering has a unique topic chosen by the graduate faculty member teaching that seminar. **Must be taken A-F.** (No prereq. Open only to students admitted to the University of Minnesota Graduate School. Limited to 20)

Spec Term, ★Sec 50, TTh, June 24, 26, July 1, 8, 10, 15, 17, 22, 29, Aug. 5, 6-8:30, SmithH 111, Daniel

Linguistics (Ling)

(192 Klæber Court: 624-3331)

College of Liberal Arts

(Linguistics & Asian & Slavic Languages & Literatures)

Textbooks for most Ling courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Bruce Downing, Associate Professor
Genevieve Escure, Professor of English
Michael Kac, Professor of Linguistics and
Philosophy

Elaine Tarone, Professor of English as a Second
Language and Linguistics

Ling 1005 LANGUAGE AND SOCIETY. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

The role of language in human social interaction; linguistic indicators of social status and attitudes; language and sex roles; linguistic ecology; language planning for multilingual communities; implications for educational and public policy. (No prereq)

First 5 wk, Sec 50, TTh, 6:10-9, FolH 104, Downing

Ling 3001 INTRODUCTION TO LINGUISTICS. 5 credits, \$3005, 5001, tuition*: Resident \$477.50; Non-resident \$1384.75.

Systematic survey of phonetics, phonology, morphology, syntax, semantics, and historical-comparative linguistics; language learning and psychology of language; linguistic universals; language in society. (No prereq. Meets concurrently with 5001)

Ten wk, Sec 50, W, 6:10-9:35, FolH 138, Kac

Ling 5001 INTRODUCTION TO LINGUISTICS. 5 credits, \$3001, 3005, tuition*: Resident \$477.50; Non-resident \$1384.75; Resident Graduate credit \$637.50; Non-resident Graduate credit \$1402.50; Resident Graduate School credit \$1147.50; Non-resident Graduate School credit \$2524.50.

See description for Ling 3001. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3001)

Ten wk, Sec 50, W, 6:10-9:35, FolH 138, Kac

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Ling 5732 A CONTRASTIVE APPROACH TO MODERN ENGLISH. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Linguistic structures of standard English and contrastive analysis. (No prereq. Qualified students may register for graduate credit at the University of Minnesota)

Second 5 wk, Sec 50, TTh, 4-6:50, FolH 344, Downing

Ling 5801 INTRODUCTION TO LANGUAGE LEARNING. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Overview of first- and second-language learning. Does not fulfill degree requirements for majors in linguistics or ESL. (Prereq 3001 or 5001 or #. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, M, 4-6:50; W, 4-6:50, FolH 326, Tarone

Ling 5910 TOPICS: SOCIOLINGUISTIC ASPECTS OF BLACK ENGLISH. 4 credits, \$Engl 5960, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

A sociolinguistic perspective on black English, its origins, development, and use in the U.S. Participants will explore the connection between black English and Caribbean creoles (including Gullah as spoken in Georgia and South Carolina); the social significance of black English as a community language and marker of identity; major linguistic aspects of the pronunciation and grammar of different varieties of black English; a summary of pedagogical strategies that may help African-American students develop dual linguistic strategies and adapt more easily to the standard-oriented education curriculum and society. (Prereq written permission from the depts. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with Engl 5960. Limited to a combined total of 40)

Spec Term, ★Sec 50, M, Aug. 11, 8:30 a.m.-3; T, Aug. 12, 8:30 a.m.-2; W, Aug. 13, 8:30 a.m.-2; Th, Aug. 14, 8:30 a.m.-2; F, Aug. 15, 9 a.m.-12; M, Aug. 18, 9 a.m.-2; T, Aug. 19, 9 a.m.-2; Rooms Arr, Escuré

MBA Program

Students interested in the Master of Business Administration degree offered through the School of Management should contact the MBA Program office in room 295 of the Hubert H. Humphrey Center; telephone 624-0006 for information.

Management (Mgmt)

(835 Management/Economics: 624-5232)
Carlson School of Management

Textbooks for most Mgmt courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Mgmt 3001 FUNDAMENTALS OF MANAGEMENT. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20. (IDL) Leadership and management functions such as those required to establish goals, policies, procedures, and plans are studied. Motivation, planning, and control systems, and concepts of organizational structure and behavior are also reviewed. **May not be taken S-N.** (Prereq at least 90 cr completed or in progress. Limited to 60)

First 5 wk, ★Sec 50, TTh, 5:45-8:45, HHCtr 20
Second 5 wk, ★Sec 51, MW, 5:45-8:45, HHCtr 20

Mgmt 3004 BUSINESS POLICY: STRATEGY FORMULATION AND IMPLEMENTATION. 5 credits, tuition* (includes \$16 special fee): Resident \$513.50; Non-resident \$1458.75. (IDL)

Undergraduate-level capstone course designed to develop skill in the general management functions of identifying and analyzing strategic issues and problems, establishing corporate or divisional goals, and designing realistic programs of action. Case analysis and discussion in class. Students also meet in small groups to prepare cases and occasional presentations to be made to the entire class. Concepts and approaches to strategic planning are taught in this course. These concepts as well as concepts, tools and theories previously presented in other courses are applied to solve goal selection and strategy implementation problems. Usually the viewpoint of the general line manager (department, division, or executive level) is taken. **May not be taken S-N.** (Prereq sr and completion of business core courses or ¶ final core course. Limited to 40)

First 5 wk, ★Sec 50, MW, 5:30-9, HHCtr 20

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Marketing (Mktg)

(1235 Management/Economics: 624-5055)

Carlson School of Management

Textbooks for most Mktg courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Mark Weber, UC Coordinator

Mktg 3000 PRINCIPLES OF MARKETING. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20. (IDL)

Introduction to marketing terms, concepts, and skills useful in analyzing marketing problems. Covers legal, behavioral, ethical, competitive, economic, technological, and international factors affecting product, pricing, promotion, and marketing channel decisions. **May not be taken S-N.** (Prereq Econ 1101 or equivalent, and at least 90 credits completed or in progress. Limited to 250)

Second 5 wk, ★Sec 50, MW, 5:30-8:30, AndH 210, Weber

Mktg 3010 MARKETING RESEARCH. 4 credits, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20.

Methods for collecting and analyzing data to solve marketing problems. Emphasis on survey research techniques. Topics include research design, secondary and primary data collection, sample design, data analysis, and marketing management applications. (Prereq 3000, OMS 1020 or equivalent, and at least 90 credits completed or in progress. Limited to 35)

Ten wk, ★Sec 50, T, 5:30-8:30, BlegH 335

Mathematics (Math)

(127 Vincent Hall: 625-8883)

Institute of Technology

Textbooks for most Math courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Mathematics prerequisites

All mathematics classes have prerequisite courses. For students who have not had the prerequisite courses, several mathematics courses have math placement scores as one of the ways to satisfy the prerequisites. Students will be given this exam on the first night of class. Students who do not pass this exam and have not passed the prerequisite courses will be transferred to the prerequisite class.

Math 1142 is designed in cooperation with the Carlson School of Management for benefit of prebusiness students. However, it is the second course of a two-course sequence. The first course is Math 1031 or 1111. Business, accounting, and MBA students usually take Math 1111 followed by either Math 1131 or Math 1142.

Calculus refresher course

Math 5090 is for students who have completed at least one year of calculus within the last 4 to 6 years. If a student finished calculus 7 or more years ago, then the best thing is to start over with Math 1211. A student may not take Math 5090 if he or she has not had one year of calculus in college. Math 5090 provides students who have been out of school for several years with the necessary background to enter more advanced courses that require a fresh knowledge of calculus.

Students interested in noncredit introductory mathematics courses should see the General College and Practical Scholar sections of this bulletin.

Advising Note—A 5-credit college algebra course will transfer to more colleges than will a 4-credit course.

Math 1031 COLLEGE ALGEBRA AND PROBABILITY. 4 credits, \$1051, \$1151, \$1111, \$1201, tuition*: Resident \$338; Non-resident \$980.20.

Algebra and analytic geometry explored in greater depth than is usually done in three years of high school mathematics. Additional topics from combinations, permutation, and probability. A suitable prerequisite for 1131 or 1142, but not for 1211 or 1251. **See Mathematics prerequisites, page 49.** (Prereq 3 years high school math and mathematics placement score or GC 0631. Limited to 30)

Ten wk, ★Sec 50, MW, 6-7:50, KoltH S136

Math 1111 COLLEGE ALGEBRA AND ANALYTIC GEOMETRY. 5 credits, \$1201, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Functions and graphs, quadratic equations, progressions, inequalities, complex numbers, theory of equations, permutations and combinations, probability, systems of equations, determinants, graphing of linear and quadratic equations, conics in standard position, logarithms. **May be used to replace 1031.** (Prereq plane geometry, 2 years high school algebra and mathematics placement score or plane geometry and GC 0631. Limited to 35)

Ten wk, ★Sec 50, TTh, 6-8:10, KoltH S136

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Math 1142 SHORT CALCULUS. 5 credits, §1211, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

(A second course of a two-quarter sequence for students in pre-business administration curriculum and for other students requiring college algebra and a minimal amount of calculus. Students who plan to take several quarters of calculus should not register for this course.) Derivatives, integrals, differential equations, maxima and minima, partial differentiation, applications. (Prereq 1111 or mathematics placement score. See **Mathematics prerequisites page 49**. Limited to 35)

Ten wk, ★Sec 50, TTh, 6-8:10, KoltH S132

Math 1151 PRECALCULUS II. 4 credits, §1008, §1111, §1201, tuition*: Resident \$338; Non-resident \$980.20.

Second of two courses in algebra, analytic geometry, and trigonometry. Prepares students for a full-year calculus sequence. Not an acceptable prerequisite for 1131 or 1142. See **Mathematics prerequisites, page 49**. (Prereq 3 1/2 years of high school math and placement exam or 1051. Limited to 30)

Ten wk, ★Sec 50, TTh, 6-7:50, KoltH S138

Math 1201 PRECALCULUS. 5 credits, §1008, §1111, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Inequalities, analytical geometry, complex numbers, binomial theorem, functions and graphs, and trigonometric, exponential and logarithmic functions. **May be used to replace 1151**. (Prereq 1051 or high school higher algebra, trigonometry, and mathematics placement score. For students in both IT and CLA who need a quick review of high school higher algebra and trigonometry before taking the calculus sequence. Limited to 35)

Ten wk, ★Sec 50, MW, 6-8:10, KoltH S138

Math 1211 CALCULUS I. 5 credits, §1142, 1311, 1611, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Analytic geometry and calculus of functions of one variable, applications. **May be used to replace 1251**. (Prereq 1201 with grade of C or better, or 1111 and 1008 with grade of C or better, or 4 years of high school math and math placement score. See **Mathematics prerequisites page 49**. Limited to 35)

Ten wk, ★Sec 50, MW, 6-8:10, KoltH S137

Math 1251 ONE VARIABLE DIFFERENTIAL AND INTEGRAL CALCULUS I. 4 credits, §1211, §1551H, §1411H, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Calculus of functions of one variable and related geometry and applications. (Prereq 4 years of high school math and math placement score, 1201 with grade of C or better, or 1111 and 1008 with grade of C or better. Limited to 30)

Ten wk, ★Sec 50, TTh, 6-7:50, KoltH S140

Math 1252 ONE VARIABLE DIFFERENTIAL AND INTEGRAL CALCULUS II. 4 credits, §1221, §1552H, §1421H, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

A continuation of the course described under 1251. (Prereq grade of C or better in 1251. Limited to 30)

Ten wk, ★Sec 50, TTh, 6-7:50, KoltH S137

Math 5090 CALCULUS REFRESHER. 5 credits, tuition*: Resident \$497.50; Non-resident \$1442.75; Resident Graduate credit \$637.50; Non-resident Graduate credit \$1402.50; Resident Graduate School credit \$1147.50; Non-resident Graduate School credit \$2524.50.

A course designed for students who have already had calculus, but who have been away from it for a while and need a review. This course covers the topics of a standard course in calculus of one variable: differentiation of elementary functions, differentials, the definite integral, techniques of integrations, applications of integration, polar coordinates, infinite series, approximation. **May be taken S-N**. (Prereq 1 year calculus. Qualified students may register for graduate credit at the University of Minnesota, except for mathematics majors. Limited to 35)

Ten wk, ★Sec 50, MW, 6-8:10, KoltH S140

Mechanical Engineering (ME)

(125 Mechanical Engineering: 625-0705)

Institute of Technology

Textbooks for most ME courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Tesfahun Berhe, Lecturer
Virgil A. Marple, Professor
Kumar K. Tamma, Professor

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

ME 1025 ENGINEERING GRAPHICS. 4 credits, §EG 1025, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Engineering representation in pictorial view and multiview; sketching techniques, size description, standard and simplified practices applied to graphical communication. Analysis of systems of projection; correlation of graphical, numerical, and computer solutions of space problems, intersections and development. Methods of computer-aided graphics. Textbooks and supplies for this course cost approximately \$100. (Prereq ¶Math 1251 or equivalent)

Ten wk, Sec 50, T, 6-9:30, Arch 10, Berhe

ME 3020 MECHANICAL ENGINEERING COMPUTATION. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20.

Application of numerical methods and FORTRAN programming to the solution of mechanical engineering problems. Engineering programming style. Methods for solving linear and non-linear engineering equations. Interpolating and displaying engineering data. Simulating mechanical systems. Thermal analysis using finite difference techniques. (Prereq IT student, Math 3261 or equivalent, CSci 3101. Limited to 40)

First 5 wk, ★Sec 50, WF, 5-8, Arch 55, Tamma

ME 5254 DESIGN MORPHOLOGY WITH APPLICATIONS. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20.

Detailed study of design problem formulation and the structure of the open-ended solution process based on design morphology. Case studies and student projects as instructional vehicles. (Prereq completion of sequences 3201-03-05, 3303-5342. Mechanical Engineering Upper Division. May not be taken for graduate credit. Limited to 30)

Ten wk, ★Sec 50, MW, 6-9, EE/CSci 3111

Middle Eastern Languages and Cultures (MELC)

(192 Klaeber Court: 624-3331)

College of Liberal Arts

(Linguistics & Asian & Slavic Languages & Literatures)

Textbooks for most MELC courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No MELC courses offered through Extension Classes summer 1997

Music (Mus)

(100 Ferguson Hall: 624-5740)

College of Liberal Arts

Textbooks for most Mus courses are available at University of Minnesota Bookstore—West Bank (625-3000)

John E. Anderson, Professor

David Damschroder, Associate Professor

Clifton Ware, Associate Professor

(See also CSch 0215 Over There: Music of the War Years—1914-18, 1939-45 in the Compleat Scholar noncredit section of this bulletin)

Mus 1001 FUNDAMENTALS OF MUSIC. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Investigation of music notation and fundamental concepts underlying musical structure. Intervals, clefs, chords, scales, cadences, harmonic analysis, rhythm and meter. Emphasis on active participation: playing the piano, singing, clapping rhythms, aural perception. Weekly laboratory assignments in vocal and piano performance. (No prereq)

First 5 wk, Sec 50, MTh, 6:15-9:25, FergH 105, Damschroder

Second 5 wk, Sec 51, TTh, 6:15-9:25, FergH 225, Anderson

Mus 1051-1052 PIANO CLASS FOR NON-MUSIC MAJORS. 2 credits, tuition*: Resident \$169; Non-resident \$490.10.

Designed primarily for the person with no piano background. Basic keyboard skills of sight-reading, harmonization, transposition, and improvisation for non-music majors. (No prereq for 1051; 1051 for 1052. Limited to 16)

Ten wk, 1051, ★Sec 50, T, 6:15-8:15, FergH 259

Ten wk, 1052, ★Sec 50, W, 6:15-8:15, FergH 259

Mus 1160 VOICE: CLASS LESSONS. 2 credit (6 cr max), tuition*: Resident \$169; Non-resident \$490.10.

Fundamentals of vocal production—posture, respiration, phonation, articulation. (No prereq)

First 5 wk, Sec 50, MTh, 6:15-8, FergH 90, Ware

Mus 1512 EAR-TRAINING AND SIGHT-SINGING II. 1 credit, tuition*: Resident \$84.50; Non-resident \$245.05.

Melodic, harmonic, and rhythmic dictation; sight-singing; clef-reading; musicianship drill. **Must be taken A-F.** (Prereq 1511, ¶1532)

Ten wk, Sec 50, MTh, 6:15-7:15, FergH 149

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Mus 1532 THEORY II: DIATONIC TONALITY. 3 credits, tuition*: Resident \$253.50; Non-resident \$735.15.

Writing and analysis of basic diatonic tonal structures. Basic harmonic and contrapuntal relationships. **Must be taken A-F.** (Prereq 1531, 1152 or 1522 or equivalent, ¶1512)

Ten wk, Sec 50, MTh, 7:15-9, FergH 149

**Summer Opportunities in Music
Through Professional Development and
Conference Services**

Telephone (612) 625-6358 to check availability
of offerings and registration information.

Natural Resources and Environmental Studies

See Soil Science

Operations and Management Science (OMS)

(332 Management/Economics: 624-7010)

Carlson School of Management

Textbooks for most OMS courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Direct questions about these evening classes to Lee Wickstrom at (612) 624-7558.

School of Management degree students must take Operations and Management Science courses A-F.

BA 1550 BUSINESS STATISTICS: DATA SOURCES, PRESENTATION, AND ANALYSIS. See the Business Administration section of this bulletin for course listing.

OMS 3000 (formerly OM 3000) INTRODUCTION TO OPERATIONS MANAGEMENT. 4 credits, §OM 3000, tuition* (includes \$16 special fee): Resident \$414; Non-resident \$1170.20.

Concepts and principles related to the management of operations functions, including operations strategy, forecasting, process design, Just-In-Time, inventory management, principles of scheduling, and quality improvement. Taught from a managerial

perspective, this course uses examples from service industries, nonprofit organizations, and manufacturing, and stresses the relationships between operations and the environment. (Prereq at least 90 credits completed or in progress. Open to nondegree students with equivalent experience. Limited to 50)

Ten wk, ★Sec 50, Th, 5:30-8:50, BlegH 230

Philosophy (Phil)

(355 Ford Hall: 625-6563)

College of Liberal Arts

Textbooks for most Phil courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

William Hanson, Professor

Jasper Hopkins, Professor

C. Kenneth Waters, Associate Professor

(See also the Compleat Scholar noncredit section of this bulletin)

Phil 1001 LOGIC. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Application of formal techniques for evaluating arguments. (No prereq)

First 5 wk, Sec 50, TTh, 6:20-8:50, FordH 115, Hanson

Second 5 wk, Sec 51, MW, 6:20-8:50, FordH 285, Waters

Phil 1002 INTRODUCTION TO PHILOSOPHY. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Problems, principal methods and schools of philosophy; historical and contemporary views. (No prereq)

Second 5 wk, Sec 50, TTh, 6:20-8:50, FordH 170

Phil 1003 INTRODUCTION TO ETHICS. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25.

Problems that arise when human beings attempt to think systematically about conduct and value. (No prereq)

First 5 wk, Sec 50, MW, 6:20-8:50, KoltH S132, Hopkins

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Physical Education (PE)

(220 Cooke Hall: 625-1007)

College of Education and Human Development

Textbooks for most PE courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

(See also the Practical Scholar noncredit section of this bulletin)

No PE courses offered through Extension Classes summer 1997

Physics (Phys)

(148 Physics: 624-7375)

Institute of Technology

Textbooks for most Phys courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No Phys courses offered through Extension Classes summer 1997

Plant Biology (PBio)

(220 Biological Sciences: 625-1234)

College of Biological Sciences

Textbooks for most PBio courses are available at University of Minnesota Bookstore—St. Paul (624-9200)

(See also the Compleat and Practical Scholar non-credit section of this bulletin)

PBio 5960 PLANT BIOLOGY WORKSHOP DESIGNED FOR ELEMENTARY TEACHERS.

3 credits, tuition*: Resident \$298.50; Non-resident \$865.65; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

A two-week workshop to help teachers learn how plants can be used in their classrooms (six previous workshops were well received by elementary teacher participants). Participants learn how to easily obtain and grow plants and integrate them into a variety of classroom activities. Introduction to Bottle Biology, and GrowLab. Background information in plant biology and a chance to learn about current research in plant biology from University faculty who have

a strong interest in setting up a network between the University and K-12 educators. Teachers have time to select, adapt, and create curricular material for their own classrooms. **Must be taken S-N.** Instructors are Tom Soulen, Associate Professor in Plant Biology; Sandy Tanck of the Minnesota Landscape Arboretum; Jane Phillips, Coordinator of Instructional Labs in the College of Biological Sciences; Kathy Ball, Associate Education Specialist for the College of Biological Sciences; and Sandra Mackey, CBS Instructional Labs, plus two elementary teachers who are past participants. A stipend for participation is available. Registration of pairs of teachers from one school is given preference. **An application is required.** Call Extension Classes at 626-8144 for further information and application materials. (No prereq. Inquire about graduate credit at the time of registration. Limited to 20)

Spec Term, ★Sec 50, MTWThF, 9 a.m.-3, BioSci 176, StP Campus, July 14-25, 1997 plus three to four additional follow-up meetings to be arranged during the 1997-98 academic year at participants' convenience.

Political Science (Pol)

(1414 Social Sciences: 624-4144)

College of Liberal Arts

Textbooks for most Pol courses are available at University of Minnesota Bookstore—West Bank (625-3000)

Edwin Fogelman, Professor
Kathryn Sikkink, Associate Professor
Steven Smith, Professor
John L. Sullivan, Professor

Pol 1001 AMERICAN GOVERNMENT AND POLITICS. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Principles, organization, processes, functions of government, and the interplay of political forces in the United States. Attention throughout to current issues. (No prereq)

Second 5 wk, Sec 50, TTh, 6-9:15, AndH 230, Smith

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Pol 1025 WORLD POLITICS. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Contemporary international relations; forms of state interaction; problems of conflict and cooperation. (No prereq)

Second 5 wk, Sec 50, MW, 6-8:30, AndH 330

Pol 1041 CONTEMPORARY POLITICAL IDEOLOGIES. 4 credits, tuition*: Resident \$338; Non-resident \$980.20. (IDL)

Major modern ideologies such as liberalism, democracy, conservatism, socialism, communism, fascism, nationalism, imperialism, racism. Adequacy of alternative ideologies for analysis and solution of political and social problems. (No prereq) First 5 wk, Sec 50, TTh, 6-8:30, HHCtr 60, Fogelman

Pol 3051 INTRODUCTION TO POLITICAL ANALYSIS. 4 credits, \$1051, tuition*: Resident \$382; Non-resident \$1107.80.

Formation of political communities, political participation, policy making, compliance, legitimacy, political development, types of political systems. Empirical and normative problems. Comparisons among major countries. (No prereq) Second 5 wk, Sec 50, MW, 6-8:30, BlegH 255

Pol 3835 INTERNATIONAL RELATIONS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Structure of international system; balance of power, bipolar and other international systems; theories of stability. Change, conflict, and cooperation. (No prereq)

First 5 wk, Sec 50, TTh, 6-8:30, HHCtr 30

Pol 3836 FOREIGN POLICY DECISION MAKING. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Theories and examples of foreign policy decision making processes, including policy formulation and implementation. Examples drawn from various foreign policy issues. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 260

Pol 5479 LATIN AMERICAN GOVERNMENT AND POLITICS. 5 credits, tuition*: Resident \$477.50; Non-resident \$1384.75; Resident Graduate credit \$637.50; Non-resident Graduate credit \$1402.50; Resident Graduate School credit \$1147.50; Non-resident Graduate School credit \$2524.50.

Latin American political heritage, political processes, and contemporary public policy issues; problems of social, economic, and political change in selected countries. (Prereq 3051 or non-political science grad student or #. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, MW, 6-9:15, BlegH 235, Sikkink

Pol 5766 AMERICAN POLITICAL CULTURE AND VALUES. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Empirical analysis of basic political values: individualism, freedom, and equality; dominant beliefs about democratic principles, postmaterialism, and capitalism; citizenship and political participation; political intolerance and patriotism; heroism and political leadership. (Prereq 3085 or equivalent or non-political science grad student or #. Qualified students may register for graduate credit at the University of Minnesota)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 115, Sullivan

Psychology (Psy)

(N218 Elliott Hall: 625-4042)

College of Liberal Arts

Textbooks for most Psy courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Psy 1001 INTRODUCTION TO PSYCHOLOGY. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Introduction to study of human behavior. Prerequisite for all advanced courses in psychology. (No prereq. Limited to 50)

Ten wk, ★Sec 50, MW, 6:20-8:30, EltH N119

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Psy 1004-1005† INTRODUCTORY LABORATORY PSYCHOLOGY. 4 credits each offering, tuition* each offering: Resident \$338; Non-resident \$980.20.

Experiments illustrating contemporary subject matter such as human and animal learning, problem solving, visual perception, measurement of general and special abilities and personality traits. (Prereq 1001 or ¶1001 for 1004; 1004 for 1005. Limited to 24)

First 5 wk 1004, ★Sec 50, TTh, 6:20-8:50, EltH 150-160

Second 5 wk 1005, ★Sec 51, TTh, 6:20-8:50, EltH 50-60

Psy 3101 INTRODUCTION TO PERSONALITY. 4 credits, §5101, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

Concepts and issues in personality theory, personality research, and personality assessment. (Prereq 1001)

Ten wk, Sec 50, Th, 6-8:30, EltH N119

Psy 3201 INTRODUCTION TO SOCIAL PSYCHOLOGY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Survey of theories and research in social psychology. Includes the effects upon the individual's attitudes and behavior of other persons, mass communications, and group membership. (Prereq 1001)

Ten wk, Sec 50, T, 6-8:30, EltH N119

Psy 3604 INTRODUCTION TO ABNORMAL PSYCHOLOGY. 4 credits, §5604, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

The field of abnormal psychology. Etiologies of behavior disorders; discussion of available treatments. (Prereq 1001. Limited to 55)

Ten wk, ★Sec 50, M, 6-8:30, BuH 123

Psy 3801 INTRODUCTION TO STATISTICAL METHODS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Quantification in research problems in psychology. Descriptive and inferential statistics, hypothesis testing, nonparametric statistics. Examples from various areas of psychology. (Prereq 1001, GC 0625 or equivalent. Limited to 50)

Ten wk, ★Sec 50, T, 6-8:30, BuH 123

Psy 3960 UNDERGRADUATE SEMINAR: OVERVIEW OF PSYCHOLOGICAL TESTING. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Survey of issues in the development and administration of psychological tests. Purposes and types of tests, test administration and scoring, characteristics of good tests. Examples from the traditional domains of psychological assessment including ability, personality, guidance, and personnel selection. (Prereq 1001, 3801. Limited to 50)

Ten wk, ★Sec 50, M, 6-8:30, WullH 140

Psy 5141 PSYCHOLOGY OF WOMEN. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Survey of current theory and research regarding psychology of women and psychological sex differences, including topics that relate uniquely to women (e.g., pregnancy) as well as sex differences in personality, abilities, and behavior. (Prereq 1001. Qualified students may register for graduate credit at the University of Minnesota)

Ten wk, Sec 50, Th, 6:20-8:50, BuH 125

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Public Health (PubH)

(A302 Mayo: 624-6669)

Textbooks for most PubH courses are available at University of Minnesota Bookstore—Health Sciences (625-8600)

Fifteenth Annual Summer Occupational Health and Safety Institute

September 8 to 19, 1997

This intensive, interdisciplinary course of study is designed for professionals currently or soon-to-be practicing in the field of occupational health and safety. Individual, graduate-level courses will be offered over the two-week period on the Minneapolis campus.

Courses include: Industrial and Occupational Toxicology, Survey of Industrial Hygiene, Introduction to Occupational Safety, Occupational Health Seminar: Cumulative Trauma Disorders, Introduction to Occupational Epidemiology, Theory and Practice of Occupational Health, and Introduction to Occupational Medicine, Introduction to Worker's Compensation.

First Annual Environmental Health Policy Institute

September 8 to 19, 1997

This intensive course of study is designed for professionals currently or soon to be practicing in the field of environmental and occupational health. Individual graduate-level courses will be offered over the two-week period on the Minneapolis campus.

Courses include: Environmental Health Policy, Health Risk Evaluation, Environmental Law, Strategic Environmental Management, and Preventing Pollution: Innovative Approaches to Environmental Management.

Application for both institutes is being made for Category 1 credit of the Physician's Recognition Award of the American Medical Association. Courses in both institutes are designed to meet the requirements of the Minnesota Board of Nursing for nursing contact hours. Select courses have been awarded Maintenance of Certification Points by the American Board of Industrial Hygiene.

For further information, contact: Program in Continuing Education, Midwest Center for Occupational Health and Safety, St. Paul-Ramsey Medical Center, 640 Jackson Street, St. Paul, MN 55101; (612) 221-3992.

Religious Studies (ReIS)

(330 Folwell Hall: 625-5353)

College of Liberal Arts

Textbooks for most ReIS courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Jonathan Paradise, Associate Professor

ReIS 3201 THE BIBLE: NARRATIVE TEXTS. 4 credits, §ANE 1001, 3001, tuition*: Resident \$382; Non-resident \$1107.80.

Survey covers the majority of the narratives in the Hebrew Bible. Through lecture and discussion we will discover the literary techniques that form the art of the biblical narrative as well as the major ideas the biblical writers were concerned with. No knowledge of Hebrew is required. (No prereq. Meets concurrently with ANE 1001, 3001)

Second 5 wk, Sec 50, MW, 6:20-8:50, FolH 218, Paradise

Research Explorations

(See page 85)

Rhetoric (Rhet)

(201 Haecker: 624-3445)

College of Agricultural, Food, and Environmental Sciences

Textbooks for most Rhet courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000) for classes on the Minneapolis campus; at University of Minnesota Bookstore—St. Paul (624-9200) for classes on that campus

David Beard, Teaching Assistant

Sandra J. Becker, Professor

Julie Daniels, Teaching Assistant

Victoria Mikelonis-Paraskov, Professor

Victoria Sadler, Teaching Assistant

Matthew Seggaard, Teaching Assistant

Beth Sokolowski, Teaching Assistant

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Rhet 1151 WRITING IN YOUR MAJOR. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Students investigate and write about subjects related to their majors. Emphasis on gathering, evaluating, synthesizing, and summarizing information; adapting it for various audiences. Assignments include literature review, abstract, fact sheet, instructions, and feature article. **Must be taken A-F.** (Prereq 1104, completion of freshman communication requirement, and sophomore status. Limited to 18)

First 5 wk, ★Sec 50, T, 6-8:30, ClaOff 17 (Macintosh Lab); Th, 6-8:30, VoTech 222, StP Campus, Beard

Rhet 1222 PUBLIC SPEAKING. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Practical course in fundamentals of effective speechmaking. Emphasis on researching and organizing a speech and communicating with an audience. **Must be taken A-F.** (Prereq completion of freshman communication requirement. Limited to 18)

First 5 wk, ★Sec 50, TTh, 6-9:20, CentLib 6, StP Campus, Daniels

Rhet 3266 COMMUNICATION, DISCUSSION IN SMALL GROUP DECISION MAKING. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20.

Role of communication techniques in the small group decision making process. Emphasis on problem-solving discussion requiring some kind of formal outcome. (Prereq 1222 or #. Limited to 18)

Second 5 wk, ★Sec 50, MW, 6-9:20, VoTech 135, StP Campus, Sokolowski

Rhet 3562 WRITING IN YOUR PROFESSION. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20. (IDL)

Projects in writing professional reports. Analyses of audience and situation; writing effectively to meet the needs of particular readers. Assignments include writing instructions, feasibility report, proposal, memorandum, letter of application, and resumé. Computer-assisted instruction. **Must be taken A-F.** (Prereq freshman communication requirement, 1151, jr or sr status. Limited to 18)

First 5 wk, ★Sec 50, MTh, 6-8:30, VoTech 135, StP Campus, Becker

First 5 wk, ★Sec 51, T, 6-8:30, VoTech R250; Th, 6-8:30, ClaOff 17 (Macintosh Lab), StP Campus, Segard

Second 5 wk, ★Sec 52, MW, 6-8:30, ClaOff 17 (Macintosh Lab), StP Campus, Sadler

Rhet 5573 GRANT PROPOSAL. 3 credits, tuition*: Resident \$298.50; Non-resident \$865.65; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

Writing the grant proposal, including establishing credibility, problem statement, program objectives, plan of action, evaluation, budget presentations, and proposal summary. Designed to serve both real and hypothetical situations. (Prereq STC major or pre-STC, freshman communication requirement, 3562 or grad status, or #. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Second 5 wk, ★Sec 50, TTh, 3:30-6, VoTech R250, StP Campus, Mikelonis-Paraskov

Russian (Russ)

(192 Klaeber Court: 624-3331)

College of Liberal Arts

(Linguistics & Asian & Slavic Languages & Literatures)

Textbooks for most Russ courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No Russ courses offered through Extension Classes summer 1997

Scandinavian Languages and Literature (Scan)

(205 Folwell Hall: 625-2080)

College of Liberal Arts

(German, Scandinavian, and Dutch)

Textbooks for most Scan courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Göran Stockenström, Professor

Scan 3504 THE IMMIGRANT EXPERIENCE. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Issues of origins and language, immigration and settlement, traditions and values, culture and politics, and transgression of boundaries from the old to the new, are studied through photos, diaries, letters, songs, stories and novels. (No prereq)

First 5 wk, Sec 50, MW, 6:20-9:50, FolH 208, Stöckenström

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Social Work (SW)

(400 Ford Hall: 624-5888)

College of Human Ecology

Textbooks for most SW courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

William Bradshaw, Education Specialist

Jane Macy, Education Specialist

Donna Marget, Lecturer

Maura Sullivan, Instructor

SW 1001 INTRODUCTION TO SOCIAL WELFARE AND COMMUNITY SERVICES. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Fields of community-based social services, representative of societal responses to needs. Characteristics of such services reviewed historically, dynamically, and comparatively. (No prereq. Limited to 25)

First 5 wk, ★Sec 50, TTh, 4-6:30, FordH 170, Macy

SW 5010 SEMINAR: SPECIAL TOPICS—HUMAN BIOLOGY AND SOCIAL WORK. 3 credits, tuition*: Resident \$286.50; Non-resident \$830.85; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

Basic concepts in developmental biology will be presented, including their interaction with psychological and socio-cultural factors. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 25)

First 5 wk, ★Sec 50, MW, 4-7, FordH 170

SW 5010 SEMINAR: SPECIAL TOPICS—DEPRESSION: NEW DEVELOPMENTS IN CLINICAL CARE. 3 credits, tuition*: Resident \$286.50; Non-resident \$830.85; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

Theories and research on the origins of depressive illness. Therapeutic procedures in assessment, diagnosis, and intervention. Focus on understanding the use of medications and psychotherapy in treating persons living with the disorder. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 25)

First 5 wk, ★Sec 51, MW, 4-7, FordH 150, Bradshaw

SW 5028 SOCIAL WORK IN THE SCHOOLS.

