

UNIVERSITY OF MINNESOTA



summer
EVENING
extension
CLASSES

1995 Summer Evening Extension Classes

Term Dates:

First 5-week term: June 12 to July 18
Ten-week term: June 12 to August 23
Second 5-week term: July 20 to August 23

Registration Dates for all classes:

I. Mail Registration (call 624-2388 for registration forms)

Ten-week term May 1 to June 2
First 5-week term May 1 to June 2
Second 5-week term May 1 to July 7

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

Ten-week term May 11 to June 2
First 5-week term May 11 to June 2
Second 5-week term May 11 to July 7

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

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

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 and non-resident student. In addition, students taking 5xxx-level courses for graduate credit, or 8xxx-level courses, pay a separate graduate credit resident or non-resident rate. Each credit option is listed with each course in this bulletin as applicable. **For complete information, read the section on How to Determine Tuition on page 10.**

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Extension Classes Bulletin

For complete information about Extension Classes, consult the current 1994-95 Extension Classes Bulletin. For a copy, telephone 624-2388. The 1995-96 Bulletin will be available August 1, 1995.

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 Patricia A. Mullen, 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 and General Information:

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

CEE Counseling and Program Advising:

314 Nolte Center
University of Minnesota
315 Pillsbury Drive S.E.
Minneapolis, MN 55455
625-2500

Extension Classes

Continuing Education and Extension
UNIVERSITY OF MINNESOTA

Steven J. Vite, Senior Editor
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When and How to Register

Register by Mail or In Person

These are registration procedures for limited-enrollment classes and nonlimited-enrollment classes.

Read through these procedures carefully before you register! Correct registration is the student's responsibility. If you have questions after reading the information on registration procedures, call 625-3333. Most