3 credits, tuition*: Resident \$286.50; Non-resident \$830.85; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

Prepares students to apply social work methods and skills in a school setting. Emphasis will be placed on developing clinical skills, consultation, advocacy, and use of community resources as a school social worker. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 25 at each site)

Spec Term, ★Sec 50, MTWThF, June 23-27, 9 a.m.-4:30, Moorhead, Marget

Spec Term, ★Sec 51, MTWThF, August 4-8, 9 a.m.-4:30, Rochester, Marget

SW 5601 ETHNO-CULTURAL CONCEPTS IN SOCIAL WORK PRACTICE. 4 undergraduate credits, tuition*: Resident \$382; Non-resident \$1107.80. 3 graduate credits, tuition*: Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

Relation of ethno-cultural concepts to the development of social welfare policies and services, and social work practice. Critical examination of commonalities of principle and cross-ethnic issues that integrate ethno-cultural dimensions and identification of significant orientations toward welfare issues and practices among the four major ethnic minority groups of color (American Indian, Asian American, black, Hispanic). The contribution of each to effective interpersonal and intra-group relationships with the social service delivery system will be discussed. **For Hennepin County Community Service social workers who are earning 27 graduate credits, this course meets the core requirement for ethno-cultural concepts.** (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 25)

First 5 wk, ★Sec 50, TTh, 4:45-7:45, Henn Co Govt Ctr

SW 5601 meets in room 1700-A, Hennepin County Government Center. Parking usually is available after 4 p.m. weekdays in the Hennepin County underground garage for \$2 maximum.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

SW 5970 INDEPENDENT STUDY IN SOCIAL WORK. Credits arr, tuition* each credit: Resident \$95.50; Non-resident \$276.95; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Independent study in areas of special interest to students and faculty. (Prereq written #. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, Arr
Second 5 wk, Sec 51, Arr

SW 8010 FIELD INSTRUCTION I. Cr arr. Tuition each credit*: Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Students must be enrolled in the Weekend M.S.W. Option. Must be taken S-N. (No prereq. Open only to students admitted to the University of Minnesota Graduate School)

First 5 wk, Sec 50, Arr, Sullivan
Second 5 wk, Sec 51, Arr, Sullivan

SW 8020 FIELD INSTRUCTION II. Cr arr. Tuition each credit*: Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Field practice in social work process under direct supervision. *Students must be enrolled in the Weekend M.S.W. Option. Must be taken S-N.* (Prereq 8010. Open only to students admitted to the University of Minnesota Graduate School)

First 5 wk, Sec 50, Arr, Sullivan
Second 5 wk, Sec 51, Arr, Sullivan

SW 8030 FIELD INSTRUCTION IN SOCIAL WORK III. Cr arr. Tuition each credit*: Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Field experience in social work process under direct supervision. *Students must be enrolled in the Weekend M.S.W. Option. Must be taken S-N.* (Prereq 8020. Open only to students admitted to the University of Minnesota Graduate School)

First 5 wk, Sec 50, Arr, Sullivan
Second 5 wk, Sec 51, Arr, Sullivan

Sociology (Soc)

(909 Social Sciences: 624-4300)

College of Liberal Arts

Textbooks for most Soc courses are available at University of Minnesota Bookstore—West Bank (625-3000)

John Arthur, Associate Professor

Continuing Education for Women (CEW) section available in the following course: Soc 3501

Soc 1001 INTRODUCTION TO SOCIOLOGY. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Introduction to the scientific study of social behavior. Overview of the major theories, methods, concepts, and research findings. Examination of the characteristics of the basic social units (social relations, groups, organizations, institutions, society), their patterns of interrelation, and processes of change. (No prereq)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 135

Soc 1003 SOCIAL PROBLEMS. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Sociological analysis of major contemporary problems; theory behind the causes, discussion of methods for studying them, and analysis of potential solutions. Problems may include poverty, racial discrimination, inequality, sex roles, crime, drugs, population problems, and pollution. (No prereq)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 350

Soc 3101 INTRODUCTION TO AMERICAN CRIMINAL JUSTICE. 4 credits, §CJS 3101, tuition*: Resident \$382; Non-resident \$1107.80.

Components and dynamics as well as philosophical underpinnings of the criminal justice system. (No prereq)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 240

Soc 3201 PRINCIPLES OF SOCIAL PSYCHOLOGY. 5 credits, §3506, tuition*: Resident \$477.50; Non-resident \$1384.75.

Ideas and findings related to social psychology; experience in developing empirically based knowledge in social science. *Required course for soc majors.* (Prereq 1001 or equivalent. Lectures meet concurrently)

Second 5 wk, Sec 50, Lect MW, 6-8, BlegH 215;
Lab MW, 4:45-5:45, BlegH 215*

Second 5 wk, Sec 51, Lect MW, 6-8, BlegH 215;
Lab MW, 8:15-9:15, BlegH 215*

* No lab meets the first night

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Soc 3501 THE FAMILY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

The family in contemporary American society with attention to historical and cross-cultural comparisons; interrelationships with other social institutions, socialization, patterns of mate selection, life cycle processes, and norms of human sexuality. (Prereq 1001 or #)

First 5 wk, Sec 50, MW, 9-11:30 a.m., MacP.

Offered through Continuing Education for Women

Soc 3951 COMPARATIVE ETHNIC GROUP RELATIONS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Theories of ethnic stratification. Relations of minorities and elites viewed in historical and cross-cultural comparative perspective, examining the United States and other countries (e.g., South Africa, Mexico). (Prereq 1001 or #)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 240

Soc 5102 CRIMINOLOGY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Nature and types of crime, problems in measurement of incidence and trends, and review of sociological theories of crime causation. Implications for crime prevention and control. (Prereq 3101-3102 or #. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 250, Arthur

Soil Science (Soil)

Soil, Water, and Climate

College of Agricultural, Food, and Environmental Sciences

(439 Borlaug Hall: 625-7747)

Textbooks for most Soil courses are available at University of Minnesota Bookstore—St. Paul (624-9200)

Terence H. Cooper, Professor

(See also *Natural and Physical Sciences* in the Compleat Scholar noncredit section of this bulletin)

Soil 5020 ENVIRONMENTAL IMPACT ASSESSMENT. 4 credits, tuition*: Resident \$398; Non-resident \$1154.20; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

Roles of governmental agencies, consultants, and private citizens. Steps needed to write an environmental impact statement (EIS). Examining case studies, writing additional components of EIS, and preparing an EIS for a small local project. (No prereq. Qualified students may register for graduate credit at the University of Minnesota)

Spec Term, Sec 50, TTh, 1-4, June 17-July 22, BorH 375, StP Campus, Cooper

South Asian Languages and Cultures (SALC)

(192 Klaeber Court: 624-3331)

College of Liberal Arts

(Linguistics & Asian & Slavic Languages & Literatures)

Textbooks for most SALC courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

No SALC courses offered through Extension Classes summer 1997

Spanish (Span)

(34 Folwell Hall: 625-5858)

College of Liberal Arts

Textbooks for most Span and Port courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Fernando Arenas, Assistant Professor

René Jara, Professor

Carol A. Klee, Associate Professor and Chair

Louise Mirrer, Professor

Francisco Ocampo, Associate Professor

Joanna O'Connell, Associate Professor

Luis Ramos-García, Assistant Professor

Antonio Ramos-Gascón, Professor

Nicholas Spadaccini, Professor

Constance Sullivan, Associate Professor

Hernán Vidal, Professor

Anthony N. Zahareas, Professor

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Reading Spanish: Span 0221 is specifically designed for individuals who desire only a reading knowledge of the language. The Spanish language requirements for a graduate degree also may be satisfied by successfully passing an examination given at the end of the course. Graduate students should check with their advisers for specific language requirements in their field of study.

Span 0221 READING SPANISH. No credit, tuition*: \$338. (IDL)

This course is designed solely to impart a basic reading knowledge of the Spanish language; full time is devoted to intensive reading and translation of a variety of texts. Since this approach deals with only one aspect of the language, reading, great skill can be acquired in a short time. At the end of the one quarter the student may take the equivalent of the Spanish Graduate Reading Examination. The department will certify to the Graduate School a reading knowledge of Spanish upon successful completion of this examination. **Must be taken S-N.** (No prereq)

First 5 wk, Sec 50, TTh, 6-8:30, FolH 116

Span 1101-1102-1103 BEGINNING SPANISH. 5 credits each term, tuition* each term: Resident \$422.50; Non-resident \$1225.25. (IDL)

Basic listening, speaking, reading and writing skills. Stress on the development of communicative competence. Some cultural readings. (No prereq for 1101; 1101 or # for 1102; 1102 or # for 1103. Limited to 25)

First 5 wk, 1101, ★Sec 50, MTWTh, 6-8:50, FolH 419

Second 5 wk, 1102, ★Sec 50, MTWTh, 6-8:50, FolH 334

Ten wk, 1103, ★Sec 50, MW, 6-8:50, FolH 116

Span 1104 INTERMEDIATE SPANISH. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

Speaking and comprehension; development of reading and writing skills based on materials from Spain and Spanish America. Grammar review; compositions and oral presentation. (Prereq 1103 or 1205. Limited to 25)

First 5 wk, ★Sec 50, MTWTh, 6-8:50, FolH 344

Ten wk, ★Sec 51, TTh, 6-8:50, FolH 134

Span 1105 INTERMEDIATE SPANISH. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

For description, see 1104. (Prereq 1104 or #. Limited to 25)

Second 5 wk, ★Sec 50, MTWTh, 6:10-8:50, FolH 50

Span 1106 INTERMEDIATE SPANISH. 5 credits, tuition*: Resident \$422.50; Non-resident \$1225.25. (IDL)

For description, see Span 1104. (Prereq 1105 or #. Limited to 25)

Ten wk, ★Sec 50, MW, 6-8:50, FolH 134

Span 3015 SPANISH COMPOSITION AND COMMUNICATION. 5 credits, tuition*: Resident \$477.50; Non-resident \$1384.75.

Emphasis on the development of communication skills, i.e. the ability to comprehend both written and spoken texts, and to speak and write in Spanish beyond the intermediate level. (Prereq 1106 or equivalent and Graduation Proficiency Exam. Limited to 20)

Ten wk, ★Sec 50, MW, 6-8:50, FolH 340

Span 3614 DON QUIXOTE: A STUDY OF LOST ILLUSIONS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Analysis of Cervantes' *Don Quixote* and an examination of its reception from early 1600s to modern times. Book's reception in Spanish America. Taught in English. *May not be used for Spanish or Portuguese major credit.* (No prereq. Limited to 50)

First 5 wk, ★Sec 50, TTh, 6-8:30, FolH 340

Span 3615 LITERATURE AND FILM. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Artistic techniques and social content in literature and cinema of Spanish- and Portuguese-speaking worlds. Taught in English and Spanish. (No prereq. **May not be used for Spanish or Portuguese major credit.** Limited to 50)

Second 5 wk, ★Sec 50, TTh, 6-8:30, FolH 116

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

Speech-Communication (Spch)

(460 Folwell Hall: 624-5800)
College of Liberal Arts

Textbooks for most Spch courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Spch 1101 INTRODUCTION TO PUBLIC SPEAKING. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Basic understanding of oral communication processes and elements. Criticism of and response to oral discourse. Individual speaking. (No prereq. Limited to 21)

First 5 wk, ★Sec 50, MW, 6-8:30, FolH 312

First 5 wk, ★Sec 51, TTh, 6-8:30, FolH 312

Second 5 wk, ★Sec 52, TTh, 6-8:30, FolH 312

Spch 1313 ANALYSIS OF ORAL ARGUMENT. 4 credits, tuition*: Resident \$338; Non-resident \$980.20.

Strategies for analyzing and evaluating arguments received aurally. Problems in listening and responding to argument. (No prereq. Limited to 21)

First 5 wk, ★Sec 50, TTh, 6-8:30, FolH 318

Second 5 wk, ★Sec 51, MW, 6-8:30, FolH 312

Spch 3411 SMALL GROUP COMMUNICATION PROCESSES. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Cooperative thinking in task-oriented groups. Planning, preparing for, and participating in small groups in private and public contexts. May require group meetings outside regularly scheduled class hours listed below. (Prereq 1101 or #. Limited to 22)

First 5 wk, ★Sec 50, MW, 6-8:30, FolH 318

Second 5 wk, ★Sec 51, TTh, 6-8:30, FolH 318

Spch 3441 COMMUNICATING IN ORGANIZATIONS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Theory and practice of communicating in organizations. How communication creates, maintains, and changes organizational culture. Role of individual communicator in organizational culture. (Prereq 1101 or equivalent. Limited to 25)

Second 5 wk, ★Sec 50, MW, 6-8:30, FolH 318

Statistics (Stat)

(270a Vincent Hall: 625-8046)
College of Liberal Arts

Textbooks for most Stat courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Stat 3091 INTRODUCTION TO PROBABILITY AND STATISTICS. 4 credits, \$5121, \$5131, tuition*: Resident \$382; Non-resident \$1107.80.

Elementary probability and probability distributions, sampling and elements of statistical inference. (Prereq differential and integral calculus. Limited to 40)

Ten wk, ★Sec 50, T, 6:15-8:45, VinH 1

Study Skills

See Learning and Academic Skills, page 45. See also pages 76-79.

Textiles and Clothing

See Design, Housing, and Apparel (DHA)

Translation and Interpreting (TrIn)

(133 Klaeber Court: 624-4055)

College of Liberal Arts
(Linguistics & Asian & Slavic Languages & Literatures)

Textbooks for most TrIn courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Bruce Downing, Associate Professor of Linguistics

Pamela Sherwood Gabrielson, Teaching Specialist

Vyacheslav Ponomarenko, Visiting Associate Professor of Linguistics

Laurie Swabey, Teaching Assistant

Curriculum in Translation and Interpreting—

Students who have strong language skills in English and a language other than English can earn academic credit by completing a pre-professional program designed as a preparation for employment in translation and interpreting. No major or minor is offered through this program, and the courses are presently available only through the Department of Extension Classes. Instructional staff includes cer-

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

tified interpreters and experienced bilingual professionals. *Courses are offered contingent on sufficient enrollment for persons bilingual in the following language pairs: English-Russian and English-Spanish. Other languages may be added if there is sufficient demand.*

For more information about the program, telephone (612) 624-4055.

TrIn 3001 INTRODUCTION TO TRANSLATION. 3 credits, tuition*: Resident \$286.50; Non-resident \$830.85.

An introductory course in translation, oriented toward the translation of everyday documents of the sort that bilinguals working in the community are asked to translate. Course includes both theory and supervised practice. As an exercise in re-expressing meaning in a second language, the course will be a good preliminary to training in interpreting. Open to anyone with adequate skills in English and either Russian or Spanish. Register by language. A section will be offered only if a minimum of 10 students enroll in that section. (Prereq #. Sections 50 and 51 meet separately)

Ten wk, Sec 50, Spanish, T, 6:10-9, FolH 426

Ten wk, Sec 51, Russian, W, 6:10-9, FolH 214, Ponomarenko

TrIn 5910 TOPICS IN TRANSLATION STUDIES: TERMINOLOGY MANAGEMENT. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80; Resident Graduate credit \$510; Non-resident Graduate credit \$1122; Resident Graduate School credit \$918; Non-resident Graduate School credit \$2019.60.

(No prereq. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, T, 6:10-9, FolH 214, Downing

Women's Studies (WoSt)

(489 Ford Hall: 624-6006)

College of Liberal Arts

Textbooks for most WoSt courses are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000)

Jacquelyn N. Zita, Associate Professor

Continuing Education for Women (CEW) section available in the following course: WoSt 3304

WoSt 3102 FEMINIST THOUGHT AND THEORY. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Representative feminist theories and their relation to social and political action. *Satisfies the Liberal Education requirement for Arts and Humanities.* (No prereq. Limited to 40)

Second 5 wk, ★Sec 50, TTh, 5:30-8, FordH 175

WoSt 3202 BIOLOGY OF WOMEN. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80. (IDL)

A study of the biological aspects of the female life cycle from early development to old age. Special attention is given to significant features of a typical female life course. *Satisfies Liberal Education Requirement: Physical and Biological Sciences.* (No prereq. Limited to 40)

Second 5 wk, ★Sec 50, MW, 5:30-8, FordH 150

WoSt 3304 WOMEN AND THE ARTS. 4 credits, tuition*: Resident \$382; Non-resident \$1107.80.

Works of art by or about women with a focus on one or more forms of artistic expression. *Satisfies the Liberal Education requirement for Arts and Humanities.* (Prereq introductory work in music or art or drama or dance or film or other arts. Limited to 40)

First 5 wk, ★Sec 50, TTh, 9-11:30 a.m., MacP.
Offered through Continuing Education for Women

WoSt 3400 TOPICS: WOMEN IN POPULAR CULTURE. 4 credits (max 12 cr), tuition*: Resident \$382; Non-resident \$1107.80.

Analysis of the images of women in film, video, popular music, and television. How these cultural representations affect women's sense of possibility and future. What they say about gender in America, about power, race, and class. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, TTh, 5:30-8, FordH 150

WoSt 5330 HIGH SCHOOL IN THE MOVIES: FILM STUDIES OF SEX, RACE, AND GENDER. 3 credits, tuition*: Resident \$286.50; Non-resident \$830.85; Resident Graduate credit \$382.50; Non-resident Graduate credit \$841.50; Resident Graduate School credit \$688.50; Non-resident Graduate School credit \$1514.70.

A course which is part of the Women's Studies Teachers' Institute but open to others not registered in the Institute. Through a study of how different decades and filmmakers have represented teenagers and their high school experiences, the course explores high schools as institutions where the social relations of sex, race, and gender are solidified

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* Tuition definitions of Resident and Non-resident explained on page 97.

Course Descriptions

and contested in such institutional settings. Films are also open to the general public with screenings that begin at 7:15 p.m. in conjunction with the U Film Society. *There will be a \$4 charge for each of the eight nights the class meets; payable at the door to the U Film Society.* (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 40)

Spec Term, ★Sec 50, MTWThF, June 23, 24, 25, 26, 27, 30, July 1, 2, 5:30-9, U Film Society, NichH, Zita. *No late fee through June 16.*

Work, Community, and Family Education (WCFE)

(R350 Vocational/Technical Building: 624-1221)
College of Education and Human Development
Work, Community, and Family Education

Textbooks for most VoEd courses are available at University of Minnesota Bookstore—St. Paul (624-9200)

National Youth Leadership Council's Eighth Annual Summer Service-Learning Teacher Institute

July 28 to August 1, 1997
Wilder Forest Retreat Center,
Stillwater, Minnesota

SPECIAL TOPICS IN INSTRUCTION: SUMMER SERVICE-LEARNING TEACHER INSTITUTE (WCFE 5100, 3 credits). Experientially based course for educators interested in integrating service-learning into the school curriculum, co-curricular activities, or youth agencies. Course covers rationale, philosophy, and purposes of service-learning in schools and youth-serving agencies; design, development, and implementation of curriculums and programs in which young people serve their communities; and exploration of learner outcomes and evaluation/assessment of projects. Instructor is Pamela Toole. (No prereq. Qualified students may register for graduate credit at the University of Minnesota)

To register, and for course information regarding tuition, fees, space availability, graduate credit, times, and details of course content, contact the National Youth Leadership Council, 1910 W. Cty Rd B, Roseville, MN 55113; telephone (612) 631-3672.

Youth Studies (YoSt)

(386 McNeal Hall: 624-3700)
College of Human Ecology
(School of Social Work)

Textbooks for most YoSt courses are available at University of Minnesota Bookstore—St. Paul (624-9200)

Walter Bera, Lecturer
Mary K. Burnison, Coordinator and Instructor
Jean Greenwood, Lecturer
Jack Kirkland, Visiting Professor

YoSt 5120 INDEPENDENT STUDY IN YOUTH STUDIES. Credits arr (maximum 12 cr), tuition* each credit: Resident \$95.50; Non-resident \$276.95; Resident Graduate credit \$127.50; Non-resident Graduate credit \$280.50; Resident Graduate School credit \$229.50; Non-resident Graduate School credit \$504.90.

Independent reading and/or research under faculty supervision. **No late fees for Independent Study.** (Prereq #. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, Arr, Burnison
Second 5 wk, Sec 51, Arr, Burnison

YoSt 5130 SPECIAL TOPICS: YOUTH CONFLICT RESOLUTION SKILLS. 3 credits, tuition* (includes \$10 course fee): Resident \$296.50; Non-resident \$840.85; Resident Graduate credit \$392.50; Non-resident Graduate credit \$851.50; Resident Graduate School credit \$698.50; Non-resident Graduate School credit \$1524.70.

The development of skills required to effectively manage and resolve conflicts that youth face in families, communities, schools, and work places. Experientially based class provides practice and preparation for beginning abilities in negotiation and/or mediation. (Prereq 6 cr in social sciences, experience in youth work or teaching. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Spec Term, ★Sec 50, F, 6-9, July 25; Sa, 9 a.m.-3, July 26; MWF, 6-9, July 28, 30, Aug. 1, 4, 6, McNH 386A, StP Campus, Greenwood. *No late fee through July 18.*

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

YoSt 5232 WORK WITH YOUTH—GROUPS.

3 credits, tuition* (includes \$10 course fee): Resident \$296.50; Non-resident \$840.85; Resident Graduate credit \$392.50; Non-resident Graduate credit \$851.50; Resident Graduate School credit \$698.50; Non-resident Graduate School credit \$1524.70.

Helps practitioners with adolescents learn to increase their knowledge and understanding of adolescent group needs and associations, increase knowledge of group process, and enhance skill in working with groups of adolescents in the community, in group living situations, and in group therapy. Class meets three full days. (Prereq 5230. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

Spec Term, ★Sec 50, FSaM, 8:30 a.m.-4:30, July 18, 19, 21, McNH 386A, StP Campus, Kirkland.
No late fee through July 11

YoSt 5401 COMMUNICATING WITH ADOLESCENTS ABOUT SEXUALITY.

3 credits, tuition* (includes \$10 course fee): Resident \$296.50; Non-resident \$840.85; Resident Graduate credit \$392.50; Non-resident Graduate credit \$851.50; Resident Graduate School credit \$698.50; Non-resident Graduate School credit \$1524.70.

Sexual development and experience, emphasizing how adults can be comfortable to communicate more effectively with young people. Sexual patterns, variations, roles, power, exploration, sex education. (Prereq 6 cr in social sciences, experience with youth. Qualified students may register for graduate credit at the University of Minnesota. Limited to 24)

Spec Term, ★Sec 50, FSaM, 8:30 a.m.-4, June 20, 21, 23, McNH 386A, StP Campus, Bera. *No late fee through June 13.*

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

* Tuition definitions of Resident and Non-resident explained on page 97.

Noncredit Courses

Compleat and Practical Scholar (see below)

Compleat Scholar Weekends (see page 82)

Research Explorations (see page 85)

Credit courses are listed beginning on page 12.

UNIVERSITY OF MINNESOTA



COMPLEAT & PRACTICAL SCHOLAR

Telephone 624-8880 for information.

The Compleat Scholar and Practical Scholar programs offer a comprehensive curriculum of University learning without credit. These programs provide a combination of introductory courses about a wide range of topics and advanced courses that allow participants to investigate in greater depth areas with which they are already familiar.

Compleat Scholar (CSch)—a lively mix of noncredit courses in the arts, humanities, social sciences, writing, literature, and natural and physical sciences. See below for more information, or go directly to the course descriptions beginning on page 68.

Practical Scholar (PSch)—your dependable source for noncredit applied-knowledge and skill-building courses in areas such as public relations; communication and language; human development and relationships; financial, consumer, and wellness information; career, academic, and test planning; home, garden, and landscape topics. See page 80 for more information,

or go directly to the course descriptions beginning on page 76.

Tap your talents and energy with the help of outstanding instructors, and choose a format—lectures and discussions, field trips and studio tours, gallery walks and laboratory sessions—that suits your learning style.

Compleat and Practical Scholar courses are usually scheduled for three to eight meetings and do not include grades or exams. There are no admission or entrance requirements; students need only a desire to learn. Registration in some classes, however, may require prerequisite courses or experience.

See page 68 for CSch offerings and page 76 for PSch offerings.

Cooperative Noncredit Courses

Many Compleat and Practical Scholar courses are offered in cooperation with other University and non-University educational resources. Special tuition discounts may be offered to members of those re-

sources, and classes usually meet at their respective locations. See the descriptions of the courses listed below for specific information.

Walker Art Center	CSch 0118
Minnesota Museum of American Art	CSch 0465
Minnesota Landscape Arboretum	PSch 0961, 0962, 0996
Woman's Club of Minneapolis	CSch 0477, 0980
Frederick R. Weisman Art Museum	CSch 0120
Minnesota Historical Society	CSch 0119, 0316

Call 624-8880 to request maps and directions to off-campus classroom sites.

Registration in Compleat and Practical Scholar Courses

Unless otherwise noted, registration procedures, dates, and locations are the same as for credit registration. See the When and How to Register section of this Bulletin for details. Late registrations for noncredit classes must be accompanied by a late fee. See page 5. Late registration dates are listed with each course description. See page 82 for Compleat Scholar Weekend registration information.

Books for Compleat and Practical Scholar Courses

When books are suggested or required for a class, they will usually be available for purchase at University of Minnesota Bookstore—East Bank in Williamson Hall. See bookstore hours on page 10.

Tuition for Compleat and Practical Scholar Courses

See course descriptions below for tuition charges.

University employees who wish to take noncredit classes must pay half the regular

tuition plus any special costs or fees (Compleat Scholar Weekends not included). 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 the course is held if on a 9-month or 11-month appointment; and those on maternity or other leaves without pay. Employees on student appointments, family members of University employees, and laid-off employees are not eligible for this reduced tuition plan. When registering, employees must submit a letter from their supervisor or the head of their department verifying employment. For limited-enrollment classes, employee registrations will be accepted starting the last two weeks of in-person registration. For nonlimited classes, employees may register during the regular registration periods. Additional restrictions may apply for some courses.

Persons 62 and older receive a 10-percent discount on many noncredit classes. When available, the discount is listed in the course price information. **Persons who have current memberships** with Walker Art Center, Minneapolis Institute of Arts, Woman's Club of Minneapolis, Frederick R. Weisman Art Museum, Minnesota Historical Society, Minnesota Museum of American Art, and Minnesota Landscape Arboretum receive 10-percent discounts in classes offered cooperatively with these organizations (see individual course descriptions for tuition). Only one 10-percent discount may be applied to each registration. Participants pay full course and special fees, if any.

No third-party billing is permitted for noncredit classes. Please enclose a check or money order or credit card authorization for payment (see registration form for details).

Refund Schedule for Compleat and Practical Scholar Courses

Students who wish to cancel registration in a course must do so officially, either in person, by fax, by telephone conversation, or by writing to Compleat and Practical Scholar, 206 Wesbrook Hall, University of Minnesota, 77 Pleasant Street S.E., Minneapolis, MN 55455. **Refund requests for one- or two-day classes or seminars must be received in writing or in person three working days in advance of the first class.**

1-session class	100% before class meets None after class has met
2-session class	100% before class meets None after first class
3-4 session class	100% before class meets 50% before second class None after second class
5 or more sessions	100% before class meets 75% before second class 50% before third class None after third class

Registrants who fail to attend or to cancel properly are liable for the entire fee. Late fees are not refundable in any case.

See page 82 for Compleat Scholar Week-ends refund policy.

The Compleat Scholar summer course offerings

Art and Architecture

CSch 0118 FRANK STELLA: ARTIST AS ANTI-HERO. No credit, \$35 (age 62 and WAC members, \$31.50).

Take a look at the work and persona of artist Frank Stella. Gain insights into his role in the shift from heroic abstract painting in the early 1950s to the detached, formalist minimalism in the 1960s. Examine Stella's contribution to the idea of artist as anti-hero and review work by his contemporaries,

including Robert Rauschenberg, Jasper Johns, and Andy Warhol. In conjunction with the Walker Art Center's Frank Stella exhibition featuring Tyler Graphics and other recent work (May 18-August 24), study not only his earlier art, but also his later production. (Offered in cooperation with the Walker Art Center. Both WAC and Compleat Scholar will accept registrations. Limited to 40)

Spec Term, ★Sec 50, Th, 6:30-8:30, June 19-26 (2 meetings), Walker Art Center, Lecture Room, Vineland Place, Mpls. *No late fee through June 12.* (Diane Mullin is a doctoral candidate in art history at Washington University, and her dissertation focuses on Robert Rauschenberg's early work and abstract expressionism. Broader research interests include post-World War II art, with extensive work in feminist art history and theory)

CSch 0119 MINNESOTA'S NEW DEAL ART. No credit, \$53 (age 62 and MHS members, \$47.70).

Artists in Minnesota participated fully in the current styles and social movements of the Depression era. Examine the ideals, individuals, and art works of Minnesota in the years between the Great Crash of 1929 and World War II. The class will view this topic not as a short-lived WPA art phenomenon, but as a wide-ranging expression of ideals that first developed in the state around 1900, and continues to inform Minnesota's art world today. (Offered in cooperation with the Minnesota Historical Society. Limited to 25)

Spec Term, ★Sec 50, W, 1-3, June 18-July 2 (3 meetings), Minnesota History Center, 345 W Kellogg Blvd, StP. *No late fee through June 11.*

(Thomas O'Sullivan, curator of art at the Minnesota Historical Society since 1980, has researched and collected New Deal art, interviewed artists who worked on the New Deal projects, and published articles on their work)

CSch 0120 FROM HEROES ON HORSEBACK TO GREEN CHAIRS: A TOUR OF PUBLIC ART IN HISTORY AND IN THE TWIN CITIES. No credit, \$58 (age 62 and FRW members, \$52.20).

Historically, when we think of public art, imposing stone or bronze monuments of generals, poets, and politicians come to mind. Today, artists working in the public realm have created new ways of thinking, creating, and expressing the meanings of monument, memorial, and other forms of public art. The result has been a variety of dynamic art forms that connect with and express community values and viewpoints. In Minneapolis, for example, Joel Sisson's ongoing effort called "The Green Chair Project" builds community by employing inner city youth to build Adirondack chairs for front lawns. In a class at the

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

Weisman Art Museum, join three arts professionals in reviewing the history of public art and its more recent innovative developments that make it an exciting area in contemporary art. After a first-session overview, tour public art at the University of Minnesota, including the Weisman Sculpture Plaza Project, and then travel by van the following week to public arts projects in several Minneapolis neighborhoods. This class is held in conjunction with the upcoming installation of artist Kaveh Shakikhan's piece for the Weisman Sculpture Plaza and a related exhibition of his recent work. (Offered in cooperation with the Frederick R. Weisman Art Museum. Limited to 19)

Spec Term, ★Sec 50, W, 6-8, July 23-Aug. 6 (3 meetings), WeismanArt, Billy and Jody Weisman Family Seminar Room. *No late fee through July 16.*

(Colleen Sheehy, director of education at the Weisman Art Museum, holds a Ph.D. in American Studies and is a board member of FORECAST Public Artworks. In her work on American art and vernacular landscapes, the contours and dynamics of a visible public culture have been central concerns. Gülgün Kayim is coordinator of the University of Minnesota's Public Art on Campus Program, operated through the Weisman Art Museum. With an M.F.A. in theatre directing and an M.A. in theatre theory and history, she is particularly interested in emerging genres of public art. Jack Becker is an artist and founder and project manager of FORECAST Public Artworks, an arts organization based in the Twin Cities that has made a major impact on the visibility and advancement of public art both locally and nationally through grant programs and the publication of Public Art Review)

CSch 0143 CONTOUR AND GESTURE DRAWING. No credit, \$106 (age 62, \$95.40).

If you can hold a pencil and like to scribble or doodle, you can learn techniques to allow you to capture the form and character of a subject. In a variety of settings—still life, an outdoor session, and a figurative class with a live model—practice using gesture and contour approaches in your drawing. Learn methods of building tonal value scale and steps in founding foundation work into finished drawings. Explore your own natural style in a class combining lecture, demonstrations, and drawing exercises. Materials include pencil, charcoal, and conte crayon; course supply list will be sent to registered students. (Limited to 20)

Spec Term, ★Sec 50, T, 6:30-9, July 8-Aug. 5 (5 meetings), ArtB 151. *No late fee through July 1.*

(Kenneth Wenzel completed an M.F.A. at the San Francisco Art Institute. Since 1989 he has taught drawing and painting classes to adults and children in several Twin Cities sites, including the Minneapolis

Institute of Arts. His work has been exhibited in a variety of venues across the United States)

CSch 0144 CARTOONING WORKSHOP. No credit, \$82 (age 62, \$73.80).

A workshop for people with some drawing experience and ability. The course focuses on the printed cartoon as it appears in newspapers, magazines, comic books, advertising, and greeting cards; it will not cover animation or caricature. Begin with a history of cartooning, cartoon types and uses, and information about basic cartoon supplies and materials. Then learn about idea generation, creating cartoon characters, developing the cartoon panel, designing props and backgrounds, lettering techniques and balloons, and sequential art. Necessary supplies discussed at first session and needed for use in subsequent sessions. (Limited to 20)

Spec Term, ★Sec 50, Sa, 9 a.m.-12, July 26-Aug. 9 (3 meetings), Gloria Dei Lutheran Church, 700 So. Snelling, St. Paul. *No late fee through July 18.*

(Duane Barnhart, professional cartoonist and free-lance illustrator, has created advertising cartoons for various large companies and illustrated children's books for several publishers. His work has appeared in publications such as The Saturday Evening Post and Minneapolis/St. Paul Magazine. He has taught cartooning to adults and children in his Twin Cities studio and at Minnesota colleges)

CSch 0157 CRAZY BEADING. No credit, \$68 plus \$6 special fee. Total \$74 (age 62, \$61.20 plus \$6 special fee. Total \$67.20).

Discover how to replicate traditional Crazy Quilting needlework techniques with seed beads, and use several techniques developed by the instructor for adding bead embellishments to fabric surfaces. Many traditional embroidery stitches can be transformed into seed bead patterns on fabric. Learn successful beading techniques on counted canvas, as well as beaded quilting and trapunto techniques. Develop a sampler of beading techniques to decorate clothing, accessories, and quilts. All experience levels are welcome. Materials fee of \$6 provides for necessary beads, needles, thread, muslin, batting, and fiberfill. Bring your lunch. Registered students will receive a supply list for supplemental items. (Limited to 16)

Spec Term, ★Sec 50, Sa, 9 a.m.-5, June 21 (1 meeting), McNH 212, StP Campus. *No late fee through June 16.*

(Nancy Eha, beadwork artist and educator, has exhibited her flamboyant, innovative beadwork in numerous national exhibits. She is currently president of the Upper Midwest Bead Society, and author of Off the Beadin' Path)

Noncredit Courses

CSch 0164 INTRODUCTION TO INTAGLIO: STUDIO WORKSHOP. No credit, 144 plus \$29 special fee. Total \$173 (age 62, \$129.60 plus \$29 special fee. Total \$158.60).

Intaglio prints use copper, zinc, or plastic plates which are inscribed to hold ink below the plate's surface; the plates are then inked and printed on an intaglio press. This workshop offers an introduction to traditional intaglio printmaking including etching and drypoint. Through slides, examples, demonstrations, and hands-on studio work, learn to prepare, etch, and print a copper plate. Students should bring a sketch pad to class to experiment with simple design ideas. All classes are held at the instructor's Minneapolis studio; directions provided to registrants prior to first class. (Limited to 14)

Spec Term, ★Sec 50, T, 6:30-9, June 17 - July 22 (6 meetings), Arr. *No late fee through June 10.*

(Leigh Ann Beavers, who received her M.F.A. in printmaking from the University of Wisconsin, Madison, is a printmaker who lives and works in Minneapolis. She received a Minnesota Arts Board Fellowship in 1996)

Music, Theatre, Film, and Photography

CSch 0214 HOW THE WORLD MAKES MUSIC. No credit, \$99 (age 62, \$89.10).

Musical instruments—the integration of beauty and human ingenuity. Explore a panorama of sounds in music making from all over the world. In conjunction with The Schubert Club's Musical Instrument Museum, experience an opportunity to see and touch several instruments firsthand, such as a Japanese koto, Syrian oud, Bolivian charango, South African sassa, Slavic zurla, and many more. Through videos and discussion, focus on a different geo-cultural region (Asia, Africa, Europe, and the Americas) each week and examine the infinite variety of materials, ideas, sounds, and culture of music makers across the continents. Final session meets at The Schubert Club Musical Instrument Museum in St. Paul's Landmark Center. (Limited to 25)

Spec Term, ★Sec 50, T, 6:30-8:30, July 8-Aug. 5 (5 meetings), FergH 105. *No late fee through July 1.*

(Miriam Gerberg, ethnomusicologist, composer, educator, and concert producer, also performs classical Arabic music, Japanese oud, Eastern European accordion, and Javanese gamelan with The Schubert Club's own Minnesota gamelan)

CSch 0218 LEGENDARY SINGERS IN AMERICAN CLASSIC POP. No credit, \$99 (age 62, \$89.10).

Louis Armstrong, Bing Crosby, and Ethel Waters are the world-renowned originators of American popular singing. However, in the first decades of this century, "popular singers" as we have known them over the last 60 years, just did not exist. It took the emergence of jazz in the 1920s, and the development of the microphone and electronic amplification, to create the proper setting for the birth of the "jazz-pop" or "classic pop" tradition. Learn how these founding fathers (and mothers) set the scene for other legendary singers who followed, and review the important work of Billie Holiday, Frank Sinatra, Peggy Lee, Mel Torme, Ella Fitzgerald, Judy Garland, Fred Astaire, Tony Bennett, and others who expanded and enriched the "classic" tradition in American popular singing. (Limited to 30)

Spec Term, ★Sec 50, T, 6:30-8:30, June 17 - July 15 (5 meetings), FergH 107. *No late fee through June 10.*

(Arne Fogel is a singer, actor, broadcaster, writer, and entertainment historian. He has sung on over 1500 recording sessions for commercials, film soundtracks, and records, and is one of the Twin Cities best-known jazz-club singers. His radio credits include the series "Arne Fogel Presents" which ran for 12 years on Minnesota Public Radio)

CSch 0253 PHOTOGRAPHING GARDENS. No credit, \$58 (age 62, \$52.20).

Capture the ephemeral beauty of your garden on film. Learn the basics of landscape composition, how to work with natural light, and how to make stunning close-up photographs of individual plants. Participants need an interest in gardening, a 35 mm camera, and a basic understanding of 35 mm camera operation. Includes a Saturday morning field trip to the Minnesota Landscape Arboretum (**June 21; participants provide own transportation and may choose to carpool**) to explore photographing different garden types. *Participants should bring their camera equipment to the first class session.* (Limited to 22)

Spec Term, ★Sec 50, T, 7-9, June 17, July 1 (2 meetings plus field trip), VoTech R280, StP Campus. *No late fee through June 10.*

(Don Breneman is a photographer with the Minnesota Extension Service, and production manager and photographer for the award winning Minnesota Gardening Calendar. He is a photography judge for the Minnesota Horticultural Society and has had pictures published in the Minnesota Horticulturist, Fine Gardening, and American Nurseryman Magazine)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

CSch 0274 DIGITAL IMAGING WORKSHOP: PHOTOSHOP. No credit, \$725 plus \$75 special fee. Total \$800 (age 62, \$652.50 plus \$75 special fee. Total \$727.50). No other discounts available.

This hands-on course provides a firm foundation in digital imaging for print, multimedia, and Internet/Web applications in design, photography, fine art, graphics, communications, and business. Learn how to use Adobe Photoshop in a fully equipped Power Macintosh computer lab. Gain experience in scanning, Photo CD, and digital cameras. Perform correction and creative work on your own images and explore output options. Discuss principles and theories of digital imaging, including color theory, resolution, and photographic and pre-press formats, as well as aesthetic and design concerns through critiques of class projects. Visit local digital imaging facilities during two optional evening field trips. Materials provided include training book, instructor-developed educational CD-ROM with 65 photo images, and numerous handouts. (Familiarity with Macintosh or Windows computers is required. Those lacking previous photoshop or computer experience are requested to take CSch 0276 first. Limited to 11)

Spec Term, ★Sec 50, MTWThF, 9 a.m.-5, June 16-20 (5 meetings plus 2 field trips), BioSci 64, StP Campus. *No late fee through June 9.*

(David Husom, a professional photographer and digital imaging consultant, has been teaching photography and digital imaging courses for more than 20 years. Ann-Marie Rose has taught color separation and computer imaging for 10 years and is experienced in high-end pagination systems, laser scanners, and desktop systems. Her digital photographs have appeared in numerous publications. Together and individually, Husom and Rose have been keynote speakers at numerous conferences and have written and published educational material on digital imaging, including nearly a dozen CD-ROM titles)

CSch 0275 DIGITAL IMAGING WORKSHOP: MULTIMEDIA AND ELECTRONIC PUBLISHING. No credit, \$725 plus \$75 special fee. Total \$800 (age 62, \$652.50 plus \$75 special fee. Total \$727.50). No other discounts available.

An intensive course providing hands-on experience in multimedia creation for design, fine art, photography, education, business, and communications. Learn how to use Macromedia Director and SoundEdit, Adobe Photoshop and PageMill, and QuickTime to produce your own multimedia project for CD-ROM, the Internet/World Wide Web, kiosks, tutorials, or self-running

presentations. Visit local multimedia facilities during two optional evening field trips. Although geared to the Macintosh, the course is also highly relevant to Windows users. Materials provided include training book, instructor-developed educational CD-ROM with 65 photo images, and numerous handouts. (Familiarity with Macintosh or Windows computers is required. Those lacking previous photoshop or computer experience are requested to take CSch 0276 first. Limited to 11)

Spec Term, ★Sec 50, MTWThF, 9 a.m.-5, June 23-27 (5 meetings plus 2 field trips), BioSci 64, StP Campus. *No late fee through June 16.*

(See biographies for David Husom and Ann-Marie Rose in CSch 0274)

CSch 0276 PHOTOSHOP PREPARATORY. No credit, \$60 (age 62, \$54). No other discounts available.

This 4 hour introduction to Adobe Photoshop is available to students registered for one or both of this summer's Digital Imaging Workshops (CSch 0274 and CSch 0275). The class introduces Photoshop's tools and capabilities, and helps students improve their computer skills before beginning one of the week long workshops. It is strongly recommended for anyone not familiar with Photoshop, and/or lacking basic computer skills with Windows or Macintosh computers. (Limited to 11)

Spec Term, ★Sec 50, Su, 1-5, June 15 (1 meeting), BioSci 64, StP Campus. *No late fee through June 6.*

(See biographies for David Husom and Ann-Marie Rose in CSch 0274)

Social Sciences, Public Issues, and Humanities

CSch 0315 THE ISLANDS OF MINNEAPOLIS. No credit, \$52 (age 62, \$46.80).

Discover another chapter of Minneapolis history through a close look at life and happenings on several Mississippi River islands. Pike, Meeker, Spirit, Cataract, Upton, Hennepin, Boom, and Nicollet islands have varied and interesting histories. From spiritual associations of the Dakota and Ojibwe peoples through land claims, law suits, disasters, development, decay, and rediscovery, the stories of these islands illuminate the lively history of the river and the city that grew on its banks. Two evening classes are followed by a three-hour Saturday morning tour (**July 26, 9 a.m.-12**) exploring the islands by St. Anthony Falls. (Limited to 25)

Noncredit Courses

Spec Term, ★Sec 50, W, 6:30-8:30, July 9, 16 (2 meetings plus tour), HHHctr 30. *No late fee through July 2.*

(David Wiggins is program manager for the Minnesota Historical Society's St. Anthony Falls Interpretive Program. He has worked in historic site interpretation since 1970)

CSch 0316 SAFELIGHTS: AN ILLUMINATING LOOK AT AMERICA'S LIGHTHOUSES. No credit, \$34 (age 62 and MHS members, \$30.60).

Whether guiding ships at night or signaling through dense fog, these beacons have provided important service to oceangoing and Great Lakes vessels. Learn about lighthouses and the remote and sometimes hazardous lives of men and women who worked in them. What was it like for keepers' families to live next to a fog horn sounding every 20 seconds during foggy weather, and to row a skiff five miles for mail? Why were lightkeepers called "wickies"? What is a Fresnel lens and how does it work? Explore the amazing variety of lighthouses on the U.S. coasts and on the Great Lakes, including famous Split Rock Lighthouse, a classic example of a U.S. Lighthouse Service light station. (Offered in cooperation with the Minnesota Historical Society. Course participants receive an *individual* free pass to Split Rock Lighthouse valid during regular hours, 9 a.m.-5 through October 15. Limited to 60)

Spec Term, ★Sec 50, Th, 6:30-8:30, June 19, 26 (2 meetings), Minnesota History Center, 3M Auditorium, 345 W Kellogg Blvd, StP. *No late fee through June 12.*

(Lee Radzak has worked for the Minnesota Historical Society for 20 years, 7 as an archaeologist and the past 14 as historic site manager at Split Rock Lighthouse)

CSch 0333 PERSONALITY: DOES IT DEFINE WHO WE ARE? No credit, \$99 plus \$6 special fee. Total \$105 (age 62, \$89.10 plus \$6 special fee. Total \$95.10).

What does personality really mean? How is charisma different from personality? Can a person's personality be measured? Is it possible for personalities to change over time? Discuss these and other questions as you learn how psychologists and sociologists define personality. Begin with an overview of the history and development of the personality psychology field, reviewing the classic and contemporary work of major personality theorists from Freud and Jung to Erikson and Perry. Explore the role of various commercial and academic psychological tests designed to assess various elements of personality and learn more about yourself and others in the process. (Limited to 25)

Spec Term, ★Sec 50, W, 6:30-8:30, June 18-July 23 (6 meetings), FordH 115. *No late fee through June 11.*

(William E. Deuser completed a doctorate in social psychology at the University of Missouri, Columbia, and is a Senior Research Analyst at the Center for Health Care Evaluation in the Twin Cities. His research interests include examining the effect of hot temperatures on aggression)

CSch 0340 THE POW WOW: CELEBRATION AND SYMBOL. No credit, \$75 (age 62, \$67.50).

The Pow Wow has been described as an important North American Indian ceremony, a time of celebration, dancing, incantation, and friendship. In this class, a Dakota Pow Wow singer and drummer describes the characteristics of traditional and contest Pow Wows. Discuss the symbolism of various songs, dances, dance regalia, and learn to sing one or two songs. Expand your understanding and enjoyment of this ceremony by discovering its history and significance. Then as a class, attend a Twin Cities or Prairie Island Pow Wow on Saturday, July 12 or July 19. **Participants provide own transportation and may choose to carpool.** (Limited to 25)

Spec Term, ★Sec 50, T, 6:30-8:30, June 17-July 1 (3 meetings plus field trip), BuH 125. *No late fee through June 10.*

(David Larsen, B.A. in sociology from Southwest State University, is a member of the Lower Sioux Reservation. He has served as Tribal Council member and Tribal Historian. An active Pow Wow performer in both traditional and contest Pow Wows, Larson is also involved in several American Indian organizations and is a member of the Minnesota State Historical Society's American Indian Advisory Council)

CSch 0342 FOLKLORE AND THE SUPERNATURAL. No credit, \$96 (age 62, \$86.40).

Do stories of unusual or out-of-ordinary experiences fascinate you or make you skeptical? Using psychological, folkloric, anthropological, and parapsychological perspectives, explore firsthand accounts, traditional stories, art, and songs describing paranormal experiences. Readings and lectures offer narratives from various cultures around the world, including Japan, Malaysia, Nigeria, Newfoundland, and the United States. Find out how tales of the supernatural originate, how they differ among cultures, and also how they sometimes offer similar "truths" or themes across cultures. From ancient tales to accounts of UFOs and urban American ghost stories like the "vanishing hitchhiker," discuss the role supernatural accounts play within cultures. (Limited to 25)

Spec Term, ★Sec 50, W, 6:30-8:30, June 18-July 23 (6 meetings), BioSci 12, StP Campus. *No late fee through June 11.*

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(Peter Harle has a B.A. in religious studies from Macalester, and a masters degree from the Folklore Institute of Indiana University. He is currently a doctoral candidate in folklore there and his dissertation research focuses on the material culture of Tibetan immigrants in the Twin Cities)

CSch 0344 ANCIENT EGYPT: GLORY OF THE PHARAOHS. No credit, \$75 (age 62 and JCC-StP members, \$67.50).

Examine the rediscovery of ancient Egypt during the 19th century and trace the footsteps of explorers such as Belzoni, Champollion, and Flinders-Petrie as they cracked the code of the Pharaohs. Then step back in time to discover Egypt's glory as revealed in the Old Kingdom and the dynasties of the pyramid builders. Next, view Egypt as the world power of its time through discussion of the lives of pharaohs such as Seti, Thutmose, Ramses, and the boy-king Tutankhamun. Finally, relive the age of Ptolemy and Cleopatra as Egypt makes an attempt to revive past glory and power by incorporating the influence of Greece into her religion, politics, and economy. (Offered in cooperation with the Jewish Community Center of Greater St. Paul. Limited to 25)

Spec Term, ★Sec 50, MW, 6:30-8:30, June 23-July 2 (4 meetings), Jewish Community Center of Greater St. Paul, 1375 St. Paul Ave. *No late fee through June 16.*

(Steven Derfler, Ph.D., is area executive director of the American Jewish Committee and an adjunct associate professor of the University of Wisconsin, River Falls. He co-directs archaeological expeditions to Israel and has been actively involved in educating people about the ancient and modern Middle East)

CSch 0365 TAKING TIME. No credit, \$63 (age 62, \$56.70).

"Got a minute?" Our conceptions about time are as varied as our individual experiences and cultural assumptions. Each of us has developed a personal metaphor for time based on several factors—birthplace, culture, religion, family, learning style, personality—and the Time in which we live. Take time away from the whirl of daily life to learn more about effects of twentieth-century technological advances on American perceptions of time, and compare our thinking with that of other cultures. Use your enhanced understanding to help free yourself from a perception of time as something constantly fleeting. (Limited to 20)

Spec Term, ★Sec 50, T, 6:30-8:30, June 17-July 1 (3 meetings), BlegH 140. *No late fee through June 10.*

(Jean Cameron is acting academic dean at the College of St. Catherine. She completed degrees from the University of Minnesota in religious studies and American studies. The author of *Anne Hutchinson, Guilty or Not?*, she is working on a book, *Time, Like an Ever-Rolling Stream, a history of metaphors for time in America*)

Writing and Literature

CSch 0400 CREATIVE WRITING: DEVELOPING YOUR CRAFT THROUGH EXERCISES. No credit, \$125 (age 62, \$112.50).

Are you beginning to write and are now seeking ways to strengthen your skills? Whatever genre you finally select—from fiction to creative nonfiction or memoir—improve your writing expertise through in-class assignments. Use imaginative exercises to generate new ideas and first drafts. Then use technique exercises to address aspects of the craft—how to begin, when to end, and how to uncover the real narrative from a first draft. (Limited to 20)

Spec Term, ★Sec 50, T, 6:30-8:30, July 8-Aug. 19 (7 meetings), Hillcrest Recreation Center, Village View Room, 1978 Ford Pkwy, StP. *No late fee through July 1.*

(Melanie Richards earned an M.F.A. from Goddard College. Her award-winning poetry and prose have been published in *Yankee*, *Harvard Review*, *Shenandoah*, *26 Minnesota Writers*, and other publications)

CSch 0401 CREATIVE WRITING WORKSHOP. No credit, \$125 (age 62, \$112.50).

Recommended for those who have taken a creative writing craft course such as CSch 0400, or who have been writing for a while on their own and feel it's time to join a group. In a workshop environment, learn how others shape works-in-progress, and benefit from group discussion of at least two short pieces of your own writing. Receive comments and suggestions from an experienced instructor and supportive peers. All genres are welcome. Be prepared to write and review others' writing. Students are responsible for photocopying their own writing for sharing in class. (Limited to 16)

Spec Term, ★Sec 50, Th, 6:30-8:30, July 10-Aug. 21 (7 meetings), BioSci 12. *No late fee through July 3.*

(See *Melanie Richards biography* in CSch 0400)

Noncredit Courses

CSch 0405 WRITING WITH SENSE(S). No credit, \$105 (age 62, \$94.50).

The best books, music, and art often leave us speechless. For the moment, we are transported beyond the world of intellect into the realm of the senses. As developing writers, how can we evoke a similar "hush" in our readers? Come play with a variety of visual, aural, tactile and movement exercises to find ways to access and express your observations with greater precision and skill. Examine each of the five senses with specific attention to the individual and communal emotions they evoke within us. Consider excerpts from established authors as well as your own writing to see how senses like smell can relate to themes of fear and survival, or hearing can relate to distance and loss, how a simple physical gesture can suggest character needs or motivations. Blend these abstract sensations with other elements of the writer's craft to take your work to a place that is sensory, sensual, sensible. (Limited to 20)

Spec Term, ★Sec 50, W, 1-3, June 25-July 30 (6 meetings), Ronald M. Hubbs Center for Lifelong Learning, Room 161, 1030 University Ave, StP. *No late fee through June 18.*

(Marc Nieson is a graduate of the University of Iowa Writers' Workshop and New York University Film School whose script writing has garnered awards from the Houston International Film Festival and the National Endowment for the Arts. Nieson helped found and co-edits 100 Words, an international literary journal. Most recently, he taught literature at the University of Iowa and conducts workshops, seminars, and creative writing residencies throughout the Midwest)

CSch 0411 LETTER WRITING: ANCIENT ART OR CURRENT COMMUNICATION? No credit, \$82 (age 62, \$73.80).

Is letter writing a long-lost art? Is e-mail the modern missive of this classic communication? In the midst of countless faxes and voice mail messages, the thoughtful intimacy of a letter provides time for reflection, emotional expression, and remembrance of life's painful, humorous, moving, and romantic events. Begin with a brief exploration of epistolary fiction, and then use class exercises to develop the craft of effective letter writing. Learn techniques and skills to compose letters that serve as calls to action, provide exquisite description of that special trip, or become memorable keepsakes of your most profound thoughts and feelings. (Limited to 20)

Spec Term, ★Sec 50, T, 6:30-8:30, June 17-July 8 (4 meetings), Hillcrest Recreation Center, Village View Room, 1978 Ford Pkwy, StP. *No late fee through June 10.*

(Phebe Hanson is a journal writer, poet [Sacred Hearts, Milkweed Editions], and associate professor emerita in the Liberal Arts Division of the Minneapolis College of Art and Design, where she teaches writing and literature courses)

CSch 0413 IMAGINATIVE LANGUAGE: USING GRAMMAR CREATIVELY. No credit, \$103 (age 62, \$92.70).

Every artist works in a medium: sculptors in stone or metal, musicians in sound, writers in language. But language is not mere words haphazardly thrown together any more than music is a jumble of random noises. Just as melody, harmony, and rhythm give form to music, grammar provides system and structure to language. However, sometimes grammatical rules actually work against effective writing, and to make a piece more imaginative or powerful, a writer must deliberately violate rules of good grammar. Creative use of grammar helps organize your words more effectively to provide maximum impact in your writing. Learn how good writers structure their writing and develop skills to strengthen yours, through readings, lecture, discussions, and writing exercises. Course focus is primarily on prose, but some poetry is also considered. (Limited to 20)

Spec Term, ★Sec 50, M, 6:30-8:30, July 7-Aug. 4 (5 meetings), FolH 138. *No late fee through June 30.*

(Michael Kac teaches linguistics and philosophy at the University of Minnesota and has written in a number of genres, from scholarly texts to reviews of rock music. He is working on a novel, aided and abetted by his accomplices in Crime de la Crime, a group of aspiring mystery writers)

CSch 0419 WRITING WILD. No credit, \$90 (age 62, \$81).

Explore the influence of the natural world on writing in works by Annie Dillard, Terry Tempest Williams, Mary Oliver, Opal Whiteley, and others. Discuss how the imagery and observations of these daring women move and inspire you. Using several in-class writing exercises, practice working with natural images, and then getting beyond the tangible to the mystery within. The text for this class is *Sisters of the Earth*, edited by Lorraine Anderson. (Limited to 20)

Spec Term, ★Sec 50, W, 6:30-8:30, June 18-July 16 (5 meetings), Wood Lake Nature Center, auditorium, 735 Lake Shore Drive, Richfield. *No late fee through June 11.*

(Mary Jean Port completed a master's degree in the Nonfiction Writing Program at the University of Iowa. She has taught creative nonfiction writing classes at

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

Concordia College in Moorhead and composition classes at the University of Minnesota, Morris. Her work has appeared in Lake Region Review, Iowa Woman, Minneapolis/St. Paul magazine, and Loonfeather)

CSch 0435 SCREENWRITING—HOLLYWOOD STYLE. No credit, \$210. Includes box lunch and materials.

Believable dialogue, multi-dimensional characters, strong plot progression and movement are the foundation of well-crafted scenes and ultimately, strong scripts. Join respected Hollywood screenwriter Tom Pope in a two-Saturday seminar on screenwriting. Using a variety of film samples, Pope visually analyzes scene structure, demonstrating successful techniques and skills in a variety of movie genres. Later he reviews several movie script excerpts, highlighting methods that work as well as flaws that lead to failed scripts. The second Saturday covers dialogue and character development, and then offers small group work on scene revision and re-crafting. **To request a vegetarian box lunch, please call the Compleat Scholar office (624-8880) at least one week prior to class.** (Limited to 70)

Spec Term, ★Sec 50, Sa, 9 a.m.-5, July 12, 19 (2 meetings), EBCEC 155, StP Campus. *No late fee through July 3.*

(Tom Pope did undergraduate and graduate work in cinema, with a screenwriting emphasis, at the University of Southern California. He has taught screenwriting at several institutions, including Antioch College and the University of Minnesota. His screen credits include Lords of Discipline, F/X, Someone to Watch Over Me, Hammet, Cold Dog Soup, A Great Ride, and The Manitou, among others)

CSch 0465 CHILDREN'S PICTURE BOOKS: A RAINBOW OF CULTURES. No credit, \$40 (age 62 and MMAA members, \$36).

In conjunction with three concurrent exhibitions of children's book authors and illustrators at the Minnesota Museum of American Art, explore the amazing diversity of vision in children's picture books today. Begin with a session taught by the curator of the University of Minnesota's Kerlan Collection and learn what to look for in creative, multicultural children's literature. Spend the second session in the MMAA galleries (Studio H, Landmark Center, 5th at Market, St. Paul), touring and discussing three exhibitions of selected works from authors and illustrators of African-American, Asian-American, Latino, and American Indian descent. The show includes Cheng-Khee-Chee's watercolors used in the book *Old Turtle*, and Amy

Cordova's illustrations in the book *Abuelita's World*. (Offered in cooperation with the Minnesota Museum of American Art. Limited to 20)

Spec Term, ★Sec 50, Th, 6:30-8:30, July 24, 31 (2 meetings), WaLib 109. *No late fee through July 17.*

(Professor Karen Nelson Hoyle has been the curator of the University's Children's Literature Research Collections, including the Kerlan Collection, for more than 25 years. She has also served as president of the Children's Literature Association and chair of the Caldecott Award Committee, which selects the most distinguished children's picture book published the previous year)

CSch 0477 FROM THE FIRST TO THE SUPREME DETECTIVE: THE WORK OF POE AND DOYLE.

No credit, \$99 (age 62 and WCM members, \$89.10).

Critic Joseph Krutch once said that Edgar Allan Poe "invented the detective story in order not to go mad." In the age of romanticism, Poe, a poet and man of fantastic hallucination, used his boundless imagination to create Dupin, the first detective. Unlike his creator Poe, a man of whimsy and horror, Dupin is more like another even more famous detective, Sherlock Holmes. Both Dupin and Holmes are cool, analytical, infallible thinking machines, somewhat more like Holmes's creator, Doyle, who was a doctor and man of science. Begin with three of Poe's stories, "Murders in the Rue Morgue," "The Mystery of Marie Roget," and "The Purloined Letter," and then study some of Conan Doyle's works to examine the kinship of these two remarkable fictional detectives. (Offered in cooperation with the Woman's Club of Minneapolis. Limited to 24)

Spec Term, ★Sec 50, W, 10 a.m.-12, July 23-Aug. 27 (6 meetings), Woman's Club of Mpls, Memorial Library, 410 Oak Grove. *No late fee through July 16.*

(Johanna Kheim has taught French and humanities at the University of Minnesota. Her doctoral studies at the University were in comparative literature with a focus on the 19th- and 20th-century novel)

Natural and Physical Sciences

CSch 0535 IDENTIFYING AQUATIC PLANTS: GOING BEYOND POND SCUM. No credit, \$96 (age 62, \$86.40).

If you live near a lake, have a lake cabin, or spend time fishing or boating, you may want to go beyond referring to everything green as "seaweed." Discover the many native and non-native plants growing in or along the edges of Minnesota lakes. Learn to identify bulrushes, coontail and duckweed, and to distinguish between harmless northern milfoil and the dreaded Eurasian milfoil. Begin with an introduction to

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

basic plant structures and characteristics, and the use of a dichotomous key for identification. Discuss the role of aquatic plants in local lake ecology and their importance to the wildlife which inhabit lakes and lakeshores. Explore lake productivity and how it affects aquatic plant growth. Includes Saturday morning field trip (**July 12; participants provide own transportation and may choose to carpool**) to collect materials and construct an aquatic plant profile. (Limited to 25)

Spec Term, ★Sec 50, T, 6:15-9, June 24-July 8 (3 meetings plus field trip), BioSci 176, StP Campus. *No late fee through June 17.*

(Robert Bursik has an M.S. in botany from the University of Idaho. His particular expertise is in plant taxonomy and the ecology of wetland and aquatic habitats. He has taught college biology and worked as a research biologist for 10 years, and is currently working on a field guide to wetland and aquatic plants of the Pacific Northwest)

CSch 0540 IN THE BEGINNING: THE HISTORY OF LIFE ON EARTH. No credit, \$82 (age 62, \$73.80). How did life begin? How did simple cells give rise to the tremendous diversity we see on Earth today? What does it mean to be alive? Might life exist on Mars, the moon, or elsewhere in the universe? Begin this study with the creation of the biosphere and the first formation of life on this planet. Learn how modern biologists view life, its origins and its characteristics. Examine how Darwinian evolution has led to a planet teeming with a seemingly endless variety of living organisms. Survey the diversity of living things around us and their interactions. Finally, consider the evidence and possibilities for life on other planets. (Limited to 25)

Spec Term, ★Sec 50, T, 6:30-8:30, June 24-July 22 (5 meetings), BioSci 12, StP Campus. *No late fee through June 17.*

(Eric J. Simon has a Ph.D. in biochemistry and molecular biology from Harvard University. He has taught biology and chemistry at St. John's University, St. Mary's University, Metropolitan State University and Minneapolis Community and Technical College)

CSch 0552 GEOLOGY OF THE TWIN CITIES METROPOLITAN AREA. No credit, \$77 (age 62, \$69.30).

An azure ocean teeming with marine life laps against a tropical white sand beach. A howling wind whips biting snow over a barren, ice-covered landscape. Two starkly contrasting images which are both important parts of our geologic history. Discover how these diverse environments came to create the landscape of the Twin Cities area. Highlighted by a

full-day Saturday field trip (**July 26, participants provide own transportation and may choose to carpool**) of waterfall exploration, fossil hunting, and excursions to other geological points of interest in the metro area. Although complementing CSch 0551, that course is not a prerequisite to this course. (Limited to 25)

Spec Term, ★Sec 50, Th, 6:30-8:30, July 17, 24 (2 meetings plus field trip), Minnesota Geological Survey, 2642 University Ave., StP. *No late fee through July 10.*

(Tony Runkel received his Ph.D. from the University of Texas and is a senior geologist at the Minnesota Geological Survey. He specializes in the paleozoic rocks of southeastern Minnesota)

The Practical Scholar summer course offerings

Academic Skills and Career Development

PSch 0605 DECIDING TO ATTEND GRADUATE SCHOOL. No credit, \$27 (age 62, \$24.30).

The decision to pursue a graduate degree can be difficult and involves assessing the value of a graduate degree to you as well as selecting an appropriate program. Explore the impact of attending graduate school on both your professional and personal life. Clarify your life/career goals, evaluate your options, and develop a plan of action. Includes discussion of factors to consider and questions to ask in researching possible graduate programs. (Limited to 25)

Spec Term, ★Sec 50, Sa, 9 a.m.-12, June 14 (1 meeting), FordH 130. *No late fee through June 6.*

(Lisa Thomas is a career management consultant at Career Dynamics, Inc. She has a doctorate in counseling psychology with an emphasis on career development from Ohio State University, and was previously assistant director of Michigan State University's career development and placement services)

PSch 0606 APPLYING TO AND FINANCING GRADUATE SCHOOL. No credit, \$27 (age 62, \$24.30).

Early planning is essential in applying to and successfully financing your graduate education. Many application deadlines are six months or more before the term begins. The first part of this session examines how the graduate school admission process works, when to apply, and how to put together an effective application. In the second half find out what types of aid and financial support are available

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

including loans, grants, scholarships, fellowships, and assistantships. Includes time for questions. (Limited to 35)

Spec Term, ★Sec 1, M, 6-9, June 30 (1 meeting), FordH 115. *No late fee through June 23.*

(Dennis Clayton, Ph.D., is director of the Office of Equal Opportunity in Graduate Studies at the University of Minnesota. Larry Bloom is a financial aid counselor at the University)

FREE MATH SKILLS TEST HELPS YOU CHOOSE THE RIGHT COURSE

Wondering if you need more math review (perhaps PSch 0609 Reviewing Math for the GRE or GMAT or an earlier entry course) before taking PSch 0610 Preparing for the GRE, or PSch 0611 Preparing for the GMAT? To make your decision easier, a short self-scored test is available at no cost. Guidelines included with the test help you decide which class you are ready for based on your score. To have the test mailed to you, call 624-8880.

PSch 0609 REVIEWING MATH FOR THE GRE OR GMAT. No credit, \$135 plus \$15 special fee. Total \$150 (age 62, \$121.50 plus \$15 special fee. Total \$136.50.) Includes study materials.

Preparation for the mathematics portions of the Graduate Record Examination (GRE) and the Graduate Management Admission Test (GMAT). Intended for people who need to brush up on their basic math skills and who would like some guidance and practice in solving the fundamental problems encountered on the GRE and GMAT. Topics include material from arithmetic, algebra, geometry, and problem solving (see also PSch 0610, 0611, 0652). Last class includes an assessment followed by a discussion. Materials distributed at first class. (See **math skills note page 77**. Limited to 30)

Spec Term, ★Sec 50, M, 6-8:30, July 28-Aug. 25 (5 meetings), FordH 175. *No late fee through July 21.*

(Pat Kinney is a teaching specialist in mathematics in General College)

PSch 0610 PREPARING FOR THE GRE. No credit, \$275 plus \$40 special fee. Total \$315 (age 62, \$247.50 plus \$40 special fee. Total \$287.50). Includes study materials.

Become familiar with the various types of verbal, quantitative, and analytical questions presented on the Graduate Record Examination (GRE) General Test. The first class session includes a proctored diagnostic exam beginning promptly at 5:30 p.m., and distribution of materials especially prepared for this course as well as the practice book *GRE: Practicing to Take the General Test*. Instruction

begins at second session. Learn test-taking strategies and work with test-simulation exercises on reading comprehension, antonyms, analogies, sentence correction, problem solving, quantitative comparison, graphs, and analytical/logical reasoning. Includes advanced math strategies. Along with standard course materials—Cambridge workbook and practice tests—students receive a practice disk that simulates computer adaptive question types allowing first-hand experience with computerized question format. Students needing basic math review (arithmetic, algebra, geometry, and story problems) should register for PSch 0609. (See **math skills note, page 77**. Limited to 40)

Spec Term, ★Sec 50, Th, 5:30-9:30, July 17-Aug. 21 (6 meetings), WullH 140. *No late fee through July 10.*

(Instructor for the verbal section to be assigned. Tom Lamb, instructor for the math section, has an M.B.A. from the Carlson School of Management and has previously taught math courses in the General College at the University)

PSch 0611 PREPARING FOR THE GMAT. No credit, \$275 plus \$40 special fee. Total \$315 (age 62, \$247.50 plus \$40 special fee. Total \$287.50). Includes study materials.

Learn test-taking strategies for dealing with the verbal, quantitative, and analytical sections of the new Graduate Management Admissions Test (GMAT). The first class session includes a proctored diagnostic exam beginning promptly at 5:30 p.m., and distribution of materials especially prepared for this course as well as the practice book *The Official Guide for GMAT Review*. Instruction begins at second session. Discuss proven methods for dealing with each of the question types and work with test-simulation exercises in critical reasoning, problem solving, data sufficiency, sentence correction, essays, and reading comprehension. Along with standard course materials—Cambridge workbook and practice tests—students receive a practice disk that simulates computer adaptive question types allowing first-hand experience with computerized question format. (See **math skills note, page 77**. Limited to 40)

Spec Term, ★Sec 50, Th, 5:30-9:30, Aug. 21-Sept. 25 (6 meetings), FordH 130. *No late fee through Aug. 14.*

(Instructor for the verbal section to be assigned. Tom Lamb, instructor for the math section, has an M.B.A. from the Carlson School of Management and has previously taught math courses in the General College at the University)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

Noncredit Courses

PSch 0613 PREPARING FOR THE LSAT. No credit, \$235 plus \$40 special fee. Total \$275 (age 62, \$211.50 plus \$40 special fee. Total \$251.50). Includes study materials.

Learn test-taking strategies and practice working with the various types of questions presented on the Law School Admissions Test (LSAT). The first class session includes a proctored diagnostic exam beginning promptly at 5:30 p.m., and distribution of materials especially prepared for this course including *The Official LSAT PrepTest VII* and *The Official LSAT PrepTest XII*. Instruction begins at second session. Review logical and verbal reasoning, sharpen reading comprehension, practice solving analytical reasoning problems, brush up on parts of speech, word usage, and proper sentence structure, and learn a system to generate ideas for and complete the required 30-minute essay. After being introduced to proven methods for dealing with each of the question types, work with test-simulation exercises. (Limited to 40)

Spec Term, ★Sec 50, T, 5:30-9:30, Aug. 19-Sept. 16 (5 meetings), FordH 130. *No late fee through Aug. 12. (Instructor, to be assigned)*

PSch 0620 GRAMMAR REFRESHER. No credit, \$88 (age 62, \$79.20).

Has it been a while since you studied subjects, verbs, and all those other forgotten terms? Do you labor over sentences and agonize over paragraphs? This workshop is designed for people who had a strong background in grammar (however many years ago), but who would now like to review basic skills. It is intended for those considering returning to the classroom, those already in school and having problems with writing, and those who would like a refresher for work-related or personal correspondence. It may also be useful for those preparing for standardized tests that include a section on sentence completion. Topics include grammar, punctuation, sentence structure, and common problem areas. Format includes lecture, exercises, student participation, and weekly homework assignments. (Limited to 20)

Spec Term, ★Sec 50, Th, 6:15-8:15, June 19-July 17 (5 meetings), BuH 123. *No late fee through June 12.*

(Jan DeNoble has taught classes and seminars for the University of Minnesota, government agencies, and private industry)

PSch 0621 WORD SMART. No credit, \$70 (age 62, \$63).

Do you find yourself using the same words over and over again? Do you avoid using certain words because you aren't sure of their precise meaning or

correct pronunciation? Does your vocabulary simply need a good tune-up? Whether in school, at work, or in personal speaking or writing, the words we use—and how we use them—speak volumes about us. Build your word power. Study word roots and their derivatives, and the definition, pronunciation, and usage of words. Use word games to increase your vocabulary. Appropriate for anyone who wants to enhance speaking and writing skills, or plans to take undergraduate or graduate admissions exams or other tests requiring vocabulary skills. (Limited to 25)

Spec Term, ★Sec 50, T, 6:30-8:30, June 24-July 15 (4 meetings), BioSci 70, StP Campus. *No late fee through June 17.*

(See Jan DeNoble's biography in PSch 0620)

PSch 0652 ELEMENTARY ALGEBRA. No credit, \$180 (age 62, \$162).

For people who have a working knowledge of arithmetic but have had no algebra (or have forgotten the algebra they knew years ago). Focus on algebra as a logical language that can be used to describe real-world situations and help solve problems. Practice algebra skills to understand how and why mathematical procedures are used. Content is equivalent to a first course in algebra, and includes signed numbers, exponents, expressions, equations, inequalities, factoring, polynomials, rational expressions, and x-y graphs. Lots of time is spent on word problems. Preparation for Intermediate Algebra, GC 0625. (Limited to 25)

Spec Term, ★Sec 1, M, 6-8, June 16-Aug. 18 (10 meetings), APH 103. *No late fee through June 9.*

(Douglas Robertson is a professor in the General College at the University of Minnesota. He has received the Morse-Alumni Award for Outstanding Contributions to Undergraduate Education as well as the University College Distinguished Teaching Award. His research interests are in developmental mathematics education)

PSch 0665 CAREER PLANNING: STRATEGIES FOR RENEWAL AND CHANGE. No credit, \$130 plus \$30 special fee. Total \$160 (age 62, \$117 plus \$30 special fee. Total \$147).

Take the first step toward assessing your job, your goals, and yourself in relation to your career. Consider values, job satisfaction, job stress, and person-environment fit as key elements of the decision to stay where you are or to make a change. Explore educational training opportunities by learning ways to identify career alternatives. An opportunity to take the Strong Interest Inventory and the Myers-Briggs Type Indicator, two vocational assessment inventories. (Limited to 25)

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Spec Term, ★Sec 50, T, 6:15-8:15, June 17-July 22 (6 meetings), NCCCE 229. *No late fee through June 10.* (Christina Huck, Ph.D. and licensed psychologist, is a program director at St. Mary's University. She has extensive experience teaching career planning classes and job search workshops for university students and working adults)

Public Relations, Communication, and Language

PSch 0703 CREATING A WEB HOME PAGE. No credit, \$75 plus \$20 special fee. Total \$95 (age 62, \$67.50 plus \$20 special fee. Total \$87.50).

In a Power Mac lab, learn basic HTML (Hyper Text Markup Language) to create your own World Wide Web home page. Using the Web's hypermedia (text, sounds, graphics) system, find out how to incorporate photographs and movies into your home page. Because the Web offers access to information and resources from around the world, this class also presents additional tools for surfing the Internet. You must have a working knowledge of Macintosh computers, word-processing software, and the Internet. Beginning-level workshop designed for those wanting to learn the basics for building a web page. You will be able to view your finished product in Netscape 2.0, but it is your responsibility to transfer HTML file to a World Wide Web server. Suggested text: *HTML for the World Wide Web* by Elizabeth Castro. (Limited to 18)

Spec Term, ★Sec 50, M, 6:30-8:30, June 23-July 7 (3 meetings), McNH 305, StP Campus. *No late fee through June 16.*

(Janet Collrin Cameron has been employed as a microcomputer/multimedia consultant at St. Olaf College for the last six years. She teaches several courses including *Computer Application to Design Problems I and II* at the University of Minnesota, and is currently completing doctoral work on the integration of computers into design curriculum)

PSch 0723 DISCOVER THE INTERNET. No credit, \$100 plus \$45 special fee. Total \$145 (age 62, \$90 plus \$45 special fee. Total \$135).

What is the Internet and how can it help me? Find answers to your questions about the information superhighway through this hands-on course. Begin with an introduction to the structure of the Internet and the tools for using it such as Gopher and Netscape. Learn how modems function and how to log into computer systems, transfer files, and use e-mail. Find out how to use Gopher resources to locate people and research information, and discuss

free software and Internet service providers. Participants should be familiar with personal computers. The lab will use Microsoft Windows, but the concepts also apply to Macintosh. (Limited to 18)

Spec Term, ★Sec 50, T, 6:15-8:45, June 17-July 1 (3 meetings), EBCEC, Computer Lab, StP Campus. *No late fee through June 10.*

(Erick L. Wright is a systems analyst for Paranet/US West Communications and a consultant to the University of Minnesota. His primary area of expertise is UNIX-based Internet services)

PSch 0726 CGI PROGRAMMING FOR THE WEB. No credit, \$150 (age 62, \$135).

Now that you have learned the power of the World Wide Web, take advantage of the power of CGI programs. Learn how to create entire Web-based applications with HTML and Perl. Techniques demonstrated include e-mail interfaces, flat file database creation, searching, and CGI-based features for use in Web pages. Also explore server-side includes and some Shell and Java script. Techniques discussed are UNIX-based. Lecture class with demonstrations; programming environment not provided. Course assumes participants have some prior programming experience. (Limited to 18)

Spec Term, ★Sec 50, T, 6:15-8:45, July 22-Aug. 5 (3 meetings), EBCEC, Computer Lab, StP Campus. *No late fee through July 15.*

(See Erick L. Wright's biography in PSch 0723)

Financial, Consumer, and Health Issues

PSch 0922 PURCHASING A HOME COMPUTER. No credit, \$26 (age 62, \$23.40).

The personal computer is a powerful tool, but it is also a complex item to buy. Learn about different computer functions and capabilities, and the components included in basic and more comprehensive packages. Discuss operating systems, memory types and sizes, options such as FAX/modems and CD-ROM drives, how to think about upgrades, and considerations for selecting a vendor. If you understand the basics, you can make an informed purchase. Discussion includes both Macintoshes and IBM PC/compatibles. (Limited to 25)

Spec Term, ★Sec 50, T, 6-9, Aug. 5 (1 meeting), AmundH 210. *No late fee through July 29.*

(André Thomas is a microcomputer consultant with Distributed Computing Services at the University of Minnesota, where he also teaches classes using both Macintosh and Intel-based computers)

Noncredit Courses

PSch 0940 BODY WORK: PRACTICAL ANATOMY AND MOVEMENT. No credit, \$75 (age 62, \$67.50).

Remember when your own movement felt as effortless and natural as a child's? For many, that freedom has been blocked by stress, chronic discomfort, or lack of energy. Learn more about your body structure and regain patterns of healthier movement through creative exercises, discussions, and guided explorations of body-therapy techniques. Examine ways to change stressful movement habits, increase relaxation and physical well-being, and experience ease of motion. Suitable for all ages and abilities; participants should wear comfortable clothing. (Limited to 20)

Spec Term, ★Sec 50, M, 6:30-8, June 16-July 14 (5 meetings), Lutheran Church of the Good Shepherd, 4801 France Ave S, Edina (park in and enter from south lot). *No late fee through June 9.*

(Barbara Nordstrom-Loeb is a dance/movement therapist and body therapist, as well as an instructor in the dance department at the University of Minnesota. She has trained in a variety of movement techniques and therapies and has performed, choreographed, and taught movers of all abilities and ages. Nordstrom-Loeb was also an artist-in-residence at St. Olaf College for three years)

Home, Garden, and Landscape

PSch 0954 RESIDENTIAL INTERIORS: INTRODUCTION TO BASIC DESIGN PRINCIPLES. No credit, \$51 (age 62, \$45.90).

Furnishing or remodeling a home can quickly absorb time and money. Learn about basic elements and principles of design to make informed choices about home furnishings, remodeling plans, and new home plans. Experiment with color theory and other design elements through class exercises and sample design problems, and develop a sense of quality and compatibility of materials. Examine design concepts such as formality vs. informality and traditional vs. contemporary, and learn how and when to select a design professional as you increase your knowledge about the interior design process. (Limited to 25)

Spec Term, ★Sec 50, M, 10 a.m.-12, June 16-30 (3 meetings), Lutheran Church of the Good Shepherd, 4801 France Ave S, Edina (park in and enter from south lot). *No late fee through June 9.*

(Kristen Mengelkoch, co-owner of Pisa Design, a full-service residential design firm, has a B.S. in Interior Design from the University of Minnesota. She is experienced in all facets of interior design including the custom design and selection of architectural details, lighting, furnishings, art, and accessories)

PSch 0961 CONTAINER GARDENING FOR EVERYONE. No credit, \$26 (age 62 and Arboretum members, \$23.40).

Gardening in containers is not only ideal for the apartment dweller, but also for people who would like to add some colorful accents to their flower beds or bring in a spot of color in the landscape. Learn the what, how, why, and where of growing plants in containers. (Offered in cooperation with the Minnesota Landscape Arboretum. Admission fee to Arboretum waived with course registration receipt. Limited to 25)

Spec Term, ★Sec 50, Sa, 9:30 a.m.-12:30, June 14 (1 meeting), Minnesota Landscape Arboretum, Snyder Bldg, Classroom 2, 3675 Arboretum Drive, Chanhassen. *No late fee through June 6.*

(Shirley Mah Kooyman, a botanist, is the adult education coordinator at the Minnesota Landscape Arboretum and a Hennepin County Master Gardener)

PSch 0962 BULBS FOR SPRING AND SUMMER COLOR IN THE GARDEN. No credit, \$35 (age 62 and Arboretum members, \$31.50).

Discover the beauty of gardening with bulbs in Minnesota. Add interest, color, form, and texture to your garden by learning about both common and unusual bulbs and bulblike perennials. Find out how to grow them, where to buy them, and what to do with them when the gardening season is over. Includes classroom lectures as well as visits to various Arboretum gardens to see the plants. (Offered in cooperation with the Minnesota Landscape Arboretum. Admission fee to Arboretum waived with course registration receipt. Limited to 25)

Spec Term, ★Sec 50, Th, 6:30-8:30, July 31, and Sa, 10 a.m.-12, Aug. 2 (2 meetings), Minnesota Landscape Arboretum, Snyder Bldg, Classroom 2, 3675 Arboretum Drive, Chanhassen. *No late fee through July 24.*

(Shirley Mah Kooyman, a botanist, is the adult education coordinator at the Minnesota Landscape Arboretum and a Hennepin County Master Gardener)

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PSch 0980 ACROSS THE SEASONS: DESIGNING GARDENS FOR YEAR-ROUND BEAUTY.

No credit, \$66 (age 62 and WCM members, \$59.40). "As in all matters relating to design in gardening, the good placing of plants in detail is a matter of knowledge of an artistic character," wrote Gertrude Jekyll in *Color Schemes for Flower Gardens* (1936). For those who want to design their gardens to give beauty throughout the year. Learn how to incorporate design fundamentals with perennials, annuals, small trees, and shrubs. Review the history of gardens as well as current trends in creating the "new American garden." Learn to orchestrate seasonal interest, create effective winter landscapes, and acquire ideas on the uses of garden structures and materials (such as paths, benches, gates, and walls). For novice and experienced gardeners. (Offered in cooperation with the Woman's Club of Minneapolis. Limited to 24) Spec Term, ★Sec 50, Th, 9:30 a.m.-12, June 12-26 (3 meetings), Woman's Club of Mpls, Library, 410 Oak Grove. *No late fee through June 5.*

(Carter Lee Clapsadle received his horticulture/plant biology degree from the University of Minnesota and is the landscape horticulturist for the College of St. Catherine. He is also a partner in the Clapsadle-Baugnet Design Studio, a graphics and garden design firm)

PSch 0984 LANDSCAPE DESIGN: LEARNING BY SEEING.

No credit, \$70 (age 62, \$63). Plants, soil, and structures unite to form the spaces we call yards and gardens. But by their very nature, living plants and three-dimensional space are difficult to capture in slides and lecture. Begin this course with a classroom discussion of design theory. Then explore the art of landscape architecture through three site visits spread over several weeks to include seasonal change. **Participants provide own transportation and may choose to carpool.** Each residence visited highlights a distinct aspect of design. See the creation of outdoor rooms through the use of gardens, walls, hedges, and fences. Learn to combine the functional and the aesthetic in a small backyard in which driveways become patios, and garage walls a backdrop to the garden. Finally, explore the elements needed to implement alternative landscapes using native plants. (Limited to 20)

Spec Term, ★Sec 50, T, 6:15-8:15, June 24, July 1, 15, 29 (4 meetings), McNH 198, StP Campus. *No late fee through June 17.*

(Frank Fitzgerald is finishing his master's degree in landscape architecture at the University of Minnesota. As a landscape designer, he is especially interested in creating modern landscapes)

PSch 0991 FLORAL DESIGN: ARRANGING GARDENFLOWERS.

No credit, \$74 plus \$10 course fee. Total \$84 (age 62, \$66.60 plus \$10 course fee. Total \$76.60). Celebrate the beauty of summer flowers. Learn how to effectively arrange cut flowers in a pleasing manner, discussing basic principles and elements of design that create traditional and contemporary styles. These principles apply to flowers that bloom any time of year and to flowers purchased from a florist. **For second and third sessions, participants must bring their own materials from a garden or farmer's market.** (Limited to 20)

Spec Term, ★Sec 50, M, 6-9, July 14-28 (3 meetings), AlderH 423, StP Campus. *No late fee through July 7.*

(Neil O. Anderson is a lecturer and post-doctoral research associate in the Department of Horticultural Science at the University of Minnesota. He has extensive training in floral design and serves as a consultant to the floral design industry)

PSch 0996 HERBS FOR THE GARDEN AND KITCHEN.

No credit, \$38 (age 62 and Arboretum members, \$34.20). Learn how easy it is to grow herbs for use in the kitchen and as ornamentals in the flower garden. Discover which herbs do well with minimal effort. First session covers how to grow the herbs, when to grow, what to grow, how to propagate, and when and how to harvest herbs for use in cooking. Second session is a cooking demonstration using herbs for flavor and healthy cooking. There will be food tasting for everyone. (Offered in cooperation with the Minnesota Landscape Arboretum. Admission fee to Arboretum waived with course registration receipt. Limited to 25)

Spec Term, ★Sec 50, Th, 6:30-8:30, July 24, and Sa, 10 a.m.-12, July 26 (2 meetings), Minnesota Landscape Arboretum, Snyder Bldg, Classroom 2, 3675 Arboretum Drive, Chanhassen. *No late fee through July 17.*

(Shirley Mah Kooyman, a botanist, is the adult education coordinator at the Minnesota Landscape Arboretum and a Hennepin County Master Gardener)

Compleat Scholar Weekends

Spend uninterrupted time reading a book, discussing a challenging idea, or studying with an expert. Compleat Scholar Weekends (CSW) combine the pleasures of learning with a weekend away from it all. Each weekend is led by a University of Minnesota faculty member or community expert, is limited in size to allow for small group conversations, and is held at a comfortable retreat center or lodge with recreational facilities to enjoy during your free time.

Registration Information

Registrations are accepted on a first-come, first-served basis. For the summer weekend, registration begins May 1 and ends June 30. Register in person or by mail in 206 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455; or call (612) 624-8880 for more information.

Registration deadlines are 31 to 61 days in advance of the weekend due to site policies. CSW cancellation policies for specific weekends will be mailed upon registration or are available by request at (612) 624-8880.

Registrations may be charged to Visa, Discover, or MasterCard.

Summer 1997 Weekend

CSW 0701 ANATOMY OF A TROUT STREAM.
July 19-20, 1997.

In the midst of Minnesota's finest trout fishing waters, put on your hip boots, start wading and turning over rocks, and join aquatic entomologist Dean Hansen in exploring the basics of a trout stream ecosystem. Learn about water currents and temperature cycles, stream plants, and the myriad varieties of insects and crustaceans. Explore mayfly hatches, invertebrate drift, feeding strategies, and energy flows. Passive learners beware—you'll get your hands wet as you are introduced to clinging

mayfly nymphs or try simple underwater photomacrography. Don't worry about learning Latin names or memorizing minutia—look instead at the big picture of what makes a stream tick. This weekend experience occurs at the Forest Resource Center near Lanesboro, a 2.5 hour drive from the Twin Cities. Nestled into the limestone bluffs and hardwood forests of Southeastern Minnesota, the site is close to the Root River and several trout streams, including one that is only a ten-minute walk from the center. Weekend includes free time for fly angling and a Saturday evening trout dinner. Pre-trip lecture is Thursday, July 10, 6:30-8:30 p.m. in Nolte Center Library. The weekend begins on Saturday at 10 a.m. and concludes Sunday at 4 p.m. (Limited to 18)

Deadline for registration is June 30.

Spec Term. ★Sec 50, no credit, \$225 fee includes one night lodging (double occupancy), three meals plus box lunch, and a pre-trip lecture.

(Dean C. Hansen earned a Ph.D. in entomology at the University of Minnesota. An avid trout angler, Hansen has extensive teaching experience, including aquatic entomology classes for trout fishermen)

Weekends scheduled for 1997-98

Spend uninterrupted time reading a book, discussing a challenging idea, or studying with an expert. Compleat Scholar Weekends (CSW) combine the pleasures of learning with a weekend away from it all. Each weekend is led by a University of Minnesota faculty member or community expert, is limited in size to allow for small group conversations, and is held at a comfortable retreat center or lodge with recreational facilities to enjoy during your free time.

Registration Information

Registrations are accepted on a first-come, first-served basis. Registration begins in August and ends with the deadline listed in each description. Register in person or by mail in 206 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455; or call (612) 624-8880 for more information.

Registration deadlines are 31 to 61 days in advance of the weekend due to site policies. CSW cancellation policies for

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specific weekends will be mailed upon registration or are available by request at (612) 624-8880.

Registrations may be charged to Visa, Discover, or MasterCard.

CSW 0700 SPRING WILDFLOWER WEEKEND. May 15-17, 1998.

Spend a weekend searching for spring wildflowers in the hardwood forests and crystal clear lake areas of northwestern Minnesota. Floral dissection and use of a wildflower guidebook will be the most formal portion of the weekend. Rain or shine, explore the area of Detroit Lakes, including Maplewood State Park, looking for harbingers of spring such as anemones and trillium. Stay at Maplelag, a unique, rustic resort on Little Sugar Bush Lake. The weekend begins at 7 p.m. Friday and concludes at 3 p.m. Sunday. There is a pre-trip lecture on Wednesday, May 6, at 6:30 p.m. in Nolte Center. (Limited to 18)

Deadline for registration is Apr. 3, 1998.

Spring Spec Term, ★Sec 1, no credit, \$315 fee includes two nights lodging (double occupancy), several meals, and a pre-trip lecture.

(Group leader is Roberta Sladky, former director of the University of Minnesota College of Biological Sciences greenhouse and currently the manager of Como Park Conservatory in St. Paul. She is a wildflower enthusiast and an experienced group leader)

CSW 0702 WILDFLOWERS OF THE NORTH SHORE. June 12-14, 1998.

Enjoy the wildflowers of the boreal forest along Minnesota's North Shore. Look for twin flower, lady's slipper, bunchberry, and the many members of the blueberry family along woodland trails of Judge C. R. Magney State Park and the coastal rocks of Lake Superior. Accommodations are at the picturesque Naniboujou Lodge on the shore of Lake Superior north of Grand Marais. The weekend begins Friday evening and concludes at noon on Sunday. There is a pre-trip lecture on Wednesday, May 27, at 6:30 p.m. in Nolte Center. (Limited to 20)

Deadline for registration is May 4, 1998.

Spring Spec Term, ★Sec 1, no credit, \$300 fee includes two nights lodging (double occupancy), four meals, and a pre-trip lecture.

(Group leader is Roberta Sladky, former director of the University of Minnesota College of Biological Sciences greenhouse and currently the manager of Como Park Conservatory in St. Paul. She is a wildflower enthusiast and an experienced group leader)

CSW 0703 WINTER WILDLIFE. Feb. 13-15, 1998.

During this extended weekend, enjoy the northern beauty of Itasca State Park by studying adaptations of plants and animals to the Minnesota winter climate. Strap on the snowshoes for two half-day nature hikes to look for examples of wildlife activity and to discuss their strategies for survival. Use the afternoons for personal interests such as cross-country skiing or to carry out optional mini-experiments suggested by the instructor. The weekend begins Friday evening and concludes at noon on Sunday. The pre-trip meeting (Wednesday, Jan. 21, 6:30 p.m., St. Paul Student Center 202) includes an introductory lecture and time to plan transportation, food, and lodging arrangements at the Lake Itasca Forestry and Biological Station. Before heading to Itasca, get acquainted with winter wildlife during a half-day field trip to Cedar Creek Natural History Area (Saturday, January 31; participants provide own transportation and may choose to carpool). (Limited to 17)

Deadline for registration is Jan. 16, 1998.

Winter Spec Term, ★Sec 1, no credit, \$200 fee includes two nights lodging (double occupancy), a pre-trip lecture, and the half-day field trip.

(Jake Miller has a Ph.D. from the Department of Ecology, Evolution, and Behavior at the University of Minnesota. He is a field biologist with an extensive teaching background and research experience focusing on bird behavior)

CSW 0704 PHOTOGRAPHING THE SEASONS ON THE NORTH SHORE: FALL. Oct. 3-5, 1997.

Fall forests on the North Shore are bursting with changing leaf colors as well as mushrooms, lichens, ferns, and some late-blooming wildflowers. Explore the autumnal beauty, learn nature photography techniques, and take some time to relax in this unique workshop. Designed for both the beginning and intermediate photographer, this intensive seminar will cover scenic, nature, and landscape photography. Understand how to see photographs that you may have passed by, and how to improve what you thought you captured on film. Learn about film types, filtration, exposure, depth of field, and lighting outdoors. At a follow-up session on Wednesday, Oct. 15, review and present the weekend's work. Students must bring a 35mm camera with manual controls (or manual override capabilities) for the focus, shutter speed, and aperture. Bring cameras and camera manuals to a pre-trip meeting on Tuesday, Sept. 23. The pre- and post-trip sessions are held in Nolte Center Library at 6:30 p.m. The weekend begins on Friday at 2 p.m.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.

Noncredit Courses

at Cascade Lodge near Grand Marais and concludes at noon on Sunday. (Limited to 16)

Deadline for registration is Sept. 12, 1997.

Fall Spec Term, ★Sec 1, no credit, \$340 fee includes two nights lodging (double occupancy), dinner on Friday, three meals on Saturday, breakfast on Sunday, and pre- and post-trip lectures. Students are responsible for additional costs for film and developing. Specific details reviewed by instructor at pre-trip meeting.

(John Gregor is a nature and outdoor photographer. His work has been published in local and national publications and exhibited at the Minneapolis Institute of Art, the Katherine Nash Gallery, the Tweed Museum, and several other galleries. In February 1996 he was the expedition photographer for the Nile River Kayak Expedition in Uganda)

CSW 0801 MID-LIFE CAREER ASSESSMENT: MAKING DECISIONS ABOUT YOUR LIFE. Feb. 20-22, 1998.

Are you at that stage of life when you would like to explore new options? Are you thinking about changing career paths? This weekend seminar is designed to help you re-evaluate your adult interests, values, and personal characteristics, and then apply this information to increase job satisfaction. Using a standardized assessment approach to help heighten self-knowledge and to develop an accurate picture of your work self, complete the new Campbell

Interest and Skills Survey, the Myers-Briggs Type Indicator, and other assessment tools. Interpret these inventories and apply this "new" knowledge to your career development. Also, use creative, intuitive approaches for further self-discovery and to integrate what you learn. Finally, develop an action plan for the next stage of your life. This weekend will be held at Wilder Forest, a retreat center on 980 acres of forest and lakes in rural Washington County, about an hour's drive from the Twin Cities. Lecture and discussion are interspersed with free time to enjoy the recreational facilities, to read and write, or just to relax in the beautiful woodland setting. The weekend begins Friday evening and concludes Sunday at noon. There is a pre-trip lecture on Wednesday, Feb. 4, at 6:30 p.m. in Nolte Center. (Limited to 16)

Deadline for registration is Dec. 15, 1997.

Winter Spec Term, ★Sec 1, no credit, \$295 fee plus \$55 special fee. Total of \$350 includes two nights lodging (double occupancy), four meals, and a pre-trip lecture.

(Kevin J. Nutter, Ph.D., is the program director of the Career Development Center at the University of Minnesota. Alisa Eland, M.A., provides career counseling and coordinates career services for International Student and Scholar Services at the University)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 11.



RESEARCH EXPLORATIONS

Join a University of Minnesota research team and share in the spirit of discovery. The Research Explorations (REX) program provides the general public with unique experiential learning in diverse fields—the sciences, humanities, education, health sciences, agriculture, and others.

Research projects for 1997 have been scheduled throughout Minnesota and focus on a variety of topical areas, including natural resources, social and health issues, agriculture, wildlife management, history, and business.

REX participants share in the work load of the research team's day. Under the guidance of the project leader and staff, they may be asked to hike, boat, climb, dig, or engage in other physical activities. Volunteers may also assist in data collection, observation, photography, sampling, questionnaires, interviews, and coding.

Volunteers enjoy experiential learning while advancing important research and expanding intellectual horizons.

Application Process

Volunteers apply for a project of choice. Applications are screened, and the project leader has final approval. Many REX projects can accommodate only a limited enrollment. Note that projects may close or cancel without prior notice. **Persons interested in participating in the REX program should call (612) 624-5092 for complete information and an application form.**

Although applications are accepted on a continuous basis, preference is given to those received at least four weeks prior to

the start of desired participation. It is best to apply in late spring or early summer. Applications received after the preferential due date may experience delayed responses. Due dates for summer 1997 are:

Summer Session I: May 19, 1997

Summer Session II: June 23, 1997

10-week Summer Session: May 19, 1997

Qualifications for REX Participation

The most important qualifications required of REX participants are commitment, common sense, and adaptability to different situations and cultures.

Many projects require such general skills as observing, interviewing, and record keeping. Especially for field projects, camping or wilderness experience is also beneficial. Some projects do need more specific skills like training in electronics, computers, or photography.

Special Fee

All REX participants pay a \$180 special fee that is applied to administrative costs; however, costs of field and laboratory expenses, compilation of research finds, and program planning and implementation *may* also be added to the special fee. Projects have different arrangements regarding accommodations, meals, ground transportation, and clothing and equipment needs, so special fee amounts vary.

Because REX participants are contributing money and time to research sponsored by the University of Minnesota, a tax-exempt

organization, a special fee *may* qualify as a tax-deductible contribution. Participants are advised to seek qualified advice.

REX volunteers contribute their share of the cost of participating in the project and are responsible for travel expenses. Special fees do not cover airfare, costs to and from the assembly site, visas, passports, inoculations, medical or other emergencies, or other personal expenses.

Cancellation and Refunds

Payment of the special fee is *nonrefundable* unless the research project is canceled by the REX program or the applicant is not accepted as a project participant.

Orientation

Prior to participation, volunteers receive necessary information regarding project objectives, site conditions, laboratory and field activities and techniques, clothing and equipment needs, and health and entry requirements (for international projects). Direction and learning continue at the research site.

Project Expectations

The project leader is responsible for the involvement of the volunteer in the laboratory/field work of the research project. The project leader and REX staff reserve the right to end participation of any volunteer and require that the person leave the research site if he or she is unwilling to do the work, is unadaptable to the field conditions or to the research team, or does not adhere to University of Minnesota regulations and policies.

In some countries, the research team's presence requires governmental approval. Thus, it is crucial to respect the customs and laws of the host country. Though advance planning is always conducted, some-

times unforeseen situations do arise. Understanding, adaptability, and cooperation are therefore essential for all research participants.

Academic Credit

Academic credit is available for participating in most REX projects. Inquire about earning credit when calling for application materials. Tuition paid for academic credit is **not** deductible as a charitable donation.

REX Projects for Summer 1997

Animal Science, Biology, Forest Resources, Plant Biology, Soil Science

REX 0101 Influence of Inorganic Suspended Sediment on Stream Ecosystems. (*Note: Parts of this project are located in Monticello.*) To develop an understanding of ecosystem response to various sediments, eight experimental streams will be dosed continuously with different amounts of suspended sediment. Study and documentation of reactions to each dose will be recorded.

REX 0103 Mushroom Diversity in Minnesota Old-Growth Forests. (*Note: This project is located in northern Minnesota.*) Characterize select mushrooms to obtain data on fungal biodiversity in Minnesota mature forests. Mushroom loss in Europe has been found to precede decline in forest health.

REX 0104 Impact of Soil Fertility on Crop Productivity (The). Vegetable growing is gaining importance in Minnesota, and soil fertility research to improve nutrient management practices for crops such as potatoes, carrots, and sweet corn is a focus of this project.

REX 0107 Forest Biodiversity, Productivity, and Succession. Two goals have been established for this project: to experimentally test whether tree species diversity influences other plant and animal diversity, and/or ecosystem function; and, to understand and quantify the dynamics of forest and savanna regeneration.

REX 0108 Management & Genetic Practices Which Influence Sheep Production. The objective of this project is to provide the participants with a learning experience of hands-on opportunities to work with sheep as an animal model. Activities include birthing, identification, shearing, feeding, record evaluation, and experimental data collection.

REX 0109 Impact of Agricultural Chemicals on Surface and Groundwater. Developed in conjunction with the Midwest Initiative on Water Quality, this ongoing project is part of a national program to address the impacts of agriculture on water quality.

REX 0110 Intestinal Research in Domestic Turkeys. Two different aspects are being investigated by this project: the influence of melatonin on intestinal function and the effects of eating on intestinal motility.

REX 0112 Affinity Purification of Chicken Antibodies to Plant Tubulins. This project involves purification of several antibodies to maize tubulins that have been raised in chickens. The goals are to have a supply of the different antibodies ready and available for use in immunoblotting or immunofluorescence microscopy experiments.

REX 0127 Fish and Mussels: Research Toward Conservation. Seventy four percent of our native freshwater mussels are listed as either endangered, threatened, or of special concern; more than any other faunal group. Since most require a host organism, tests will be conducted to determine the organism(s) capable of serving as host(s) for rare mussels.

REX 0131 Lacustrine Archives of Regional Environmental Dynamics. Lake sediment cores archive a sensitive record of past changes in landscapes and the water cycle. By studying a time series of changes in these signatures from cores collected across a global network, it is possible to trace the impact of climate changes on different regions.

REX 0133 Biology of Cryptosporidium Development and Host/Parasite Interaction. Cryptosporidium infection, now a well-recognized cause of diarrhea in humans and animals, is receiving attention due to recent water-borne outbreak. The goal of this research is to identify and characterize those genes which are critical for regulating developmental processes and important during host/parasite interaction.

REX 0135 Nitrogen Cycling Utilizing Sheep in Intensive Grazing and Roughage Production Systems. The primary objective of this research is to provide assessment of nitrogen cycling when forage is harvested by mechanical means and by animals (grazing). Various pasture forages will be evaluated to test the hypothesis that nitrogen cycling is more conservative in a legume/grass pasture than a pure legume stand.

REX 0137 Meat Quality and Cost of Production: Comparison of Sustainable and Conventional Beef Production Systems. This study will compare beef production and quality between conventional and sustainable (organic) production methods. It will seek to determine the differences between methods by analyzing animal performance and the product's nutritional composition.

REX 0138 Jane Goodall Data Conservation. This project consists of computerizing the research data of legendary chimpanzee specialist, Jane Goodall. Thirty plus years of original field notes from Goodall's observations in Gomba National Park, Tanzania must be converted to database format. The project seeks to preserve the originals documents while making the raw data available for further research.

Astronomy, Biochemistry, Chemistry, Engineering, Physics

REX 0203 Surface Tension of Liquid Crystal Free-standing Films. It demonstrates the existence of surface tension in the free-standing liquid crystal films (similar to a soap film on a ring) and measures it as a function of film thickness (down to 2-layer films, film thickness $\approx 25 \text{ \AA}/\text{layer}$) and as a function of temperature with a resolution of about $\pm 1\%$. REX volunteers will join the research team in preparing liquid-crystal free-standing films, and taking and analyzing surface tension data.

REX 0205 Environmental Properties of Chemicals: Explained by Partial Molar Volumes at Infinite Dilution? (Note: This project is located at UMD in Duluth) Working primarily by themselves, participants will prepare and measure the densities of miscible binary liquid mixtures of various compositions. The results will be analyzed to calculate the partial molar volumes as a function of composition.

REX 0209 Synthesis and Reactivity in Organic Chemistry. This project is interested in the pathways by which chemical reactions take place and the relationship between structure and reactivity.

REX 0210 Biodegradable Plastics from Agricultural Materials. This project involves making useful plastics from agricultural sources such as starch or protein. The objectives are to process these materials and test for their properties.

REX 0212 Structure & Protein Engineering. From knowledge of the three-dimensional structure of a protein, mutants are designed to have new and novel activities. The success of this design can be measured through the use of (1) molecular biology to express and purify the mutant proteins, (2) biochemistry to assay their properties, and (3) x-ray crystallography to determine how their structures have been altered.

REX 0215 Impact of Road Information/Incident Advisories on Drivers' Route Choices (The). Information on road delays and incidents/accidents on the road affect drivers' choice of route to work. This project seeks to quantify these effects so that we can find better ways to design traveler advisory messages on radio, TV, and variable message signs.

REX 0219 Computer Simulations of Solids & Liquids. Computers are used to describe solids and liquids at the atomic level. Vivid graphics images of the motion of atoms can be obtained. Results provide new research insights into properties of solids and liquids and are also good teaching tools.

REX 0226 Performance Evaluation of High-Performance Parallel Computer Systems. This project studies the performance of several different types of high-performance parallel computer systems and the complexity of different parallel programming languages.

REX 0227 CLEO-III Endcap Calorimeter. For this high-energy-physics experiment, this research team is building a calorimetric device using scintillating crystals. Tasks will include prototyping mechanical parts, CAD, model fabrication working with the machinists.

REX 0228 Minnesota Computer Industry Oral History. This project seeks to develop information about the Minnesota computer industry during the late 1970s and 1980s, as the dominance of mainframe computer manufacturers waned.

REX 0229 Magnetic Microscopy. Using magnetic force microscopy, a variant of atomic force microscopy, this research investigates magnetic structures with feature sizes as small as 20nm or about 100 atoms long. Studies of many fundamental systems are in progress.

REX 0230 Nanostructure Metal Cluster Growth in Viscous Media. This project seeks to synthesize nanoscale metal clusters via an organometallic synthesis. The research is a combination of synthetic, analytical, and theoretical methods by which to obtain a reliable theory of coagulation of growth with side reactions.

Medicine

REX 0300 Temporal & Spatial Expression of Growth Factors in Regeneration. This project seeks to identify cell dialogs/interactions leading to regeneration rather than scarring after injury. Temporal and spatial distribution of growth factors used during regeneration will be evaluated by molecular and histological (Immunohistochem/in situ hybrid) methods.

REX 0301 T-cells, Cytokines, and Host Defense Against *Toxoplasma gondii*. *Toxoplasma gondii* is an intracellular parasite found in both humans and animals. It causes severe disease in congenitally infected infants and immuno-suppressed people. Study the basic metabolism of this parasite as well as mechanisms of host defense against *T.gondii* in mice.

REX 0304 Continuing Studies of Cold Sensations. How does the nervous system encode cold sensations? Learn how in a Department of Oral Science research project of the different sensations produced by cold stimuli. Subprojects include a variety of electrophysiological, immunocytochemical, neuroimaging, and psychophysical studies.

REX 0306 Muscle Studies: Effects of Hyperthyroidism on Muscle; Mitosis in Mature Muscle; Muscle Regeneration. This research is attempting to characterize properties in extraocular muscles which make them subject to autoimmune attack in hyperthyroidism through three ongoing studies. The first is to characterize the effect of hyperthyroidism on certain characteristics of extraocular muscle. Second, is to assess if mature extraocular muscles undergo mitosis in adults. Third, participants may participate in the characterization of the reaction of muscle to injury.

REX 0308 Neurobiology of Pain and Opiates. This research project employs a variety of techniques to determine the chemistry, anatomy, and pharmacology of pain transmission.

REX 0321 Quality of Life After Heart Surgery. This large five-site National Institutes of Health-funded study evaluates factors contributing to recovery and quality of life after open-heart (bypass) surgery. Patients are interviewed before surgery and after surgery. From this study, knowledge and understanding of the process of recovery from heart surgery will increase so that the care and quality of life of future patients may be improved.

REX 0322 Aluminum Toxicity and Embryonic Bone Development. (Note: This project is located at UMD in Duluth) Elevated levels of aluminum have been associated with a serious bone disorder, osteomalacia. The mode of action of aluminum toxicity in the expression of osteomalacia is not well understood. This project will examine the influence of aluminum upon local versus systemic factors which are known to be important in embryonic bone development

REX 0324 Determination of Incompetency. This project seeks to determine the criteria and events surrounding decision making when an elderly person can no longer care for his or her person and possessions.

REX 0329 Biomedical Research on Skeletal Muscle Disorders. Join this research related to muscle diseases (myotonia, periodic paralyses, and malignant hyperthermia) and general skeletal muscle physiology.

REX 0332 Measurement of O₂ and pH in Muscle. Seeking to ultimately measure O₂ and pH in the muscle of humans suffering from chronic pain of muscular origin, researchers are first learning to make these measurements using microelectrodes. Initial experiments are designed to determine the reproducibility of these measurements. In addition, researchers want to know what interventions will alter O₂ and pH.

REX 0335 Analyzing Heart Images Obtained with Magnetic Resonance Imaging. The complex, advanced, and experimental examination of the heart with Magnetic Resonance Imaging techniques creates large amounts of data in the form of images. Quantitative analysis of these images with appropriate software will give a clear understanding about the functional and morphologic status of the heart.

REX 0336 Neuroimaging Studies of Brain Function and Dysfunction. This project's aim is to identify brain areas involved in specific cognitive functions and to identify possible sites of dysfunction in psychiatric disorders. Brain imaging (PET, MRI, EEG) is used to visualize cerebral activity; data are then analyzed using computers and imaging processing techniques.

REX 0337 Regional Rural Injury Study. Funded by the Centers for Disease Control, the primary purpose of this project is to identify the magnitude and potential risk factors of the injury problem in rural populations in a five-state region representative of the major types of agricultural production in the U. S. The ultimate goal is to use the results to develop agricultural and other injury prevention and control programs in rural areas.

REX 0341 Dietary Fiber Therapy. School of Nursing is conducting a clinical study to determine and compare the effects of three dietary fiber supplements. Her research addresses the problem of fecal incontinence in adults living in the community.

REX 0342 Transjugular Intrahepatic Portosystemic Shunts. The purpose of this study is to learn whether or not a procedure performed with an implantable medical device called a "stent" will decrease high blood pressure in the veins of the liver, stomach and esophagus and/or decrease accumulation of fluid in the abdomen.

REX 0343 Tunneled Central Line Catheter Migration. This study is designed to define changes in catheter tip positions. Scientists are working to determine which patients, and with what types of catheters, the tip will migrate.

REX 0344 Venous Stents. The advent of endovascular stents has provided a new option for persons with venous diseases, although the treatment of such disease continues to be problematic. The purpose of this research is to evaluate the long-term results of venous stents for the treatment of blockages and/or narrowing of blood vessels.

REX 0345 Human Movement Analysis. Two different projects comprise Human Movement Analysis, both part of ongoing efforts of the Motion Lab at Gillette Children's Hospital to understand how the pathologies associated with cerebral palsy influence muscle function and how these abnormalities can best be treated.

REX 0346 Tongue Muscle Activity During a Constant-Effort Task. This research studies fatigue associated with motor activity among people with neurologically based movement disorders and dysarthria. The main objectives are (a) development and comparison of electrodes to be used with a pliable air-filled tongue bulb, and (b) collection and analysis of electromyographic and pressure data produced simultaneously from the tongue during a constant effort task.

Noncredit Courses

REX 0347 Considerations for Antimicrobial Prophylaxis in Dental Patients. This project seeks to study side effects associated with use of antibiotic prophylaxis for specific cardiac conditions in dental patients. Major concerns: (1) frequent exposure to antimicrobial agents can result in drug-resistant microorganisms, and (2) increased expense to the healthcare delivery system.

REX 0348 Apolipoprotein E, Beta-amyloid and Alzheimer Disease. Focusing on apolipoprotein E and beta-amyloid, two proteins whose behavior in the brain is not well-understood, researchers are trying to understand how these proteins may interact and modify neuronal function. Using a combination of biophysical and biochemical techniques, they are planning to examine effects of apolipoprotein E and beta-amyloid on regulation of cholesterol in brain.

REX 0350 Renal Functional and Fibrotic Changes in Hypertensive Rabbits. Pathological changes occur during progression of an elevated blood pressure and a fibrotic process involving infiltration into the kidney appears to lead to a gradual decrease in renal excretory function. This project seeks to investigate the exciting possibility of preventing or lessening renal fibrosis and loss of function due to hypertension.

REX 0351 Continuous Ambulatory Blood Pressure Monitoring. Research has demonstrated that an individual's blood pressure may normally fluctuate significantly during the regular day based upon circadian rhythms. These normal, natural rhythms vary significantly not only daily, but weekly, semi-weekly, and seasonally. In this research study, the blood pressure of dental patients will be examined by usual, casual blood pressure measurements and compared against findings resulting from continuous monitoring of blood pressure.

REX 0352 Movement Disorders Database and Research. The three objectives of this project are: to enroll patients with movement disorders into a database, to implement patient education and awareness projects, and to facilitate commencing and ongoing research involving new medical and surgical therapies for Parkinson's Disease, tremor, et cetera.

REX 0353 Pharmacologic Induction of Weight Loss to Treat Type II Diabetes Mellitus. This project is a two-year study of the use of weight loss medications in conjunction with diet and exercise as a potential treatment for obese people with adult-onset (Type II) diabetes.

The goal of the study is to determine whether weight loss medications are effective in producing weight loss and improving blood sugar control in obese people with diabetes.

REX 0354 Effects of Neurotransmitters on Toxoplasma Gondii Tachyzoites. *Toxoplasma gondii* causes severe disease in immunosuppressed patients, in whom it has a predilection for infecting the brain and muscle. Current research is examining the effect of host neurotransmitters on the pathogenesis of toxoplasmosis and the biology of the organism.

REX 0355 Dopaminergic Function in Striatum After Cortical Injury. This project will evaluate alterations in dopamine release and metabolism, and in intracellular second messenger systems linked to the dopamine receptor in striatum of rodents having undergone brain injury. The compensatory cellular responses which underlie spontaneous recovery will be sought in hopes of eventual formulation of effective therapies.

REX 0356 Receptor Alterations in Striatum After Cortical Injury. This project will examine alterations in cellular receptors in the basal ganglia that respond to the neurotransmitters glutamate and dopamine. Changes in the sensitivity of these receptors may underlie spontaneous recovery of behavioral function.

REX 0357 Hearing Among Infants and Young Children in Minnesota. Ear infection is a common cause of hearing loss among children, especially those 3 years old or younger. Good hearing is essential in the first 3 years of life while speech and language are first developing. To determine the prevalence of hearing loss, a new test (otoacoustic emissions) which does not require the child's response will be utilized.

REX 0358 The Role of Polysialic Acid - NCAM in Schizophrenia. The project team is pursuing the molecular etiologies for causation of schizophrenia by using an animal model (mouse) which considers viral impact in neuronal expression of polysialic acid. The working hypothesis assumes that embryonic insults may be responsible for later misconnections in brain circuitry causing schizophrenia.

REX 0359 HCMC Internal Medicine Residency Program: A Systems Analysis of Inpatient Activities. The project's goal is to produce a detailed analysis of the conditions, operations, and improvement possibilities of the Residence Program in Internal Medicine. Such investigation is especially in relationship to inpatient services during a period of fundamental changes in health care.

REX 0360 Life Charting (Daily Symptom Assessment) for Mood Disorder. The objective of this project is to obtain Life Charts on patients with mood disorders. The rationale is an enhancement of both the patients' understanding and the scientific thinking about the condition.

Mental Health & Nutrition

REX 0406 Elder Role Models in Long-Term Care.

Through analysis of intensive life-history interviews, this project seeks to understand the experience of successful aging, particularly among fragile elders. Goals of the project include identifying the range of useful models of successful aging, and identifying earlier-life forerunners of successful aging.

REX 0408 Alzheimer's Disease Caregiver Training Program.

The aim of this project is development of an educational program with formal classes and structured practicum for spouses of individuals with early or moderate Alzheimer's Disease. Participants will learn how to use the cuing and assistive techniques of the Adapted Work Program with home activities.

REX 0410 Nutrition & Oral Health of the Elderly.

Although nutrition in older adults is a known factor in overall health care, little attention has been given to oral health of the elderly. Researchers are gathering data to understand the connection between good nutrition and good oral health, leading to educational programs and materials.

REX 0413 Neural Mechanisms of Hyperalgesia.

This research team is currently studying the spinal neural mechanisms that contribute to nociception in rats. The goal of the present study is to determine whether excitatory amino acids (EAAs), opiates, or other drugs can modulate hyperalgesia produced by intraplantar injection of capsaicin.

REX 0419 Perceptions of Factors that Cause Success or Failure in Weight Reduction.

This survey, conducted in the Twin Cities area, will determine the proportion of target populations who have, or have had weight problems; what techniques they used; and what they felt accounted for success or failure. The goal is to determine what measures or omissions accounted for outcome.

REX 0420 Double Blind Study of Theta Training in the Neurofeedback Training of Alcoholics with Applications of QEEG and Neurotherapy.

After training in Quantitative EEG technique, including measurements and electrode application, assist the principal investigator in QEEG acquisition and data analysis. Developing a working knowledge of alcohol dependence, attention deficit, traumatic brain injury and PTSD as related to brain wave biofeedback, and quantitative EEG.

REX 0421 Clinical Description of Paraphrenia.

After training in Quantitative EEG technique, including measurements and electrode application, assist the principal investigator in QEEG acquisition and data analysis. Developing a working knowledge of alcohol dependence, attention deficit, traumatic brain injury and PTSD as related to brain wave biofeedback, and quantitative EEG.

REX 0422 Minnesota Geriatric Evaluation and Management (GEM) Progra.

This project attempts to improve the quality of life for frail elderly people and to reduce their need for expensive care in hospitals and nursing homes. The research team screened home-dwelling elders and then provided the most frail elders with intensive interdisciplinary care to address their major health-related problems.

REX 0423 Getting the Message Across: Disseminating Clinical Practice Guidelines.

Evaluate the most effective strategies for disseminating clinical practice guidelines to nursing staff and other clinical personnel. Strategies include a continuing education program with ongoing consultations and interventions which focus on skill development and improved compliance with clinical guidelines.

REX 0424 MN Family Workshop: Intervention for Alzheimer's Families.

How can family members meet the needs of loved ones suffering from Alzheimers and take care of their own needs? Be a part of a team of researchers who are testing the effectiveness of a seven week psychoeducational program for family members caring for dementia patients.

REX 0425 Anxiety in Children and Infants.

The focus of this research is on the development of childhood anxiety disorders. This project will study children who have anxiety disorders and infants who are at risk for developing anxiety disorders. It will examine the behavior of these children, their feelings, their relationships, and their basic biology.

Noncredit Courses

REX 0426 Life Chart for Anxiety Symptoms. While a system exists to chart mood symptoms, no similar system exists for anxiety symptoms. This group of researchers believes that the same methods used for mood symptoms can be applied to the charting of anxiety symptoms and are striving toward developing a patient-friendly system to do so over time, both retrospectively and prospectively.

REX 0427 Infant Space Perception. Current research focuses on studies of perception in 7-month-old infants that explore the development of the ability to distinguish a shadow cast on a homogeneous surface and a dark region on a surface that is evenly illuminated. A second study explores the ability to perceive transparency while a third deals with distinguishing reflections on a surface from patterns on the surface itself.

REX 0429 Child Sexual Abuse: Family Characteristics and Impact of Treatment on the Family System. The current phase of this on-going project involves gathering data from families of Chicano/Latino/Hispanic background, many of whom are relatively recent immigrants. The focus is on certain characteristics and functioning of families involved in child sexual abuse, particularly factors associated with gender and sexuality.

REX 0430 Improving Patient Services at an Outpatient Sexuality Mental Health Clinic: Ongoing Patient Satisfaction Surveys. Help prepare, conduct and analyze survey's of outpatient care. The goal is to monitor and improve patient services and to monitor treatment outcomes.

Archaeology, Geography, History, Sociology

REX 0502 Relationships in Adoptive Families. The purpose of this study is to examine variations in openness in adoptive family relationships and the consequences of contact between the adoptive and birth parents for the adopted child, the adoptive parents, and the birth mother.

REX 0504 Historical Atlas of the St. Paul Central Business District. Using Geographic Information System (GIS) technology, a series of maps showing the development of the central business district of St. Paul are being created. Information from a variety of sources (i.e. Minnesota Historical Society, St. Paul Public Works Department, etc) is then added to a computerized digital basemap being developed for 1928.

REX 0507 Missionaries & the Conquest of Honduran Indians. Permanent mission stations, intended to "civilize" the Indians, were established in Honduras as early as 1545. Local and regional archives have produced a large collection of copies of 16th- and 17th-century documents relating to these Central American missions. Assistance is needed to transcribe and translate these Spanish documents about early colonial life of the Honduran Indians and the Mercedarian Order mission system.

REX 0514 Pottery Excavated in Akhmim, Egypt: Roman Traditions in the Islamic World. Pottery of the Byzantine and Islamic periods excavated in Akhmim, Egypt has been brought back to the University of Minnesota for study. This will tell them something about the way the society changed from Roman to Islamic times. Assistance is needed in assembling descriptions of individual pieces, and tabulating them to obtain a broad picture of each ware, and the relations between wares.

REX 0516 Configuring French Identity: Texts, Images, Institutions. Identify and analyze texts and images that represent various ways French national identity has been defined and constructed through cultural production and in institutions during the Classical Age, Enlightenment and the Modern period.

REX 0518 Geography of Everyday Things. Join this project and examine how interactions between humans become visible through artifacts and landscapes. REX participants will acquire information from a variety of sources, both traditional academic libraries and other product-related and consumer-oriented information repositories.

Business, Ethics, Law, Management

REX 0603 Commercialization of a New Technology: Institutional Roles in the Flat Panel Display Industry. Although flat-panel display screen's were first invented in the United States, Japanese firms commercialized the flat panel, gaining control of 95% of this electronic world market. Can the US establish itself among a successful Japanese market? Faculty from the Carlson School of Management seek answers to this question.

REX 0604 Racial Differences in Home Ownership and Mortgage Debt. Research disparities found from the national health and retirement survey, showing that African-Americans and Latino respondents --with the same income as whites-- have substantially less net worth than white respondents. Sample survey's seem to indicate that minorities are less likely to own homes, have higher relative debt, and own homes with lower prices. Research from this project will help to determine why these disparities exist and to learn what can be done.

REX 0605 Network Differences in Groups. Anyone who has worked in a group has come to realize that group work can be very problematic. This project examines why some groups succeed while others fail. In particular, volunteers will examine performance differences in groups due to contrast in the groups social network.

REX 0606 Do We Know Who Our Friends Are? The Inaccurate Perception of Social Networks. Research indicates that employees often are inaccurate in their perceptions of their own social network. This project will investigate why employees are unable to accurately distinguish their friends in the workplace and will examine why network perceptions are important in an organizational setting.

REX 0607 Impact of Procedural Justice on Employee Behavior (The). This project examines the impact of procedures on individual self-esteem within the workplace. Research shows that one may be satisfied with fair procedures yet if the outcome is negative it may in turn diminish self-esteem.

REX 0608 Orphan Medical: Primary Market Research in the Pharmaceutical Industry. Orphan Medical researchs, manufactures, and markets drugs which help people suffering from rare diseases. Because of Orphan's emphasis on rare diseases and inadequately treated patient populations, it is critical to fully understand the competitive nature of the marketplace.

REX 0610 An Empirical Study of Service Guarantee Strength and Perceived Service Quality. Service guarantees are very popular in business today. Many have claimed that service guarantees are a powerful means for a firm to improve service quality and to gain a competitive advantage. This study will examine matched pairs of service organizations to evaluate how service guarantee strength relates to perceived service quality.

Communication, Education, Languages

REX 0701 German Language in Minnesota. (*Note: This project requires travel around Minnesota.*) In an ongoing project, the project leader is recording the speech of natives of Minnesota who speak German for a linguistic analysis of the changes that have taken place in the language since it was imported into Minnesota.

REX 0703 Origin of English Words (The). This history of words is as hard to trace and as interesting to study as the rise and fall of old kingdoms or the origin of planets. This project is part of a University of Minnesota effort to compile a new etymological dictionary of English.

REX 0707 Language and Literacy Development of American Indian First-Grade Students. *Note: This project is located at UMD in Duluth* Literacy development of American Indian students in their first and second languages (English and possibly Ojibwe) will be the focus of this study. Extending previous research with Spanish-speaking children, the project leader will be observing cognitive processes in reading and relating them to language development.

REX 0709 Cognitive Processes in Reading. This set of studies investigates what makes a reader successful. Specifically, the project seeks to discover how a reader juggles the limitations of his or her attentional resources and the need to make inferences that are necessary for comprehension.

Art, Literature, Music

REX 0801 CitySongs: A Twin Cities Demonstration Project in Music. CitySongs seeks to promote healthy psychosocial development among diverse youth via popular music participation. Through regular, stable, and meaningful activity led by an admired role model, young people are taught the capacities for discipline, effort, and satisfaction at well-earned success.

REX 0802 2D on 3D. This project deals with flat or 2-dimensional images on 3-dimensional form. Goals include the following: 1) the camouflaging of 3-dimensional form, 2) the enhancing of 3-dimensional form, 3) the counterpoint of 2-D rhythm with 3-D rhythm, 4) using the former concepts to create significant form and expressive content.

Noncredit Courses

REX 0807 Goldman Band Programs 1956-1975 (The). *(Note: This project is located at UMD in Duluth)* Starting in 1919, the Goldman Band presented concerts in Duluth each summer, concluding in 1975. A set of programs from these concerts is available and, using this set, researchers seek to determine every composition programmed between 1956 and 1975 and determine the dates, locations, and number of concerts for each summer concert season from the same period.

REX 0808 St. Paul Winter Carnival: Building Community through Celebration and Costumes. The project will prepare to stage an exhibition in January of 1998 to educate the public on the history of this event. This will involve collecting data and organize it into educational themes for an exhibition that will be visually appealing and pertinent in telling the story of the event.

Elderhostel

(For those over 55)

The University of Minnesota, along with several other Minnesota colleges, offers persons 55 and older a sampling of college life through a program called Elderhostel. The colleges will offer week-long programs of residential continuing education for anyone 55 and over who has a desire to explore new ideas and meet new people, young and old. In its 19th year in Minnesota, Elderhostel is part of a national network that began more than 22 years ago.

Hostelers live in college dormitories or modest commercial facilities, interact with peers, and experience the role of student in specially designed academic but noncredit courses. There are no exams, no grades, and no previous educational requirements. Courses are often taught by regular college faculty. The cost for a one-week program is approximately \$400 for food, lodging, and class instruction. Call 624-7004 for details and registration information.

June 8-14: *Victorian Mansions, Gangsters, and Gatsby: The History of St. Paul* (repeated July 6-12, Aug. 10-15)

June 29-July 4: *City Art and Architecture: Museums, Galleries, Public Places* (repeated July 20-25, Aug. 17-22)

June 29-July 4: *Game, Set, Match! Tennis for Life*

July 20-26: *Sommerfest '97: A Music Fest of Classical Proportions and A Viennese Marketplatz* (repeated July 27-Aug. 2)

Aug. 31-Sept. 6: *Franklin and Harry: Political Powerhouses; Eleanor and Bess: Political Partners; "There'll Be Bluebirds Over the White Cliffs of Dover"*

Sept. 17-23: *Twin Cities Theater Onstage and Backstage*

ElderLearning Institute

The University of Minnesota joins more than 200 Institutes for Learning in Retirement in the United States in offering peer-directed, noncredit educational and service opportunities for older adults.

There are no exams or grades. ElderLearning Institute (ELI) members can choose from among more than 60 topic discussion groups during three 8-week sessions. Topics range from architecture to alternative medicine and exploring the classics to memoir writing. Volunteer topic leaders are current or retired faculty, community professionals, and other experts. Members and topic leaders have a common passion for lifelong learning. There is an extensive summer program of biking and visits to local sites of interest. ELI also organizes national and international educational tours.

Membership costs \$175 a calendar year. Members can take two or more topic discussions per session and participate in social, service, and travel activities. For registration materials and to receive ELI's quarterly newsletter, call 924-7195.

Enrollment Information

Anyone with a desire to learn may register for evening classes. There are no admission or entrance requirements; a high school diploma is not required.

Registration in specific programs or classes may require prerequisite courses or experience (see **Prerequisites** page 106). Students wishing to register for graduate credit, refer to page 111.

Day school students who wish to register in evening classes are urged to consult first with their college office. Day school students must pay Extension Classes tuition to attend evening classes. Under Dual Registration, admitted day school students may register during in-person registration periods at registration offices in Fraser Hall and Coffey Hall, as well as Westbrook, and have their tuition billed through STARS.

Students who have been dropped from any unit of the University or who have been placed on probation should consult with their college office before registering in Extension Classes; otherwise, there is no assurance that the credits will be accepted by the college from which they wish to earn a degree.

Extracurricular Events—No extracurricular events requiring student participation may be scheduled from the beginning of study day to the end of finals week. Exceptions to this policy may be granted by the Senate Committee on Educational Policy. The Senate advises all faculty that any exemption granted pursuant to this policy shall be honored and that students who are unable to complete course requirements during finals week shall be provided an alternative and timely opportunity to do so.

Smoke-Free Campus Policy—Smoking is prohibited in all facilities of the University of Minnesota, Twin Cities campus, except for designated private residence hall rooms.

Student Conduct Code

All students registered in courses through University College (UC) are governed by the University of Minnesota Student Conduct Code. Students who engage in behavior that disrupts the learning environment for others may be subject to disciplinary action under the code. In addition, UC may require students responsible for such behavior to discontinue course activities and may cancel their registration.

How to Determine Which Tuition Rate To Pay

Consistent with current University policy on resident status, the Department of Extension Classes began charging nonresident rates during Fall 1992. Please read the following to determine the tuition rate you should pay.

Different tuition rates are listed with each degree credit course. If you are registering for a course that has a course number beginning with zero (0xxx), only one rate will be listed with the course. If you have been admitted to a degree program at the University of Minnesota and are classified as a nonresident, non-reciprocity student, you will need to pay either undergraduate or graduate non-resident tuition rates. Student status is subject to compliance review.

1. **I have never been admitted to a degree program at the University of Minnesota.** (Pay Minnesota *Resident* tuition rates.)
2. **I have been admitted to a degree program at the University of Minnesota and am classified as a resident or reciprocity student.** (Pay Minnesota *Resident* tuition rates if you are from Minnesota. Pay *Resident* tuition rates if you are a reciprocity student from Manitoba or South Dakota. Reciprocity students from Wisconsin, North Dakota, and MSEP states, see the registration form or call 625-3333.)
3. **I have been admitted to a degree program at the University of Minnesota and am classified as a nonresident, non-reciprocity student.** (Pay *Non-resident tuition rates*.)

If you are classified as a nonresident/nonreciprocity student (definition 3 above), you must indicate that on your registration form in the Student Status section.

Graduate Credit Tuition Rates

Many 5xxx-level courses are available for graduate credit. If you are registering for graduate credit, note that four graduate tuition options are listed with the course. The amount you pay will depend on (1) whether you are classified as a resident/reciprocity student or a non-resident/nonreciprocity student (see above) and (2) whether you intend to use the course in a University of Minnesota Graduate School program.

Pay the *graduate credit* amount listed (either resident or nonresident) if you **are not** applying the course to a University of Minnesota Graduate School program. Pay the *Graduate School* tuition amount listed (either resident or nonresident) if you **are** using the course in a University of Minnesota Graduate School program. See the section on graduate credit, page 111, or check with an adviser for more information.

Courses offered as 8xxx-level courses are open only to students admitted to the University of Minnesota Graduate School; pay either resident or nonresident Graduate School tuition depending on your student status.

Enrollment Information

Residency

The basic criterion for Minnesota residency is that you have lived in Minnesota for at least one calendar year prior to your first day of class attendance and have done so for some reason other than school attendance. (If your reason for being in Minnesota is primarily to attend school, you are not considered a resident.) If you are not sure whether you are considered a Minnesota resident, or if you believe that your residency has been inappropriately classified, you may speak with the residency officer in the Office of Admissions, 240 Williamson Hall; telephone 612/625-6330 or 1-800/752-1000.

Tuition and Fees

Tuition and fees are subject to change without notice.

The full amount of the tuition and other fees must be paid at the time of registration (tuition rates in effect at the time of registration apply). Additional charges may be assessed for laboratory fees, extra materials, computer fees, or audio-visual equipment. Tuition charges and fees do not cover books. Checks or money orders must be drawn for the exact amount due, and made payable to the University of Minnesota.

Tuition options for each course are listed after the course title. Any course fees or special fees, required in addition to the tuition, are included in the total. The cost per credit varies depending on the level of the course, the tuition rate for the college, resident or reciprocity status, and whether you are applying the course of a University of Minnesota Graduate School program. In the *Course Offerings* section of this Bulletin, departments are listed alphabetically, and the college that the department is a part of is listed below the department name.

For special tuition rates for students age 62 and older, see page 116.

A regularly enrolled day school student, admitted to a college, who concurrently takes Summer Session day courses and Extension Classes evening courses must pay both Summer Session and Extension Classes tuition. *Day school students are urged to consult first with their advisers before registering in Extension classes.* Admitted day school students may register, during in-person registration periods, at the Fraser Hall or Coffey Hall registration offices or at Westbrook Hall; tuition can be billed through STARS.

Students paying by check who overpay by \$100 or less will receive a refund by mail. For overpayments more than \$100, the registration and check will be returned and students must submit a new registration and check for the correct amount of tuition and fees. Students who underpay will have their registration and tuition checks returned by mail or will be notified of additional tuition due if their registration was processed. For registered students who underpay, a hold will be placed on the student's record if payment is not received.

A \$20 handling fee is charged for all checks returned by a bank. Students should contact the Income Management Office at 138 Westbrook (624-6354) if they have any questions regarding a returned check.

No arrangements for partial payment can be made. However, VISA, MasterCard, and Discover/Novus are accepted for tuition and fees. Students in need of financial assistance should see *Financial Aids and Loans*, below.

Fee Statements

You will receive a receipted confirmation when you register. Retain this document; it is your proof of enrollment. This confirmation form is your fee statement and serves

as proof of registration in order to obtain books from University libraries, purchase student athletic and other tickets, or use student services. Duplicate copies are available in 101 Wesbrook Hall if you lose your copy or it is illegible.

Registering with an authorization for payment

All students who plan to register under the authority or with the assistance of (1) an institution, company, or scholarship; (2) federal or state agency, including military service; or (3) foreign government or agency, may register by mail or in person at 101 Wesbrook Hall, telephone 624-5577, on the Minneapolis campus.

Authorizations for payment only apply to credit courses. Students taking noncredit courses must include a check or money order for tuition (or credit card authorization).

If registering by mail, authorizations must include the following:

1. **Proper address:** Department of Extension Classes, University of Minnesota, 101 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455
2. **Student's name**
3. **Correct amount of tuition and fees** for specific classes
4. **Term or dates of eligibility**
5. **Authorizing signature** or stamp required
6. **Complete address of agency** to be billed for tuition.

To register, follow the procedures outlined under *Registration Instructions*. Include your authorization (*in place of your check*) with your registration forms.

If your authorization is already on file, you **must** include a note with your registration indicating the source of your authorization or your registration will be returned.

All materials should be sent to 101 Wesbrook Hall.

Registration forms must be filled out completely.

Financial aid

Academic Progress

Academic progress for students enrolled in degree-granting programs will be monitored by their respective college offices. UC will determine academic progress for students admitted to UC degree and certificate programs and some nonadmitted UC students not held to other college standards. In addition, students receiving financial aid through the University of Minnesota Office of Scholarships and Financial Aid (OSFA) will be held to a similar, but possibly different, standard. Financial aid recipients must meet **both** the college academic progress standard and the OSFA Satisfactory Academic Progress standard.

Registration with financial aid

Common requirements for financial aid—Because all programs administered by OSFA require admission to a degree or certificate-granting program, you are encouraged to inquire about admission at the same time you apply for aid. Other requirements common to financial aid programs include: U.S. citizen or eligible noncitizen (such as permanent resident or refugee); no prior bachelor's degree; satisfactory academic progress (see statement above); completion of an academic program within the maximum time frame allowed by the Office of Student Financial Aid; demonstrated financial need; registration in on-campus credit classes; enrollment within the maximum or minimum number of credits required for eligibility; no default on educational loans or financial repayment owed; and no tuition or other holds on your University record.

Enrollment Information

Registering with financial aid—If the Office of Scholarships and Financial Aid (OSFA) has notified you that you are eligible for grants or loans or you have received an eligible Federal Pell Grant Student Aid Report (SAR), (1) identify yourself as a financial aid recipient on your registration form and (2) do not send payment since financial aid credits and tuition charges are adjusted through the Student Accounts Receivable System (STARS) account. Your aid will be credited directly to STARS for automatic payment of tuition. If you prepay your registration, your financial aid may be delayed.

In addition to showing financial aid eligibility, you need to be admitted to a degree or certificate-granting program, be in good academic standing, and have a University record free of tuition holds and other selected holds. Contact UC Counseling at 314 Nolte Center (625-2500) if you have questions about the criteria for payment through STARS.

Students registering through STARS should register as early as possible during regular registration periods to avoid late fees and to assure that they will receive their financial aid. **The Office of Scholarships and Financial Aid has strict registration deadlines each term; students who miss those deadlines may not receive their expected financial aid.**

Having your tuition and fees billed through STARS does not guarantee 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 101 Wesbrook Hall, and (2) must pay that part of the tuition and fees that would not be refundable based on the refund policies described on page 119. Students are urged to cancel

officially as soon as they decide to drop the course. In most cases, without official cancellation, students are responsible for the total course costs after the refund period regardless of whether they have been attending class or intended to cancel.

If your financial aid award exceeds the charges to your STARS account and you choose to pick up your check for the remaining balance at the Check Disbursement Office, you must show a picture ID—either a University of Minnesota ID or a driver's license.

Students who drop below or exceed the number of credits on which their aid is based may not be able to obtain the aid or may be required to pay back all or part of the award.

Programs

Federal Pell Grant—You may be eligible for a summer Pell Grant award if you are an undergraduate admitted to a University of Minnesota degree or certificate program and you did not attend one or more quarters of the 1996-97 academic year or enrolled for fewer than 12 credits in one or more quarters of 1996-97. Minimum enrollment for Pell Grant is one credit. If you have not previously submitted a 1996-97 Free Application for Federal Student Aid (FAFSA), you need to submit an application to the Iowa City processing center by May 15, 1997. In addition, you need to submit a Summer Financial Aid Application to OSFA by June 20, 1997. For additional information, contact OSFA, 210 Fraser Hall (624-1665) or UC Counseling, 314 Nolte Center (625-2500).

Minnesota State Grant—You may be eligible if you are an undergraduate who has attended any post-secondary institution less than the equivalent of four years of full-time enrollment. Admission to a

University of Minnesota degree or certificate program is required. You must register for a minimum of 3 credits during the summer. If you have not previously submitted a 1996-97 Free Application for Federal Student Aid, your application needs to be received at the Iowa City processing center by May 15, 1997. In addition, you need to submit a Summer Financial Aid Application to the Office of Scholarships and Financial Aid (OSFA) by June 20, 1997. For additional information, contact OSFA, 210 Fraser Hall (624-1665) or UC Counseling, 314 Nolte Center (625-2500).

UC Tuition Assistance Program—You may be eligible if you are an undergraduate, part-time, UC-only student who can demonstrate financial need and you have a gap in your education totaling at least three years or have five years or more of exclusively part-time enrollment. Recipients must be ineligible for other grants, scholarships, or tuition reimbursement or have other aid which falls short of covering tuition and books. Admission is not required. Applications will be accepted until all funds are committed, or until June 6 for the first five-week and ten-week terms and until July 7 for the second five-week term. For additional information and a UC Grants and Scholarships Application, contact UC Counseling, 314 Nolte Center (625-2500).

Summer Employment Opportunities—If you are an undergraduate, or a graduate student without an assistantship, you will find jobs posted at the Student Employment Center, first floor, Donhowe Building. Job openings for graduate students are posted at the Graduate Assistant Office, 170 Donhowe Building.

Summer Loan Programs—Students may be eligible for loans if they did not attend one or more quarters, did not attend full-time one or more quarters, or did not borrow the annual loan limit in 1996-97. Completion

of the 1996-97 Free Application for Federal Student Aid (FAFSA) is required for the Ford Federal Direct Subsidized and Unsubsidized Loans, SELF, PLUS, HEAL, Law Access and Law Loans. All loans require admission to a degree or certificate program and at least half-time registration. Charges for both summer sessions are deducted from the disbursement before any credit balance is issued to the student. See the section above on Minnesota State Grants for FAFSA and summer financial aid application deadlines.

Business Firms—Many business firms are willing to help subsidize the education of their employees. Before registering, students are urged to talk with a company personnel officer about possible tuition payment that may be available for Extension classes.

Financial aid for students with disabilities—In addition to the financial aid programs listed in this section, students with disabilities may contact the offices listed below about additional financial aid options and services.

Blind students may call the Extension registration office (624-5777) concerning tuition exemption for Extension classes. Counseling regarding other financial assistance is available through the Minnesota State Services for the Blind and Visually Handicapped, 2200 University Ave. W., #240, St. Paul, MN 55114-1840 (642-0500). Tape and braille materials also are available from the Communication Center of State Services for the Blind.

Assistance on campus is available from Disability Services, 30 Nicholson Hall (626-1333).

Veterans with service-connected disabilities may be eligible for vocational rehabilitation services through the United States Department of Veterans Affairs. Write or

Enrollment Information

call the U.S. Department of Veterans Affairs, Regional Office and Information Center, Federal Building, Fort Snelling, St. Paul, MN 55111 (Toll-free 1-800-827-1000; TDD number is 1-800-829-4833).

Bank loans—Most banks in the Twin Cities area offer a “line of credit” service to handle small, intermittent loan needs. Plans vary among banks, but the borrower usually must have an account with the bank and a line of credit for a fixed dollar amount. Students should contact a bank for further information.

Regents’ Scholarship Policy—The Regents’ Scholarship Program provides tuition for University of Minnesota courses to eligible University of Minnesota civil service and union-represented staff. Staff eligibility requires employment of at least 75 percent time or 390 hours in a quarter or 585 hours in a semester in which the course is taken. Eligible staff are those on continuing, probationary, or temporary appointments or on approved leaves of absence with pay from qualifying appointments. Staff on academic year appointments are eligible for summer session courses if they were employed the preceding spring quarter and will be employed the following fall quarter. Former eligible staff on the layoff list may take up to two classes per quarter (job or degree-related) with approval from the Layoff List Coordinator (telephone 625-4855).

Regents’ Scholarship covers tuition only up to a maximum of 10 undergraduate or 6 graduate school or postbaccalaureate professional degree credits, including thesis credits, for satisfactorily completed courses. Eligible courses must be for academic credit that appears on a University of Minnesota transcript with A-F or S-N grading. Exceptions to this rule permit Regents’ Scholarship use for (1) noncredit mathematics courses, and (2) English As A Second

Language 03XX designated courses.

As of this bulletin’s publication date, the provision in the Internal Revenue Code that permitted nontaxable educational assistance has not been renewed by Congress. The tuition benefit provided by Regents’ Scholarship for graduate-level courses is currently taxable. Payroll will deduct taxes on the last four pay periods during the quarter in which the course is taken. Applicable taxes and withholding on the tuition are: federal and state income taxes; FICA (Social Security and Medicare), and Minnesota State Retirement System. Undergraduate courses are not subject to additional withholding.

Regents’ Scholarship applications are available through your department (University Stores number GS 92353). For registration information, see the *Registration Instructions* section of this bulletin. **Registrations dates for Regents’ Scholarship are June 2-13 for the first 5-week term and 10-week term and July 7-18 for the second 5-week term.**

If you have registered and paid tuition, you may not use Regents’ Scholarships to obtain a refund. Regents’ Scholarships will not be accepted by the registration office after the last day of class.

University employees on at least a 75-percent appointment may take Compleat and Practical Scholar courses for half-price (plus all course fees or special fees). See the Compleat Scholar section in the **Noncredit Course Offerings** section of this bulletin. You must submit a letter from your supervisor or department head verifying employment when you register. For limited-enrollment classes, you may register starting the first day of in-person registration. For nonlimited classes, you may register during regular registration periods.

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 graduate credit classes in Extension. For eligibility information, contact the Graduate Assistants Office, 625-5001.

Academic Staff Tuition Benefit—Faculty and professional administrative employees holding faculty appointments of 75 percent or more may register tuition-free in Extension credit classes in which space is available. Approval and employment verification from the faculty member'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 faculty member. Certification forms are available in academic departments. Information on eligibility is available from Student Relations, 150 Williamson Hall, 625-5333. **Registrations dates for Academic Staff Tuition Benefit are June 2-13 for the first 5-week term and 10-week term and July 7-18 for the second 5-week term.**

For additional information—Contact UC Counseling, 314 Nolte Center (625-2500).

Military Information

Personnel

All military personnel are urged to familiarize themselves with the registration procedures and information section of this Bulletin. University regulations and procedures apply to all students unless stated otherwise.

All branches of the armed services now provide Off-Duty Academic Instruction or Tuition Assistance Programs for military personnel on active duty. There are no application forms necessary for admission to the Department of Extension Classes. Under these programs, eligible military personnel may be entitled to tuition assistance of up to 90% a quarter credit hour for approved classes. (All classes in the Extension Classes Summer Bulletin are quarter credit whether designated five weeks or ten weeks in length.) The remaining tuition and all fees must be paid by military personnel. Interested members of the armed services are urged to contact the educational officer or commanding officer of their command for proper authorization to participate in these programs. Written authorization designating classes and amount of tuition to be paid by Army, Navy, Air Force, or Marine Corps should be presented at time of registration, at which time payment of remainder of tuition must be made. Military personnel who do not have the necessary authorization at the time of registration will be required to pay in full for their registration. When the government authorization is received, a refund for the authorized amount may then be requested. Registration must be made by mail or in person at 101 Westbrook Hall, Minneapolis campus.

Enrollment Information

Veterans

To satisfy Veterans Administration requirements, veterans using VA educational benefits must enroll in courses that are applicable to degrees, certificates, or other educational objectives approved by the VA. **Veterans must see an adviser at the UC Counseling Office before registering if they have not previously reviewed educational plans and transcripts of all previous college work with a counselor and received a letter verifying the evaluation.** Call 625-2500 to arrange for a day or evening appointment.

Veterans must be admitted to a degree program by the start of their third term of enrollment; otherwise, benefits are terminated.

VEAP (Chapter 32, the Post-Vietnam Era Veterans' Educational Assistance Program), provides benefits to individuals who initially entered active duty after December 31, 1976. While serving on active duty, the serviceperson may voluntarily contribute to an educational assistance fund. Maximum entitlement is 35 months. Application for training under this program may be made by requesting VA form 22-1990. That application form must be completed and submitted to 150 Williamson Hall with a certified copy or original copy of DD-214 and the V.A. enrollment sheet when registering for Extension classes. Payments for veterans using VEAP Chapter 32 benefits is determined by the amount of participants' contributions, DOD "kicker" if any, and number of months the veteran contributed. No payments are made for dependents.

Selected Reserve Educational Assistance Program (Chapter 106 of title 10, U.S.C.). Public Law 98-525 enacted Oct. 19, 1984, revised the existing Chapter 106 program effective July 1, 1985, and transferred program administration responsibility to the VA. The reserve components in this pro-

gram include the Army Reserve, Naval Reserve, Air Force Reserve, Marine Corps Reserve, Army National Guard, and Air National Guard, which are under the Department of Defense, and the Coast Guard Reserve, which is under the Department of Transportation, when it is not operating as a service in the Navy.

Eligibility is based on a commitment to selected reserves for six years after June 30, 1985. Check with the reserve unit for details. Graduate degrees are not approved. A veteran may work toward a second bachelor's degree.

Entitlement is 36 months of full-time training or the equivalent part-time. Benefits are payable for full-time (\$190 monthly); three-fourths time (\$142.50 monthly); and one-half time (\$95 monthly). For less than one-half time, the benefit is \$47.50 monthly. No allowance for dependents is made.

Reservists apply by completing form 22-1990 and Form DD 2384, Notice of Basic Eligibility (NOBE), obtained from the reservist's unit. These forms are then submitted with the V.A. enrollment sheet to 150 Williamson Hall.

New G.I. Bill (Chapter 30; Montgomery)—Provides benefits to individuals who initially entered active duty after July 1, 1985, and meet qualifications. Check with the Veterans Administration at (800) 827-1000.

Tuition and fees—Veterans must pay at the time of registration. They will be reimbursed later or paid a monthly allowance.

Registration—A V.A. enrollment sheet must be completed only the first time a veteran registers for a school year (fall through summer). It can be sent in with registration or separately to 150 Williamson Hall. If attending fall quarter, the sheet must be turned in then since it the start of the new academic year. The Certification Office will check your registrations for

each additional quarter during the school year and certify you for the correct number of credits.

In-person registration is encouraged for those veterans registering for the first time under the G.I. Bill.

If you register by mail for limited-enrollment classes and any of these classes have closed, notify the V.A. Certification Office in 150 Williamson Hall, 625-8076.

Veterans who wish to add or drop classes should also notify the V.A. Certification Office in 150 Williamson Hall (and officially complete registration or cancellation of classes).

Submit all forms at the same time: a completed V.A. enrollment sheet (required the first time you register each school year); registration forms; and a check for tuition plus any additional fees (write a separate check to pay tuition for each limited-enrollment class).

Cancellation and transfer—When veterans cancel or transfer classes, they must notify the certifications office in 150 Williamson Hall. This is especially important when it affects the total credit load. Transfers to or from day school must be noted with a form A19a, which is obtained from the unit the veteran is *leaving*.

Payments—For nonstandard terms (such as summer terms), payments vary according to the credits, the amount of class meeting time per week, as well as the Chapter under which the veteran is collecting benefits. Monthly benefits may differ between summer terms and regular academic quarters. Please contact either of the following for more information:

Extension/Day School V.A.
certification 625-8076

Veterans Administration 800-827-1000

Advance Pay—Veterans registering for at least one-half time benefits and who have

been out of school for at least one full calendar month are eligible for advance pay. This can be requested by filling out an *Advance Payment Request Form* obtained by writing or calling the Veterans Office, 150 Williamson Hall, University of Minnesota, 231 Pillsbury Drive S.E., Minneapolis, MN 55455, or by filing in person at this office. Request cannot be made later than 30 days prior to the start of classes, nor earlier than 60 days before classes begin. Students who are registering for classes by mail and are submitting a request for advance pay must send all forms in before May 5 for the first 5-week term and 10-week term and before June 14 for the second 5-week term.

Application for advance pay *will not* be accepted later than the following dates:

First 5-week term—May 12

Ten-week term—May 12

Second 5-week term—June 19

Except for advance pay requests, no certification can be sent to the VA earlier than the beginning of each term, regardless of when a veteran registers.

Satisfactory Academic Progress—Established standards of satisfactory progress can be found in the individual college bulletin for each degree program. Veterans who are not yet admitted to a degree program will be held to the UC academic progress standards as described in the *Academic Progress* section of this bulletin. In the past, VA regulations have changed often and without advance notice. The information in this section was correct when this Bulletin went to press, but is subject to change without notice.

The VA has established these guidelines:

1. Any grade of "N" will be reported to the VA. The VA will adjust benefits retroactive to the beginning date of the term, resulting in an overpayment.

Enrollment Information

2. Any withdrawals will be reported to the VA, which will result in an adjustment of benefit, and possibly an overpayment.
3. Any grade of "I" will be reported to the VA if it is not made up by the end of the term in which the veteran is enrolled. The VA will adjust benefits back to the beginning date of the term in which the "I" was assigned, resulting in an overpayment.

It is the veteran's responsibility to keep informed regarding current VA rules.

Students who have questions should call the appropriate number listed below:

Extension Classes G.I. information	624-3341
Extension/Day School G.I. Certification	625-8076
Independent Study G.I. Certification	624-0342
Program Counseling	625-2500
<i>(necessary course work—degree planning)</i>	
Unsatisfactory Progress Problems	625-8076

Prerequisites

A prerequisite indicates competence needed to enter a course. It may be a preliminary course, experience, or approval required before a course may be taken. Students will find a course prerequisite (if any) listed at the end of a course description. Usually there is no prerequisite for beginning courses. However, courses with two or more parts must be taken in sequence unless otherwise specified. Most advanced courses do have prerequisites and should not be attempted unless the student has had the stated previous course or its equivalent.

Occasionally, students who have had the equivalent study, training, or experience

related to the course desired may be exempted from the prerequisite by the instructor.

If an instructor decides that a student is not qualified once the class has begun, the student may be permitted to transfer to another course without penalty or cancel with a full refund under the following conditions. The student must obtain from the instructor a written statement explaining that the student does not have the necessary background or prerequisites to complete the course. This statement must be obtained by the fourth class of the term. To transfer to another class, the student must also have written permission from the instructor of the class he or she is entering if the class has met two or more times. Transfers should only be considered very early in the term. To receive a full refund, the student must officially cancel by mail or in person using a cancellation form available from the Extension Classes registration office, 101 Westbrook Hall. Cancellation should be done as early in the term as possible and must be completed by the fourth class of the term. Cancellation after the midpoint of any term may encounter grade recording delays. See **Refunds in Rules, Regulations, and Policies**, page 117.

A prerequisite course may not usually be taken for credit after the advanced course has been satisfactorily completed.

Course numbers beginning with the numeral "8" are open only to students **admitted to the University of Minnesota Graduate School**.

Academic Progress

Academic progress for students enrolled in degree-granting programs will be monitored by their respective college offices. UC will determine academic progress for

students admitted to UC degree and certificate programs and some nonadmitted UC students not held to other college standards. In addition, students receiving financial aid through the University of Minnesota Office of Scholarships and Financial Aid (OSFA) will be held to a similar, but possibly different, standard. Financial aid recipients must meet **both** the college academic progress standard and the OSFA Satisfactory Academic Progress standard.

If you apply for or receive financial aid, you are responsible for knowing and meeting OSFA requirements for satisfactory academic progress. Students who do not meet the criteria for good academic standing will not be eligible to receive financial aid, veterans benefits, and specially funded programs, and are subject to withdrawal from academic programs.

Students determined not to be in good academic standing will have an opportunity to appeal their status if there is additional information to present which may change their academic standing. Students are encouraged to contact an academic progress adviser at 625-2500 for more information and assistance in reviewing options, study skills, and steps that might improve academic standing.

Grades

A-F Grading System—Five grades, A (highest), B, C, and D (lowest), indicate completion of a course. The grade of F represents performance that fails to meet basic course requirements and is unworthy of credit.

S-N Grading System—The S-N system represents an alternative to the A-F system. S represents achievement that is satisfactory to the instructor for the class in which the student is registered. (The standards for S may vary from one class to another.) The

symbol N, which stands for no credit, is assigned when the student does not earn an S and is not assigned an incomplete (I).

Students wishing to take courses under the S-N grading system should be aware of the limitations placed on the system by the college in which they intend to earn a degree. Each college determines to what extent and under what conditions each system may be available to its students. Any college may specify what course or what proportion of courses taken by its students or by prospective students must be on which grading system. The A-F and S-N grading systems cannot be combined in a single course by a student. Students may receive grades only from the grading system under which they are registered.

Choice of A-F or S-N grading system must be indicated for each course listed on the registration form at the time of registration, and **may not be changed after the first week of any 5-week summer term or second week of the 10-week term** (there is no fee for changing). For University of Minnesota graduate students, grade base may not be changed after the first week for summer terms. Changes can be made only in person or by writing the Department of Extension Classes, University of Minnesota, 101 Westbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455. *If the student does not indicate the grading system desired on the registration form, the A-F system will apply.*

A symbol of I (incomplete) will be assigned at the discretion of the instructor when there is a reasonable expectation that the student can complete successfully the work of the course. *Do not re-register for this course in a subsequent quarter* (both registrations and grades would then be listed on your transcript). Student and instructor should arrive at a clear understanding in advance as to whether the student may

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receive an I and what the conditions will be. An I that is not made up by the end of the next quarter in which the student is registered becomes an F under the A-F grading system or an N under the S-N grading system. When an I is changed to a permanent grade, the I is removed from the student's record. Veterans are advised to read information under *Satisfactory Academic Progress*, page 106. Check with an adviser (625-2500) if you have questions about an I grade.

The symbol K (continuing) is assigned by an instructor to indicate that the course is still in progress and that a grade cannot be assigned at the present time. Upon completion of the course, a permanent grade is assigned.

The symbol X (not to be confused with registration for extra credit) may be reported in continuation courses in which a grade cannot be determined until the sequence is completed. Upon completion, a separate grade is substituted for each X.

The symbol W indicates official cancellation without grade. It is assigned in all cases of official cancellation through the midpoint of any summer term, regardless of the student's standing. After that time, cancellations are permitted only in extenuating circumstances by Scholastic Committee approval. Please contact an adviser at 625-2500 for assistance.

The symbol V (visitor) indicates registration as an auditor or visitor (see *Auditors*, page 115).

Grade-Point Average—For purposes of determining grade-point average, grade points are assigned to the permanent grades as follows: for each credit of A, 4 grade points; B, 3 grade points; C, 2 grade points; D, 1 grade point; F, 0 grade points. A student's grade-point average is determined by dividing the sum of grade points by the sum of credits attempted, and passed. Please

contact an adviser at 625-2500 for information about the calculation of your grade-point average. The N grade, for example, is used in determining the average in some colleges but not others.

A student who is considering repeating a course for which he or she has earned credit should check with an adviser at the UC/CEE Counseling Office (625-2500) before registering. Each college within the University determines its own policy and procedures on repetition of courses for credit and recognition of grades.

Transcripts and Grade Reports

Three types of service are available to obtain official transcripts: regular service, rush service, and FAX service. (Official transcripts are certified and signed by the University Registrar.) Regular service is available for \$4 a copy. Processing time for regular service is two to three workdays; after processing, your transcripts will be mailed to the places you have specified. Rush service on your official transcript requests is available for \$8 a copy. Rush service guarantees your transcript will be issued to you in person or put in the mail on the same day it is requested. You must have a picture I.D. (student identification card, driver's license, or current passport) to receive over-the-counter rush service.

FAX service is available for \$10 a copy. FAX service guarantees your transcript will be sent to the FAX number you specify on the same day it is requested. Prepaid courier service may also be requested for both regular and rush service. Visit the transcript service (150 Williamson Hall, Minneapolis campus, or 130 Coffey Hall, St. Paul campus) for more information or call 625-5333.

Requests for official transcripts can be submitted by mail or FAX, or dropped off at the locations below. No telephone requests

are accepted. Requests should include your full name and signature, a daytime phone number, your student I.D. number, college, dates of enrollment, and complete address(es) for mailing the transcript(s). You can send your requests to Transcript Service, 150 Williamson Hall, 231 Pillsbury Drive, University of Minnesota, Minneapolis, MN 55455, or to Office of the Registrar—St. Paul, 130 Coffey Hall, 1420 Eckles Ave., University of Minnesota, St. Paul, MN 55108. FAX requests can be sent to either (612) 625-4351 (Minneapolis) or (612) 624-4943 (St. Paul).

Payment options for in-person requests include payment by check, money order, cash, or major credit card (Visa, MasterCard, or Discover). Mail requests can be paid by check, money order, or credit card. FAX requests must be paid by credit card. Make your check or money order payable to the University of Minnesota for \$4 or \$8 a transcript. Include the following credit card information for all FAX requests (\$10 a copy) or when paying for mail requests by credit card: the type of card you are using, the credit card number, expiration date, your signature, and the signature of the card holder if different. Scanned or computer-generated signatures are not accepted.

You may pick up an unofficial copy of your record by presenting your picture I.D. at the transcript window in 150 Williamson Hall. There is no charge for an unofficial copy; however, there is a limit of one copy per day.

Grades and credits for Extension undergraduates are automatically recorded on a University transcript and all previous Extension registrations are transferred to this record. Graduate and professional school students still must petition their school or college if they want Extension credits accepted in their degree programs. Complete a "Request for Transfer" form at the Ex-

tension Classes Registration Office, 101 Wesbrook Hall, or at the Student Relations Unit, 150 Williamson Hall (625-5333).

Grades by mail—Grades for each term are no longer mailed from the Office of the Registrar. You may access grades by using a touch-tone telephone. Recent-term grades, overall g.p.a., and total credits are available by 624-5200; see instructions below under *Grades by telephone*. If you need a paper copy of your grades for tuition reimbursement, contact the Extension Classes registration office at 626-9798.

Grades by computer—You may look up your grades on computer through the University's Student Access System, part of the Administrative Information Services (AIS) Public Access Information menu. Terminals are available in registration offices in 202 Fraser Hall and 130 Coffey Hall, in 150 Williamson Hall, and on the LUMINA terminals in the libraries. From another computer, you may also use e-mail through Gopher and the internet; read about accessing your e-mail account on page 125. You will need your student ID number or social security number, and your password. All information requests and choices are simple keyboarding or menu-driven. When you reach the public access screen, select menu item 13; you will then go to an initial entry screen where you enter identification information. If you have not previously set a password, a password screen will appear. You will then get the primary option menu where you may select from several options dealing with registration, day school course availability, and grades and records. For Extension classes grades, select option 3. The system is available Monday–Thursday, 7 a.m. to 12 a.m.; Friday, 7 a.m. to 10 p.m.; and Saturday, 8 a.m. to 6 p.m. (except University holidays).

Grades by telephone—You can now access your grades using the Gopher Student Line, a touch-tone telephone voice response

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system. Dial (612) 624-5200 and follow the instructions you hear. From the main menu, press 1 for grades. You may then press 1 for grade availability dates or press 2 to continue. You will need your student I.D. number or social security number and your password. Your password will be the same one used for the computer-based Student Access System. If you have not used the Student Access System, your password is your six-digit numeric birthdate (mmddy). The three most recent University terms are available as well as your current total number of credits and your current g.p.a. The system is available Monday–Thursday, 7 a.m. to 12 a.m.; Friday, 7 a.m. to 10 p.m.; and Saturday, 8 a.m. to 6 p.m. (except University holidays).

Student Identification Number and U Card (Student I.D.)

A University identification number is assigned to undergraduate transcripts upon registration into Extension classes. Always include the I.D. number when you register or complete other University forms. Students registering for the first time should allow two to three days to process their records before requesting the U Card (student I.D. card).

Extension students registered for credit classes are eligible for a University I.D. card, the “U” Card, and are encouraged to obtain one. The U Card is free and is much more than a photo I.D. It is used for such campus services as libraries, computer labs, and recreational sports facilities. Encoded magnetic stripes also are read by many campus vending and copy machines and at cashier sites (you must make a deposit in the Gopher GOLD account), which will subtract charges from the account when you make purchases in this manner. A paid fee statement and picture I.D. also can be used to request student services instead of the I.D. card.

The U Card also provides elective multi-purpose banking and telephone calling card options. With a TCF checking account, the U Card becomes an ATM card, a debit card for campus purchases, and allows you to apply for TCF Visa or MasterCard. The TCF account features free checking and ATM transactions and no minimum balance. Through an AT&T account, the U Card serves as a calling card offering reduced long-distance rates with volume discounts.

Your first U Card is free and is available at the U Card office in 40 Coffman Union (8:30 a.m. to 4 p.m.) and also at the University Recreation Center (extended hours available). Call 626-9900 for details or visit web site <http://www.umn.edu/ucard>. Bring a driver's license or passport and proof of registration (your fee statement) with you. U Card eligibility, requirements, features, services, charges, and office hours are subject to change.

Credit and No-Credit Registrations

Credits

All credits listed in Course Offerings are quarter credits. All credits are clearly labeled as to use. Each credit usually requires, on the average, a total of three hours a week of a student's time, counting both in-class and out-of-class time.

1. Degree credit means that a course may be used in a degree program. A student who seeks a degree should be aware that all degree credits attempted in Extension Classes will be added to the student's college transcript.

A few Extension courses carry a number of credits different from the number of credits carried by the same course offered in day classes. If a course carries the same course number as a day course, it usually will

satisfy the same prerequisite, distribution, minor and major requirements met by the day course.

Residence—Credits earned in undergraduate Extension classes are University residence credits; however, until students have been formally admitted to the college from which they expect to obtain a degree, these credits are not necessarily considered to meet the college residence requirements of individual colleges of the University.

2. Certificate credit means that the course so marked may be used in appropriate Extension certificate programs. Certificate credit courses are University-level courses but cannot be used toward a degree. See page 494 in the 1996-97 *Extension Classes Bulletin* for further information.

3. Entrance credit designates a course which may be used to meet University admission requirements.

4. No credit means that no credit is given for the course, although grades may be assigned (except for students registered on any reduced, no-credit tuition plan).

Use at other institutions—The applicability of credits earned in Extension, as in day classes, toward a degree at another institution is determined by that institution. Students taking University of Minnesota credits for use at another school are advised to get written approval from their degree-granting institution in advance to ensure transferability.

Graduate School credit

Students who intend to pursue graduate-level course work through University College enrollment should be familiar with the instructions in both this bulletin and the Graduate School bulletin. A Graduate School bulletin may be requested from the Graduate School, 309 Johnston Hall, 101 Pleas-

ant Street S.E., University of Minnesota, Minneapolis, MN 55455 (625-3014). The bulletin is also available at web site <http://www.umn.edu.commpub/grad/grad.html>.

Course numbers beginning with the numeral "5" may be taken for graduate credit by qualified students only if the instructor holds a Graduate School faculty appointment and the course description includes a statement indicating that graduate credit is available.

Course numbers beginning with the numeral "8" are open only to students **officially admitted** to the University of Minnesota Graduate School.

Note that the inclusion of graduate-level courses on a UC transcript neither implies nor guarantees admission to the University of Minnesota Graduate School, nor does it guarantee that such course work will be approved for transfer to a Graduate School student's degree program.

Planning a University of Minnesota Graduate School Degree Program—Students intending to apply UC course work toward a University of Minnesota Graduate School degree must plan a coherent and relevant program of study. They are expected to review their plans with the Director of Graduate Studies or a qualified faculty adviser in the field of their choice. Special attention must be paid to the amount of course work that can be transferred to a degree program from outside the Graduate School, including from UC.

Course work for the Graduate School's Master of Arts in English, the weekend Master of Social Work, the Master of Liberal Studies, and Master of Business Taxation programs may be completed entirely through UC registration. Students who wish to apply UC course work toward a Master of Science degree in Food Science should

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consult with their Director of Graduate Study concerning the number of credits which may be transferred from UC.

Transfer limits for master's degrees—

Students in all other Graduate School programs leading to the master's degree are required to register through the Graduate School for at least 60 percent of the course work on their approved master's degree program.

The remaining 40 percent of the course work required for the master's degree may be transferred from approved sources. The Graduate School will consider for transfer courses that meet the following criteria:

1. The courses must be completed as an adult special, summer special, or UC registrant at the University of Minnesota (such course work from other colleges and universities cannot be transferred), or as a formally admitted and registered student in an accredited graduate school at another university. A student may request that work be transferred from more than one such source, but no more than 40 percent of the total course work may be transferred from any combination of these sources.
2. The courses must have been taken for graduate credit (postbaccalaureate) and taught by faculty members authorized to teach graduate-level courses.
3. The courses must be used to satisfy Graduate School degree program requirements. Courses that are not required by the student's degree program cannot be transferred to the Graduate School transcript.

All requirements for a master's degree must be completed within seven years of the date of the oldest course work on the approved degree program, including any transfer work.

Transfer limit for doctoral degrees—

Students in a Graduate School program leading to a doctoral degree may transfer

no more than 12 credits from UC to the doctoral program.

In all cases, requests to transfer course work are subject to early review and recommendation by the student's Graduate School faculty adviser and Director of Graduate Studies and must receive final approval from the Graduate School. *Individual Graduate School programs may specify more restrictive requirements than those described above.*

UC graduate-level registration and fees—

A student who wishes to receive graduate-level credit for a UC course which is available for graduate credit must indicate this on the registration form and must pay either the graduate credit tuition rate or the University of Minnesota Graduate School tuition rate. Students classified as nonresident/non-reciprocity students must pay non-resident tuition rates. Students classified as reciprocity-approved (Wisconsin, North Dakota, South Dakota, Manitoba) should check with the registration office for tuition rates.

By indicating registration for graduate credit on the registration form, the student notifies the instructor of the course, who then indicates on the final grade report whether the work was completed at the graduate level. If the work was completed at the graduate level and graduate tuition was paid, the course is entered onto the student's undergraduate transcript with an asterisk (*) printed next to the course listing.

A student who wishes such work to be transferred to the Graduate School transcript must submit a copy of the undergraduate transcript to the Graduate School when filing the degree program form. This transcript must show that the work was taken for graduate credit, and must indicate a final grade for the work; course work that is "Incomplete" or for which no grade has been submitted cannot be transferred.

In order to change a UC registration from undergraduate to graduate credit (or the reverse), students must write or go to the Extension Classes Registration Office, 101 Wesbrook Hall, University of Minnesota, 77 Pleasant Street S.E., Minneapolis, MN 55455 (telephone calls are not acceptable). This may be done at any time during the period of instruction. Contact a UC Scholastic Committee representative at 625-2500 with questions.

A regularly enrolled day school student who concurrently takes day school courses and UC courses must register separately in day school and in UC and must pay both day school and UC fees.

Recent policy changes—Students who register for 8000-level course work in UC who want graduate credit must pay Graduate School tuition rates. Students who register for 5000-level course work in UC who want graduate credit must pay either the graduate credit tuition rate or the University of Minnesota Graduate School tuition rate (for courses that are to be applied to a Graduate School program). Courses for which graduate credit is available usually include the graduate credit tuition cost and the University of Minnesota Graduate School tuition cost after the course title.

If a course taken previously is approved for transfer to a University of Minnesota Graduate School transcript, the student must pay the difference between UC and Graduate School tuition. The tuition differential to be charged will be the difference between the rates in effect at the time the course was taken. If the tuition is not paid, a hold will be placed on the student's Graduate School record by UC. Check with the Extension Classes Registration Office, 101 Wesbrook Hall (625-3333), if you have questions.

Also, students who take courses at the graduate credit rate and later choose to

transfer those credits to a Graduate School degree program must pay the difference between the tuition paid and the Graduate School tuition rate in effect at the time the course was taken.

Transfer of UC graduate-level course work—Registration for graduate credit and payment of Graduate School tuition rates does not guarantee that a course will be accepted for transfer to a Graduate School degree program. The use of UC graduate-level course work to satisfy degree requirements at an institution other than the University of Minnesota will be entirely the prerogative of the student and the institution to which he or she submits the transcript, and is not the responsibility of either UC or the Graduate School of the University of Minnesota.

Continuing Education Units (CEUs)

The continuing education unit (CEU) is a nationally recognized unit of measurement awarded to participants in a qualifying non-credit continuing education program. One CEU is defined as 10 contact hours in an organized continuing education activity under responsible sponsorship, capable direction, and qualified instruction. CEUs can become part of your permanent University record. For information, contact the Department of Professional Development and Conferences Services, 214 Nolte Center, on the Minneapolis campus; telephone (612) 625-6616.

Other Options for Earning Credit

If through personal experience or occupation students have gained knowledge which they believe should qualify them for University credit, or if they wish to work on their own to earn credit for a project or course, several options are available.

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Students may obtain information on these alternatives by calling University College Counseling, 625-2500. Following is a summary of the various options available.

Independent Study “Y”

Many degree credit courses have been identified by academic departments as courses in which students may study independently (designated as a “Y” registration) without attending class sessions. In some instances, written instructions are available; in others, direct consultation with the instructor is necessary for planning the student’s work. Regular fees are charged for independent study “Y” registration.

Independent study can be arranged for any course so identified by an academic department, whether it is offered in day or evening hours. Department and instructor approval is necessary and a special form for that purpose, with the appropriate signatures, must be presented at time of registration. Registration is then completed in the usual manner but with a capital “Y” added after the course number. For the special permission form and for further assistance in making “Y” registration, consult the UC Counseling Department, 314 Nolte Center, 625-2500.

Extra Credit “X”

Students may register in a degree credit course for one, two, or three extra credits (beyond those a course carries) provided the course instructor approves. Fees are based on the course level, number of credits, and the college in which the credit is earned. The student works independently, meeting requirements set by the instructor. Extra credit study allows for more intensive study of a course topic or study in a related topic in which no regular course is offered. Department and instructor approval is necessary and a special form for that purpose with the appropriate signatures must be presented at time of registration.

Registration is then completed in the usual manner but with a capital “X” after the course number. For the special permission form and for further assistance in making an “X” registration, consult UC Counseling, 314 Nolte Center, 625-2500.

Directed Studies/Directed Research

A wide range of opportunities is available to Extension students for earning college credit for individually designed study or research projects. These projects may be organized around their job activities, their involvement in the community, or around special interests that students have in a particular topic. A student wishing credit in Directed Studies or Directed Research should contact a faculty member in the particular area in which he or she is interested, determine if the department lists specific course numbers and titles for such registration, and obtain faculty and department approval. A special form for that purpose, with the appropriate signatures, must be presented at time of registration. Registration is then completed in the usual manner with the correct Directed Studies or Directed Research number of the department. For the special permission form and assistance in making Directed Studies or Directed Research registration, consult UC Counseling, 314 Nolte Center, 625-2500.

Special Examination

Students who, through independent study, experience, or study at a noncollegiate institution, have gained knowledge which is equivalent to that covered by a particular University course, may earn credit for it by passing a special examination on the subject matter covered by the course. They must obtain approval from the department offering the course. There is a \$30 fee. Other restrictions apply; contact UC Counseling, 314 Nolte Center, 625-2500.

College Level Examination Program

The College Level Examination Program (CLEP) has been established by the College Entrance Examination Board to enable individuals who have acquired their education in nontraditional ways to demonstrate their academic achievement. CLEP examinations in five areas—English, mathematics, natural sciences, social science/history, and humanities—are available for a fee to Extension students who may be considering entering certain degree programs. Students will receive credit upon passing one or more tests, provided they have a satisfactory score and have not yet completed requirements in the appropriate area. Since the various colleges use different criteria in accepting CLEP results, students should contact UC Counseling, 314 Nolte Center (625-2500) for details.

University College Directed Study

University College provides an undergraduate directed study registration (UC 3075) available to students who wish to pursue faculty-supervised projects that go beyond the scope of any single department or college of the University. Projects are interdisciplinary in nature and/or are facilitated by faculty from departments that do not have an appropriate undergraduate directed study course. Students will be asked to consult with their faculty monitor and complete a UC 3075 contract prior to registering. Students may take 2 to 15 credits of UC 3075. Further information may be obtained from the Inter-College Program Office of University College, 107 Armory, 624-2004.

Independent and Distance Learning

Independent and Distance Learning (formerly the Department of Independent Study) offers a wide variety of credit courses through correspondence, many including audio, video, and computer software materials.

All requirements can be completed by mail; e-mail is an option for many courses. Courses marked in this Bulletin with (IDL) following course titles are also taught through Independent and Distance Learning. These courses can be used toward fulfilling distribution requirements in most University undergraduate degree programs, and all University College certificate programs accept such credits. Credits earned through Independent and Distance Learning may be used to satisfy residence requirements with college approval. Interested degree students should check with their college offices for confirmation. Visa, Mastercard, or Discover/Novus card may be used for payment. The *Independent and Distance Learning Bulletin* listing 350 courses and general information is available from Independent and Distance Learning, University of Minnesota, 45 Westbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455; telephone (612) 624-0000 or 800-234-6564; FAX (612) 626-7900; or e-mail indstudy@maroon.tc.umn.edu. Or you can look up the course catalog on the World Wide Web at <http://www.cee.umn.edu/dis/>

Auditors

A student who wants to attend classes, but does not wish to do all the required work, may register as an auditor by placing an "X" in the appropriate box on the registration form. **An auditor is expected to attend class.** Non-attendance may result in an "N" grade recorded on the student's transcript. Auditor status carries no credit. One may not later take for credit a course which has been audited; exceptions to this rule may be allowed upon consultation with an adviser in the college or school concerned. Auditors pay the same tuition and fees as other students.

Instructors may choose whether or not to evaluate an auditor's work in a course. If you want your work evaluated in a course

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you are auditing, check with the instructor **before** registering to see whether he or she will evaluate the work required for the class.

Requests for change from credit registration to audit registration are made in person or by writing the Department of Extension Classes, University of Minnesota, 101 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455; 625-3333.

After the midpoint of a summer class, requests for change must be approved by the instructor; approval is granted only if the student is doing passing work at the time of the request. The grade-base form (changing from credit to audit) with the instructor's signature must be received before the official start of final exam week for that term. Starting final exam week, it is up to the student to have the instructor place a "V" grade on the grade report. No 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.

Changes from audit to credit will not be allowed after the second week of any summer term.

Courses audited are officially recorded on the student's University record and transcript.

High School Students

Advanced high school students who want to take Extension classes for credit should contact an adviser in the Advanced High School Student Services Office, 201 Wesbrook Hall, 626-1666.

Continuing Education for Women

Continuing Education for Women offers credit and noncredit classes in times, formats, and locations designed to accommodate student needs. Most credit classes meet once or twice a week during the day at off-campus locations.

Noncredit classes are offered as part of the Compleat and Practical Scholar curricula and provide participants with an opportunity to continue learning in a wide variety of areas without grades, exams, or extensive homework. See the Compleat Scholar and Practical Scholar sections of this bulletin for a list of noncredit course titles and complete descriptions.

The Continuing Education for Women Mucke/Roff Scholarship Fund was established especially for students registering for credit Continuing Education for Women courses. Awards are made on the basis of scholastic ability, motivation, previous achievement, financial need, and realistic plans. Information is available from the UC Counseling Office, 625-2500.

Persons 62 and Older (credit and no-credit options)

Minnesota state law allows persons 62 and older to register in credit classes at reduced cost (credit registration) or no cost (no-credit registration) on a space-available basis. Only tuition is reduced or waived; course fees and special fees, if any, must be paid.

Credit course registration—Credit courses may be taken for University credit for only \$6 a degree, certificate, or entrance credit plus any fees. Or these courses may be taken free for no credit.

When registering by mail, students should be sure to include the completed registration forms and a check made payable to the University of Minnesota for special fees or course fees. If registering for credit, be sure to include \$6 a credit plus any fees. A separate check is required for each limited-enrollment class a student wishes to take.

Registration dates for persons 62 and older registering on the reduced-tuition plan are June 2-13 for the first 5-week term and 10-week term and July 7-18 for the second 5-week term.

Compleat and Practical Scholar non-credit classes—Persons 62 and older receive a 10-percent discount on many non-credit classes. The tuition cost for persons 62 and older is listed in parentheses after the regular tuition in each course description. (Discounts do not apply to Compleat Scholar Weekends.) Participants must pay any course or special fees. This discount may not be combined with other discounts. Students may register during the regular registration periods.

Late fees—There are no late fees for persons 62 and older registering under the reduced-tuition option.

For general information, telephone 625-3333.

Also see the description of **Elderhostel**, page 95.

Rules, Regulations, and Policies

Changes in Courses

All changes occurring after the publication of the Bulletin are posted in the desk copy bulletin at each of the registration locations. You may consult the Extension Classes home page on the World Wide Web <http://www.cee.umn.edu/extc> to view the most current version of the bulletin and check on course availability.

Class Attendance

Students (including auditors) are responsible for attending classes in which they are registered. (See also **Credits Without Class Attendance**, page 114.) A student who cannot attend a class session should arrange with the instructor—in advance, if possible—to make up the work.

Cancellation by Extension Classes

While the Extension staff sincerely regrets to do so, it is sometimes necessary to cancel classes with insufficient enrollment. The department reserves the right to cancel, postpone, limit enrollment, split or combine classes, and to change instructors or locations of classes.

Cancel/Add (Transferring) Classes

Students who wish to cancel/add classes or class sections (if space is available), after being officially registered, can do so either in person at 101 Westbrook Hall, by FAX, or by mail.

You must officially cancel; simply stopping class attendance does not constitute cancellation; you will receive an F or N grade if you do not cancel officially.

Students who wish to cancel/add after an initial registration will be subject to the following fees and conditions: Prior to and during the first week of classes—none; during the second week of classes—\$10, if accepted; during or after the third week of classes—\$20, if accepted.

Students may not cancel/add from the first 5-week session or the 10-week session to the second 5-week session after June 17.

Students who wish to cancel/add after the first week of classes must meet the following conditions:

Cancel/add during the second week or after—After the end of the first week of a term, no cancel/add will be accepted without *written* permission of the instructor of the course the student wants to add.

Any cancel/add after the midpoint of the term requires scholastic approval.

There will be no late fee if: (1) University requests the cancel/add be made; (2) the

cancel/add is required because of an unacceptable grade in a prerequisite course (see Grades, page 107); (3) cancel/add is required because of University cancellation of course in which previously registered, provided such transfer is made within one week from date of cancellation of class; or (4) cancel/add is between sections of a course with the same course number.

Note: Those wishing to take a University Extension class for no credit, but who need a transcript and a record of their registration, must register as auditors and pay full tuition.

Students are requested to present their fee statements at the time of transfer.

Veterans—Any veteran registered under the G.I. Bill must notify the Extension Veterans Office, 101 Wesbrook Hall (624-3341), and the V.A. Certifications office in 150 Williamson Hall, when transferring classes. This is essential when it changes the credit load.

Tuition payments made by credit card cannot be transferred from one course to another. Your account must be credited for the tuition payment for the canceled class and a new charge made for the added class. Your account balance may show both charges until the credit is posted.

Transfers from Other Colleges

A student may register for Extension classes without going through formal admissions or transfer procedures. However, if students plan to complete a degree program through Extension classes, they must apply and be admitted to a college. Consult UC Counseling, 314 Nolte Center (625-2500).

Cancellations

How to Drop a Course

Students who wish to cancel a class or classes must do so officially, either in person, by FAX, or by writing to the Department of Extension Classes, University of Minnesota, 101 Wesbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455. Cancellations are not accepted by telephone. After canceling officially, students will, if eligible, receive a refund (see **Refunds**, page 119), and will insure entry of the appropriate symbol on their grade report. If students officially cancel within the first week of a 5-week term or within the first two weeks of a 10-week term, the course they cancel will not appear on a transcript.

Students who officially cancel from a class before the dates listed below will automatically receive a “W” (withdrawal) on the grade report. This symbol means “official cancellation without a grade.” Cancellations by mail are effective the date of the postmark (or date received if sent through campus mail or FAX).

Cancellations are not permitted without Scholastic Committee approval after the following dates:

- First 5-week term: July 7
- 10-week term: July 28
- Second 5-week term: August 14

Scholastic Committee approval is only granted under unusual circumstances. College guidelines for cancellation will be strongly considered for students who are admitted to a degree program at the University of Minnesota.

Students should obtain a petition form from the registration office in 101 Wesbrook Hall. Instructor verification that the student is doing passing work is required. Completed cancellation forms, the petition

form, and instructor's verification must be received by the Extension Classes registration office before the course final exam for that summer term. Students will be notified by mail of the scholastic committee decision.

Cancellation forms are available at the Extension Classes registration office, 101 Wesbrook Hall.

No instructor is authorized to accept cancellation of any registration.

The effective date of cancellation will be the day on which the cancellation is received in the Extension Classes office, regardless of the date of the student's last attendance. (Cancellations by mail are effective the date of postmark or the date received by FAX or through campus mail.) It is important, therefore, that whenever students stop attending a class, they should officially cancel by filling out the appropriate forms at the Extension Classes office.

Students who simply stop attending class (and do not officially cancel) are considered registered in the course and may receive an "F."

Do not stop payment of a check to cancel your registration. You must cancel officially by mail or in person. A check handling fee of \$20 is charged for any stop order payment and you are responsible for any tuition due up to the point you officially cancel (based on refund schedule below). A hold will be placed on your records until these fees are paid. Contact the Income Management office in 138 Wesbrook Hall (624-6354) before you stop payment of a check for any reason.

Veterans—Any veteran registered under the G.I. Bill must notify the Extension Veterans Office, 101 Wesbrook Hall, and

the V.A. Certifications office in 150 Williamson Hall, when canceling a class. This is essential when it changes the credit load.

Financial Aid—Students receiving financial aid through the University of Minnesota should check with a financial aid adviser before canceling classes. Changes in credit load affect eligibility. Refunds may revert to the financial aid office, or students may be obligated for repayment.

Refunds for Summer Classes

Students who wish to cancel a class or classes must do so officially, either in person or by writing to the Department of Extension Classes. See cancellation information above for important deadlines and procedures.

When students cancel classes, they may be eligible for: (1) a full refund under the conditions outlined in item 1 below; (2) a refund of tuition and any course or special fees (less any late fees) under the conditions outlined in item 2 below; or (3) a refund of part of the tuition and any course fees and special fees after the class has begun, provided that the student cancels and requests a refund within the time limits outlined in the refund percentage schedules given below in items 3, 4, and 5.

Students on financial aid should check with an adviser before requesting refunds.

Students who wish to cancel a class and add another class should read the section on how to cancel/add classes, page 117.

1. Full refund of all tuition and course-related fees will be made when a class is canceled by Extension Classes or when the hour or day of the class is changed by Extension Classes after a student has registered in it.

Rules, Regulations and Policies

2. A refund of all tuition and course-related fees will be made:

A. When a student cancels before the first class meeting in any summer or special term.

B. When a student is ill or hospitalized and, in the opinion of a doctor, is unable to continue for medical reasons. The doctor's signed statement on the doctor's letterhead is required and must be submitted by the end of the term.

C. To any student who has been recalled to or enlisted in military service upon presentation of military orders, provided the student would not be entitled to an appropriate grade at such time.

D. When, in the opinion of the instructor, the student does not have the necessary prerequisites, or the student has already had the equivalent material in another course. Students seeking refunds under these conditions must:

a. Ask the instructor for a note explaining that the student does not have the necessary prerequisites. Bring in the note, a fee statement, and a completed cancellation form to 101 Westbrook Hall **or** submit the note and a cancellation letter by mail. It is the student's responsibility to obtain the note and submit all documents at one time before the third class meeting.

b. Present a transcript noting equivalent course(s), along with a fee statement and completed cancellation form, in person at 101 Westbrook Hall or by mail. Documents must be submitted at the same time before the third class meeting.

3 Refunds of tuition and course-related fees for classes that meet the **first 5-week term** will be made according to the following cancellation schedule.

*For students who have enrolled **previously** at the University:*

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	June 23
50 percent	June 30
25 percent	July 7

No refunds after July 7 for first 5-week term classes for students who have taken University Classes previously.

*For students registering at the University for the **first time**:*

<u>Amount of refund</u>	<u>Cancellation date</u>
100 percent	June 23
70 percent	June 30
50 percent	July 7

No refunds after July 7 for first 5-week term classes for new students.

4. Refunds of tuition and course-related fees for classes that meet the **10-week term (includes 7-week term classes)** will be made according to the following cancellation schedule.

*For students who have registered at the University **previously**:*

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	June 23
50 percent	July 3
25 percent	July 22

No refunds after July 22 for 10-week term classes for students who have taken University classes previously.

*For students registering at the University for the **first time**:*

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	June 23
70 percent	July 3
50 percent	July 22

No refunds after July 22 for 10-week term classes for new students.

5. Refunds of tuition and course-related fees for classes that meet the **second 5-week term** will be made according to the following cancellation schedule.

For students who have registered at the University previously:

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	July 30
50 percent	Aug. 6
25 percent	Aug. 13

No refunds after August 13 for second 5-week term classes for students who have taken University classes previously.

For students registering at the University for the first time:

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	July 30
70 percent	Aug. 6
50 percent	Aug. 13

No refunds after August 13 for second-5-week term classes for new students.

6. Refunds for special term courses are prorated in relation to the length of the term.
7. Late fees are not refundable in any case.

Cancellations by U.S. mail are effective the date of postmark. Cancellations by FAX or campus mail are effective the date received.

Refunds for tuition payments made by check or cash are paid by check only and are mailed to the student. Credit card refunds are credited to credit card accounts. For financial aid tuition payments and third-party payments billed through STARS, refunds are made to STARS. A minimum of three weeks is required for processing a refund.

Access to Student Educational Records

In accordance with regents' policy on access to student records, information about you generally may not be released to a third party without your permission. Exceptions under the law include state and federal educational and financial aid institutions. The policy also permits you to review your educational records and to challenge the contents of those records. You also have the right to file a complaint with the U.S. Department of Education.

Some student information—name, address, electronic (e-mail) address, telephone number, dates of enrollment and enrollment status (full-time, part-time, not enrolled, withdrawn and date of withdrawal), major, adviser, college and class, academic awards and honors received, and in the event of your graduation, the degree received—are matters of public record or directory information. University officials and departments may provide this information in answer to inquiries without requiring authorization from you. You may prevent release of public information outside the University. The records office on your campus can provide you with information on the procedures necessary to do so.

Students are advised that disciplinary action will be taken if academic records are forged or altered.

The regents' policy, including a directory of student records, is available for review in 150 Williamson Hall, Minneapolis, and at records offices on other campuses of the University. Questions may be directed to the Office of the Registrar, 150 Williamson Hall, (612) 625-5333.

General Information

Faculty

The teaching staff in Extension Classes consists primarily of University of Minnesota faculty. In some instances, faculty members from other educational institutions and specialists in professional and business fields have been selected to teach courses. All Extension Classes instructors are approved by the academic departments through which classes are offered.

Additional staff—Faculty other than those listed under each department may be assigned to teach certain courses.

Funding Extension Classes

While the state legislature has begun to help fund University College, the Extension Classes program—including instructional, administrative and staff costs, and related costs—is supported mainly by students' tuition. Therefore, depending on overall enrollments, program adjustments are sometimes necessary, as is the cancellation of classes in which enrollment is low.

Campus Services

Recreational Sports Facilities and Programs

An Extension student may use the Recreational Sports facilities and programs by purchasing a membership at one of the Recreational Sports offices only: University Recreation Center (Minneapolis campus) or 104 St. Paul Gymnasium (St. Paul). Call 625-6800 or 625-8283 for the latest fee amounts. Proof of registration is necessary for purchase. Bring your U Card if you have one (U Cards are available at the Rec Center). Call ahead to check office hours.

Students must present the proof of membership each time they use the facilities. The recreation facilities include swimming pools, fitness centers, handball/racquetball courts, squash courts, tennis courts, gymnasiums (basketball, volleyball, badminton) sports fields, etc. Aerobics classes and fitness programs also are available for an additional fee.

Services for Students with Disabilities

The University provides services to ensure access for students with physical, sensory, systemic, learning, and psychiatric disabilities. Disability Services (DS) provides direct assistance such as information, referral, support, and academic accommodations for enrolled and prospective students, as well as consultation and training with faculty and staff to promote access to programs and activities. The DS office will also assist disabled students in obtaining services from other University and community resources. University policy calls for accommodations to be made on an individualized and flexible basis, therefore it is the responsibility of students to seek assistance and to make their needs known. For more information, contact Disability Services, 30 Nicholson Hall, 626-1333 (voice/TTY).

Health Service

(Telephone 625-8400)

Students registered for at least one Extension class and spouses of students may use Boynton Health Service on a fee-for-service basis. Students who are admitted to a University of Minnesota degree or certificate program and who are registered for at least 6 credits have the additional option of enrolling in Boynton's Extended Coverage Benefits Plan. This prepaid plan entitles you to receive most outpatient services at no additional charge and to receive others at reduced cost.

The cost of the Summer Extended Coverage Benefits Plan is: 10-week term plus 4-week interim, \$139; first 5-week term, \$46; second 5-week term plus 4-week interim, \$93; interim only, \$46 (available to new international students only).

Extended coverage may be purchased at the cashier's window, third floor, Boynton Health Service between 8 a.m. and 6 p.m., Mondays, and between 8 a.m. and 4:30 p.m., Tuesday through Friday. Be sure to bring your Extension fee statement and proof that you are in a certificate or degree program (your day-school transcript or a letter from your adviser). Coverage must be purchased by June 25 for first summer term or August 1 for second summer term.

Students who pay the extended coverage fee receive general medical care and laboratory tests at Boynton at no charge. Partial charges are made for routine physical exams, annual dental exams, and some specialty care. Prescription drugs, eye glasses, and dental care are available at Boynton's normal low prices. Copayments are charged for mental health services, including crisis counseling; remaining charges must be submitted to the student's insurance company. X-rays and minor surgical procedures are also charged to students for collection from their insurance. Any balance after insurance is covered by the extended coverage fee with no out-of-pocket expense to the student. Students who do not have insurance must pay full charges for these services.

The Extended Coverage Benefits Plan does not cover hospitalization or surgery. Extension students who have paid for extended coverage may be eligible to purchase the University-sponsored hospitalization insurance offered to day-school students.

To obtain brochures describing both of these plans in greater detail, stop by 101 Westbrook Hall or call 625-3333 and ask that the Boynton Health Service literature be sent to you. For specific questions

General Information

concerning the Extended Coverage Benefits Plan, call 624-6985. For insurance eligibility and coverage questions, call 624-0627.

Boynton Health Service is located on the East Bank of the Minneapolis campus at 410 Church St. S.E. Hours are 8 a.m. to 6 p.m. on Monday and 8 a.m. to 4:30 p.m. on Tuesday through Friday. Boynton is closed on University holidays.

When the Health Service is closed, emergency care is available at the Emergency Department of Fairview-University Medical Center. Charges for after-hours emergency care are your responsibility. Students covered by private insurance or through a health maintenance organization should use the emergency facility specified by their plan. Students covered by the University-sponsored health insurance plan will be charged a \$25 co-payment per visit. Students with no hospitalization insurance are responsible for all charges incurred in an emergency room.

Libraries

The University of Minnesota—Twin Cities Libraries contain more than 5 million catalogued volumes. In addition to books and periodicals, the libraries have substantial holdings of government documents, manuscripts, archives, computer files, and audio-visual materials.

Humanities and social science collections: The main humanities and social sciences collections are in Wilson Library on the West Bank and include American studies, anthropology, art, business, film, geography, history, language, literature, philosophy, political science, religion, sociology, and women's studies. The collections for education, library science, and psychology are found in Walter Library on the East Bank. The

collections in design, vocational education, family social science, rural sociology, and textiles are found in the St. Paul Central Library on the St. Paul campus.

Science collections: The main science and technology collection, including chemistry, engineering, geology, and physics is housed in the Science and Engineering Library in Walter Library. The health science collections, including allied health, dentistry, medicine, mortuary science, nursing, pharmacy, and public health are in the Bio-Medical Library in Diehl Hall on the East Bank. The agricultural and biological sciences collections are found in the St. Paul Central Library on the St. Paul campus.

Many *subject collections* are located in other buildings, as well. Call for locations on materials in horticulture, architecture, entomology, mathematics, forestry, plant pathology, law, journalism, maps, music, government publications, biochemistry, natural history, East Asia, South Asia, and the Middle East. Special collections exist for children's literature, social welfare history, and other areas.

Reference and research service points are located in major library buildings: for humanities and social sciences, Wilson Library, first floor; for education and psychology, Walter Library, first floor; for business, Wilson Library, second floor; for government publications, Wilson Library, basement; for bio-medical subjects, Diehl Hall, third floor; for science and technology, Walter Library, second floor; and on the ground floor of the St. Paul Campus Central Library.

Terminals to access LUMINA, the University Libraries on-line catalog, are available in all of the libraries. It is also possible to dial in to LUMINA using a personal computer and modem. To con-

nect to LUMINA within the Twin Cities area code 612, dial 625-6009 for up to 2400 baud or 624-7539 for 9600 baud. Long distance within the state of Minnesota, dial 1-800-LUMINA. For hardware or software problems, call 626-7676.

Specialized services of University Libraries include in-depth reference service, library instruction, computer-literature searching, inter-library borrowing, and photocopying.

University College/Continuing Education and Extension students are encouraged to use library services. A current University ID card or current fee statement (the student's confirmation of registration) is needed to borrow materials. For library hours, call 624-4552.

E-mail accounts

Access to the University's electronic mail and the Internet are part of University College's commitment to provide effective communication for Twin Cities UC students taking University credit courses. This service is provided at no charge to Extension students for the term they are actively enrolled in University credit courses (limit of 30 hours a month). Along with e-mail, this access will enable students to access other information resources on the campus-wide network and Internet.

Please note: It takes up to a week (7 full days) from the date of registration to create a new e-mail account on the University's system. *No exceptions.*

Students can access the University's Central Mail System's Maroon and Gold mail servers from any of the University's computer facilities or from their own microcomputer from home. Individual account holders on the University's e-mail system can store up to 2MB (megabytes) of information free of charge. E-mail accounts are frozen, however, until stu-

dents activate their accounts by entering certain personal information on line. Student who have used their e-mail accounts will not have to activate them again.

Please note that access to the University e-mail system is a privilege and not an entitlement. Computing services, including e-mail, may not be used for illegal or unauthorized purposes including but not limited to, harassment; destruction of or damage to equipment, software, or data belonging to others; unauthorized copying of copyrighted materials; or the disruption or unauthorized monitoring of electronic communications. Using e-mail to participate in illegal acts is itself illegal and may be subject to prosecution by state and federal authorities. E-mail accounts and passwords are assigned to individuals and are not to be shared. Use of e-mail for private business purposes unrelated to the University is unauthorized. Any misuse of the system may result in loss of privileges.

Activating a Student E-Mail Account. Student e-mail account names follow this format: the first four letters of the student's last name followed by a unique four-digit number (example: abcd1234@gold.tc.umn.edu). For security reasons, all new student accounts are "frozen;" accounts cannot be used until students activate them. To activate accounts, students need to go to any computer facility on campus (see list below) and access the *Student E-Mail Account Initiation* section of Internet Gopher. For most students, activating their accounts will be easy and quick by simply following the five initiation steps described below. *Students should remember to use the Tab Key to go from one data field to another. they should use the Enter key when they have completed entering information.*

General Information

1. Student I.D. Number. Extension students who are new to the University must be assigned a student I.D. number. This process takes 24 hours. Students may call (612) 625-3333 or write Extension Classes at 101 Westbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455, to find out their student I.D. number. Students who call must be prepared to provide specific identification data for security purposes.

2. Social Security Number. The e-mail system requires that students enter their social security numbers for verification purposes only. In order to prevent someone else from accessing accounts, this information must be entered. The social security number will not be used for any other purpose or be accessible to any other system.

3. Date of Birth. An example birth date is included in the initiation form. Replace the example with your own date of birth in the same format as the example: MM/DD/YYYY.

4. Passwords. All passwords must follow the following rules: (1) password must be 6 to 8 characters long; (2) password must be a combination of letters and numbers; and (3) password must not be identical to user's name.

Students need to press the Enter key when they have completed entering all the required information. Once the system has verified that the information is accurate, it will respond with a message.

Locating Campus Computer Facilities. There are computer facilities in many locations around campus that are available to Extension students. *The hours for*

these facilities vary, so students are urged to call the location before going there.

West Bank: Blegen Hall 455 (626-7778)

East Bank: Elliott Hall 121 (624-0866); Folwell Hall 14 (625-4896); Lind Hall 26 (626-0856); and Walter Library (626-1899).

St. Paul: Classroom Office Building 135 (624-9226); Classroom Office Building 17 (626-1252); McNeal Hall 305 (624-5367); and Central Library B50 (624-3269).

Accessing E-Mail from Off-Campus Location. To access an e-mail account from off campus, such as their home, students need a microcomputer or terminal, a modem, and communications software. Computer and Information Services supports ProComm, TinCan, and Telnet communications software and POPmail. Copies of these programs are available in 152 Shepherd Labs on the east bank (telephone 626-4276). You must bring in new diskettes to exchange for the ones you will be given with the software loaded on them.

You also may purchase the diskettes at the Extension Classes registration office for \$7, a service arranged for Extension students by the UC Student Board.

Central Modem Pool numbers for access to all University systems are included with instructions that accompany the diskettes.

Accessing the E-Mail Help Line: 626-7676. The Help Line is staffed Monday through Friday from 9 a.m. to 10 p.m. Walk-in help is also available during open hours in the campus public computer facilities. *If students find they cannot activate their accounts, they should contact the E-Mail Help Line for assistance.*

Locker Rentals, Lost and Found, and Other Services

Lockers are available for rental each quarter. Deposit cards must be purchased on the campus you are renting a locker: Coffman Union Service Center, East Bank, and Skyway Service Center, West Bank.

Locker rental offices are at the Service Center in Coffman Union for the East Bank and the Skyway Service Center for West Bank. For more information, call the East Bank main office at 625-0981.

For lost and found assistance, check the lost and found office in the building where you may have lost items. For additional help and information, contact one of the main lost and found offices: Coffman Union Information Desk, 625-4177 for East Bank; 100 West Bank Union Skyway, 624-6338, for West Bank.

The Coffman Union Service Center, on the ground level of Coffman Union, in addition to locker rental, offers several other services: postal services; MCTO monthly pass and commuter ticket sales; discount movie passes; miscellaneous entertainment coupons and tickets, and campus bus information.

Parking Facilities

Parking is available for Extension students at various facilities on campus. Parking fees vary depending on the facility location. For more parking information, including disability parking, call 626-7275. Call 625-0357 to request parking maps.

Motorist Assistance Program (M.A.P.): Telephone 626-7275—*Hours:* 7 a.m. to midnight, Monday through Thursday, and 7 a.m. to 10 p.m. on Friday. University students, employees, and visitors on the

Twin Cities campus *in University parking facilities only* may use M.A.P. free of charge. Services include unlocking vehicles, jump starts, changing flat tires, and referrals to a service station for problems M.A.P. cannot handle. Service is currently not available on weekends or official University holidays.

Special events: When special events occur on campus, such as concerts and athletic games, some facilities charge a special event rate. Extension students may park in Lot 33 on the East Bank after 4:30 p.m. on special event nights at the regular daily rate by obtaining a free hang tag permit from the Extension Classes registration office, 101 Wesbrook Hall.

Police Services

The University of Minnesota Police Department provides law enforcement services to students, staff, faculty, and visitors of the Twin Cities campus community. The department provides proactive patrol, emergency response, and criminal investigation and is available to assist you while here on campus.

The department embraces a philosophy of community involvement and focus and has developed strategic priorities of prevention, interaction, and community involvement in response to dealing with growing concerns of personal security for us all. The department employs 40 sworn officers to provide police protection and over 100 part-time student security monitors who provide building security and escort services.

You are urged to help them help you. Be aware, report crimes, take advantage of information and prevention programs by the department, and by all means that can be achieved together—protect yourself.

General Information

Contact the University Police in the following ways:

University of Minnesota Police Department
100 Transportation and Safety Bldg.
511 Washington Ave. S.E.

Police/Fire Emergency 9-1-1
(also all Blue Light kiosks on campus)

Non-emergency 624-3550

Escorts (24 hours) 624-WALK

Police Administration 624-2575

World Wide Web <http://www.umn.edu/umpolice>

Entertainment stars such as Bette Midler, Patrick Stewart, Victor Borge, and Red Skelton, a host of musical headliners including Lyle Lovett, Yanni, Sting, Aretha Franklin, as well as major touring productions add a dynamic complement to the Northrop stage.

For information/schedule, please call 624-2345

Arts and Entertainment

Northrop Auditorium furthers the University's educational and public service mission with the belief that the arts are fundamental to an educated and enlightened society. It presents the region's premier series of dance companies—ballet, contemporary, and ethnic from all over the world. With the Walker Art Center, Northrop offers Discover, a series emphasizing new directions in performance by artists who are extending the boundaries of music, theatre, dance, and other disciplines. The Northrop Jazz Series inaugurated in September 1993, complements the Twin Cities' thriving club jazz scene with larger concert jazz events. Most of these concerts take place at the Ted Mann Concert Hall. Northrop also has a strong holiday tradition with the presentation of an annual Nutcracker, the perfect treat for families. Summer at Northrop features two months of lively, outdoor musical concerts—most free of charge—presented by University Summer Session.

Degrees and Certificates

Below are listed degrees and certificates which can be completed entirely or almost entirely through Extension Classes. For complete information, see page 479 in the 1996-97 Extension Classes Bulletin. For information about admission procedures and degree planning, call UC Counseling, telephone 625-2500, to arrange a day or evening advising appointment.

Degrees

University College Partnership Degrees

Bachelor of Applied Business (B.A.B.)

Bachelor of Information Networking (B.I.N.)

Bachelor of Construction Management (B.C.M.)

Bachelor of Emergency Health Services (B.E.H.S.)

University College (B.A. and B.S.)

The Inter-College Program

Program For Individualized Learning

College of Liberal Arts

Bachelor of Arts (B.A.)

Bachelor of Science (B.S.)

Bachelor of Individualized Studies (B.I.S.)

Carlson School of Management

Bachelor of Science in Business (B.S.B.)

Institute of Technology

Bachelor of Civil Engineering (B.C.E.)

Bachelor of Computer Science (B. Comp. Sci.)

Graduate Degrees

Master of Arts in English (Graduate School)

Master of Liberal Studies (Graduate School and UC/CEE)

Master of Business Taxation (M.B.T.)

Master of Education—Teacher Leadership Program

Master of Education—Youth Development Leadership

Master of Social Work—Weekend Option, Distance Option

Graduate Minor Program in Gerontology

Certificates

Check the list in the 1996-97 Extension Classes Bulletin, page 495.

For free academic advising, telephone 625-2500 or e-mail ceeadv@mail.cee.umn.edu

Campus Buildings

- AmundH, *Amundson Hall*
AkerH, *Akerman Hall*
AlderH, *Alderman Hall (St. Paul)*
AndH, *Anderson Hall (West Bank)*
ApH, *Appleby Hall*
Arch, *Architecture*
ArtB, *Art Building (West Bank)*
BellMus, *Bell Museum of Natural History*
BFAB, *Bierman Field Athletic Building*
BioSci, *Biological Sciences Center (St. Paul)*
BlegH, *Blegen Hall (West Bank)*
BorH, *Borlaug Hall (St. Paul)*
BuH, *Burton Hall*
Career & Cont Educ Bldg, *North Hennepin Comm Coll*
CentLib, *Central Library (St. Paul)*
ChDev, *Child Development*
CrstnL, *Christensen Laboratory Building (St. Paul)*
CivE, *Civil Engineering*
ClaOff, *Classroom Office Building (St. Paul)*
CofH, *Coffey Hall (St. Paul)*
CookeH, *Cooke Hall*
EBCEC, *Earle Brown Continuing Education Center (St. Paul)*
EE/CSci, *Electrical Engineering/Computer Science Building*
EltH, *Elliott Hall*
FergH, *Ferguson Hall (West Bank)*
FolH, *Folwell Hall*
FScN, *Food Science and Nutrition (St. Paul)*
FordH, *Ford Hall*
GNFPF, *Gibson-Nagurski Football Practice Facility*
HckrH, *Haecker Hall (St. Paul)*
HodsonH, *Hodson Hall (St. Paul)*
HHHCtr, *Humphrey Center (West Bank)*
Inver Hills, *Inver Hills Community College, 2500 E. 80th Street, Inver Grove Heights, MN 55076; telephone (612) 450-8500*
JonesH, *Jones Hall*
KoltH, *Kolthoff Hall*
Law, *Law Building (West Bank)*
LindH, *Lind Hall*
MacP, *MacPhail Center, 1128 LaSalle Ave., downtown Mpls*
Mayo, *Mayo Memorial Hospital*
MechE, *Mechanical Engineering*
McNH, *McNeal Hall (St. Paul)*
MoosT, *Moos Tower*
MurH, *Murphy Hall*
NichH, *Nicholson Hall*
NCCE, *Nolte Center for Continuing Education*
NorrisH, *Norris Hall*
North Hennepin, *North Hennepin Community College*
PeikH, *Peik Hall*
PeikG, *Peik Gymnasium*
Phys, *Physics*
PillsH, *Pillsbury Hall*
RarigC, *Rarig Center (West Bank)*
SciCB, *Science Classroom Building*
ShevH, *Shevlin Hall*
ScottH, *Scott Hall*
SmithH, *Smith Hall*
StCen, *Student Center (St. Paul)*
U-Tech Bldg, *University Technology Center (1313 Fifth St. S.E.)*
VinH, *Vincent Hall*
VetS, *Veterinary Science (St. Paul)*
VoTech, *Vocational-Technical Education (St. Paul)*
WaLib, *Walter Library*
WDH, *Weaver-Densford Hall (formerly Health Sciences Unit F)*
WeismanArt, *Frederick R. Weisman Art Museum*
WullH, *Wulling Hall*

Departments, Course Designators

- ABus, *Applied Business (B.A.B. degree)*
Acct, *Accounting*
Afro, *Afro-American and African Studies*
AmIn, *American Indian Studies*
AmSt, *American Studies*
ANE, *Ancient Near Eastern*
Anth, *Anthropology*
Arab, *Arabic*
Arch, *Architecture*
Art, *Art (formerly Studio Arts)*
ArtH, *Art History*
Biol, *Biology*
BFin, *Finance*
BA, *Business Administration*
BGS, *Business, Government, and Society*
BLaw, *Business Law*
Chic, *Chicano Studies*
CPsy, *Child Psychology*
ClCv, *Classical Civilization*
Clas, *Classics*
CSch, *Compleat Scholar*
CSW, *Compleat Scholar Weekends*
Comp, *English Composition*
CDis, *Communication Disorders*
CSci, *Computer Science*
CSSL, *Cultural Studies and Comparative Literature*
Dnce, *Dance*
DHA, *Design, Housing, and Apparel*
EAS, *East Asian Studies*
Econ, *Economics*
EPsy, *Educational Psychology*
Engl, *English (language and literature)*
EngW, *English (creative and professional writing)*
ESL, *English as a Second Language*
FSoS, *Family Social Science*
FScN, *Food Science and Nutrition*
Fren, *French*
FrIt, *French and Italian*
GC, *General College*
Ger, *German*
Hist, *History*
Hum, *Humanities*
IEOR, *Industrial Engineering/Operations Research*
IR, *Industrial Relations*
IDSc, *Information and Decision Sciences*
ID, *Interdepartmental Study*
InAr, *Interdisciplinary Archaeological Studies*
IntR, *International Relations*
JwSt, *Jewish Studies*
Jour, *Journalism and Mass Communication*
Kin, *Kinesiology*
LA, *Landscape Architecture*
Lat, *Latin*
LAS, *Latin American Studies*
LAsk, *Learning and Academic Skills*
LS, *Liberal Studies*
Ling, *Linguistics*
Mgmt, *Management*
Mktg, *Marketing*
Math, *Mathematics*
ME, *Mechanical Engineering*
MELC, *Middle Eastern Languages and Cultures*
Mus, *Music*
OMS, *Operations and Management Science*
Phil, *Philosophy*
PE, *Physical Education*
Phys, *Physics*
PBio, *Plant Biology*
Pol, *Political Science*
PSch, *Practical Scholar*
Psy, *Psychology*
PubH, *Public Health*
RelA, *Religions in Antiquity*
RelS, *Religious Studies*
REX, *Research Explorations*
Rhet, *Rhetoric*
Russ, *Russian*
Scan, *Scandinavian Languages and Literature*
SW, *Social Work*
Soc, *Sociology*
Soil, *Soil Science*
SALC, *South Asian Languages and Cultures*
Span, *Spanish*
Spch, *Speech-Communication*
Stat, *Statistics*
TrIn, *Translation and Interpreting*
WoSt, *Women's Studies*
WCFE, *Work, Community, and Family Education*
YoSt, *Youth Studies (Youth Development and Research)*

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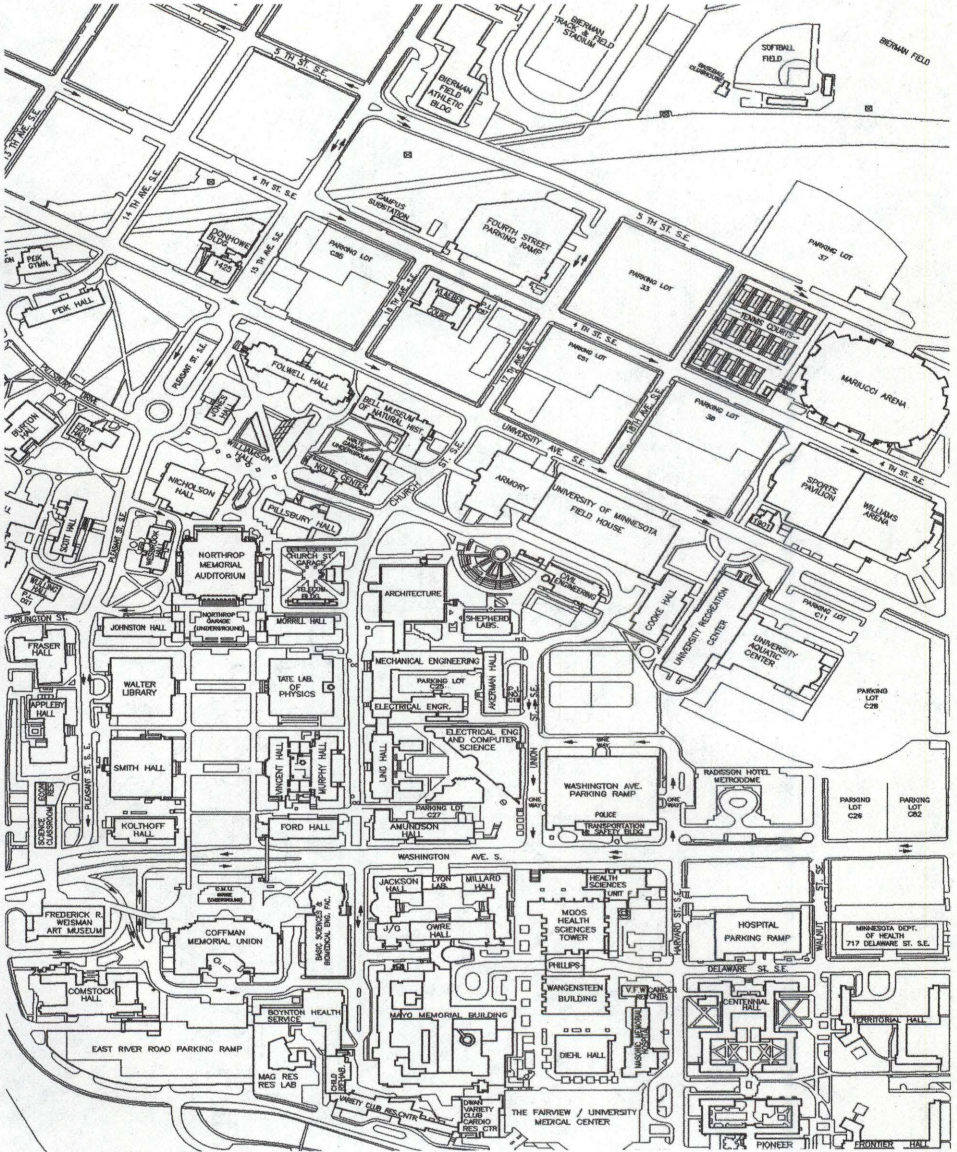
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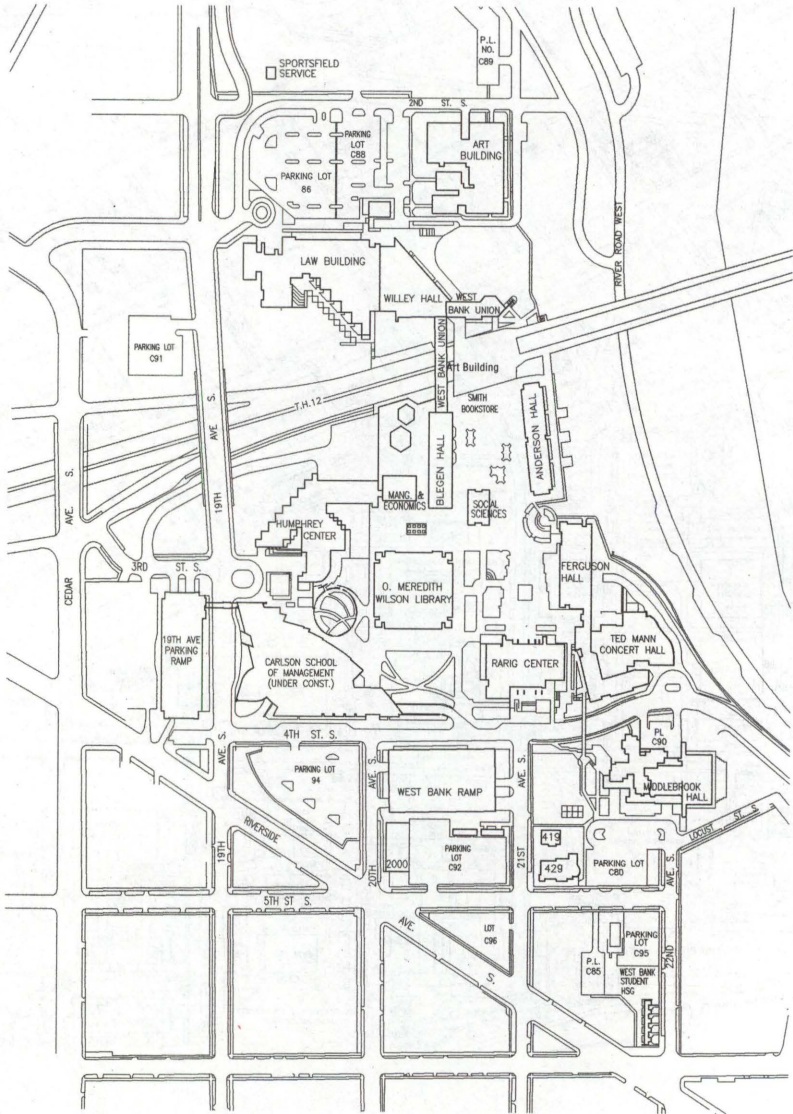
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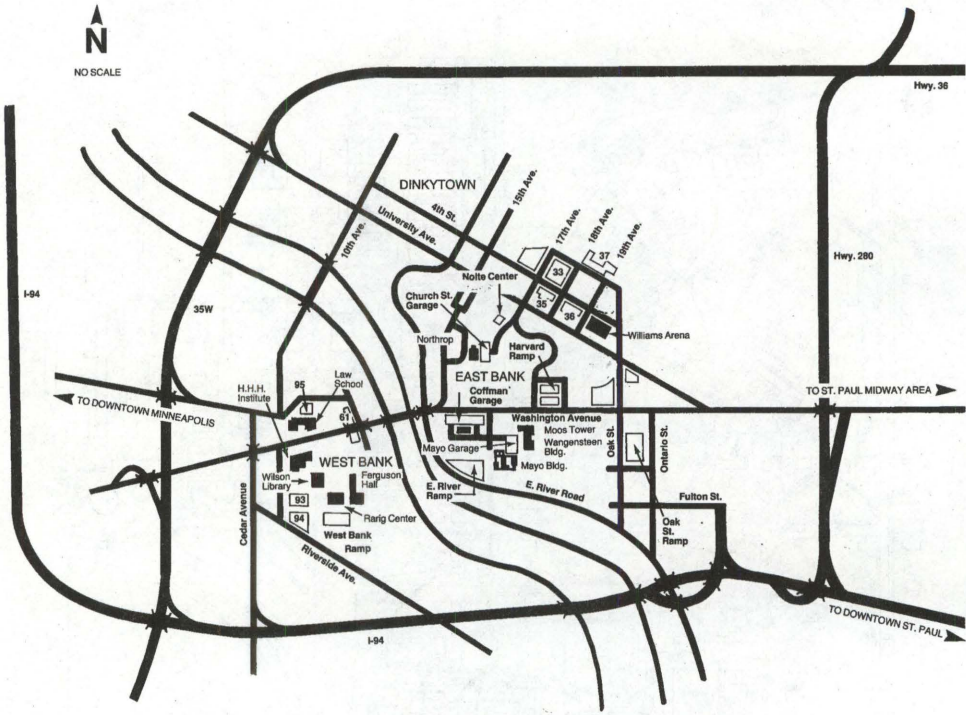
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Minneapolis East Bank Campus Map

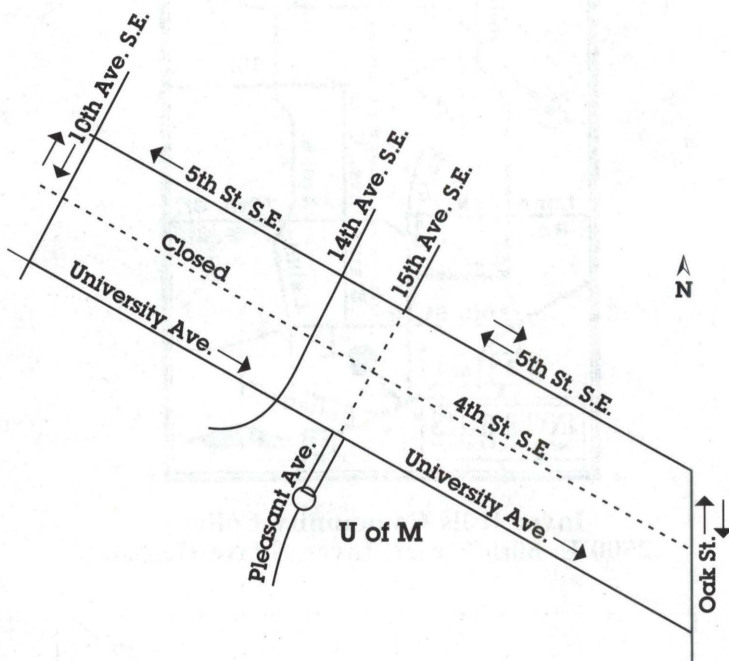


Minneapolis West Bank Campus Map



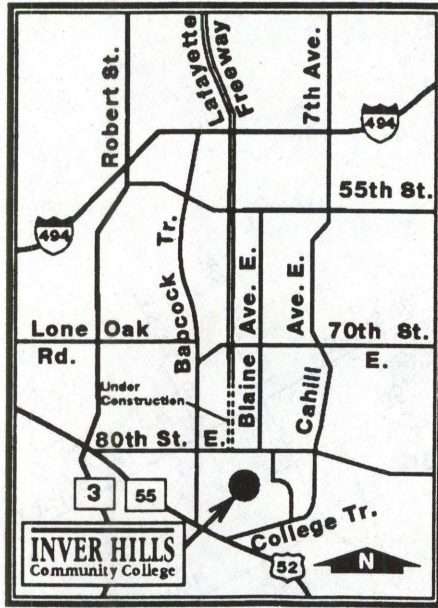
Major Campus Access Routes Map

See Parking Facilities on page 127 in this bulletin for information about parking.

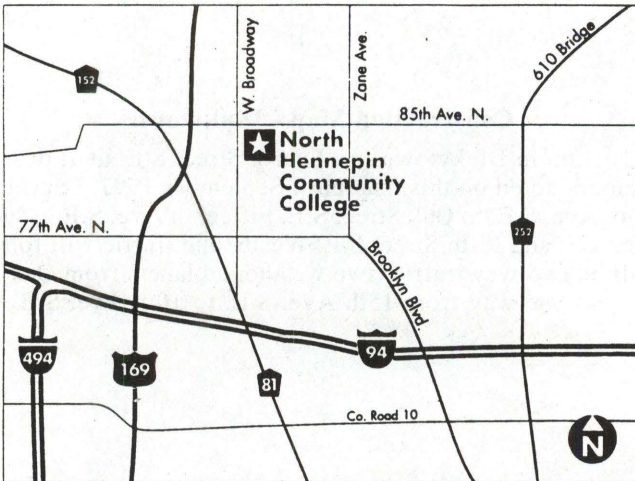


Construction Map—Dinkytown

Bridge reconstruction in Dinkytown (on Fourth Street S.E. at 15th Ave. S.E.) will result in the detours noted on this map until September 1997. Fourth Street S.E. is closed from 10th Ave. S.E. to Oak Street S.E. Fifteenth Ave. S.E. is closed between University Ave. S.E. and Fifth Street S.E. Westbound traffic will follow 5th Street S.E., which will be two-way traffic (two westbound lanes) from Oak Street S.E. to 15th Ave. S.E. and one-way from 15th Ave. S.E. to 10th Ave. S.E.



Inver Hills Community College
2500 E. 80th Street, Inver Grove Heights



North Hennepin Community College
7411 85th Avenue North, Brooklyn Park

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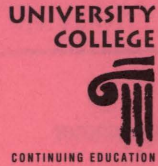
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UNIVERSITY OF MINNESOTA
 Department of Extension Classes
 101 Wesbrook Hall
 77 Pleasant Street S.E.
 Minneapolis, MN 55455

Important:

1. This form may be photocopied if you need additional forms.
2. Please allow a minimum of seven working days to process mail-in, fax, or drop-off registrations.

REGISTRATION FORM

(Please Print)

1. Student Information

*Last Name (below)	*First Name (below)	*MI
*Address:		
*City:	*State:	*Zip:

Social Security Number _____

*U of M I.D. # _____
 (if known)

Date of Birth _____

Home Phone () _____

Work Phone () _____

Information on this form is private data. Items marked by an asterisk (*) are required for identification and to establish your student record. Remaining items, including Social Security Number, are voluntary and are used for positive identification. Failure to provide voluntary information will have no effect on your registration.

Information is shared with the registrar's office, your instructor, and other University offices for uses related to record keeping, affirmative action, and reporting purposes.

2. Confidential Information

The information requested below is voluntary and will be used for summary reports required by federal and state laws and regulations and to support institutional affirmative action efforts. It will not be used as basis for registration or in a discriminatory manner.

support institutional affirmative action efforts. It will not be used as basis for registration or in a discriminatory manner.

Gender: Male Female

Predominant Ethnic Background:

- | | |
|--|---|
| <input type="checkbox"/> Black, non-Hispanic (African American) (01) | <input type="checkbox"/> Hispanic—Puerto Rico, Cuba, other Hispanic (B) |
| <input type="checkbox"/> American Indian, Alaskan Native (02) | <input type="checkbox"/> International Student (05) |
| <input type="checkbox"/> Asian/Pacific Islander (03) | <input type="checkbox"/> White, non-Hispanic (Caucasian) (06) |
| <input type="checkbox"/> Hispanic—Chicano/Mexican-American (A) | |

Please list your highest level of education.

- | | |
|---|---|
| <input type="checkbox"/> Some high school (01) | <input type="checkbox"/> Four-year college degree (06) |
| <input type="checkbox"/> High school graduate (02) | <input type="checkbox"/> Some graduate school (07) |
| <input type="checkbox"/> Vocational/technical training (03) | <input type="checkbox"/> Graduate or professional degree (08) |
| <input type="checkbox"/> Some college (04) | <input type="checkbox"/> Other (please specify) (09) _____ |
| <input type="checkbox"/> Two-year associate degree/certificate (05) | |

3. Student Status (1996-97)

- Check this box if you are admitted to a degree program at the University of Minnesota and classified as a NONRESIDENT, NONRECIPROCITY student. If so, you must pay nonresident tuition.
- Check this box if you are admitted to a degree program at the University of Minnesota and classified as a RECIPROCITY STUDENT. If so, please check the appropriate box below and note the information about tuition rates that you pay.
- Wisconsin. Call the Extension Classes registration office for the nonresident rate, (612) 625-3333.
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 - South Dakota. Pay the resident tuition rate listed with the course.
 - Manitoba. Pay the resident tuition rate listed with the course.
 - Midwest Student Exchange Program (MSEP). Pay 150 percent of the resident tuition rate plus any course/special fees.



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(Please Print)

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*City:	*State:	*Zip:

Social Security Number _____

*U of M I.D. # _____
(if known)

Date of Birth _____

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Work Phone () _____

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|--|---|
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 - South Dakota. Pay the resident tuition rate listed with the course.
 - Manitoba. Pay the resident tuition rate listed with the course.
 - Midwest Student Exchange Program (MSEP). Pay 150 percent of the resident tuition rate plus any course/special fees.

1997 Summer Calendar

APRIL 1997

<i>S</i>	<i>M</i>	<i>T</i>	<i>W</i>	<i>T</i>	<i>F</i>	<i>S</i>
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MAY 1997

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JUNE 1997

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JULY 1997

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AUGUST 1997

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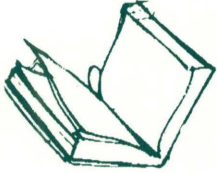
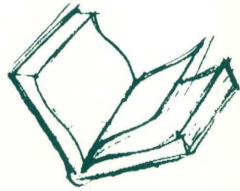
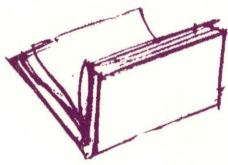
SEPTEMBER 1997

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21	22	23	24	25	26	27
28	29	30				

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Minneapolis, MN 55455

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LIBRARY-COLL & PRESERVATIONS
10 WA LIB
MINNEAPOLIS



First Five-Week Term
June 17-July 22

Ten-Week Term
June 17 to August 27

Second Five-Week Term
July 24 to August 27

Extension Classes
University of Minnesota
780 Wesbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455

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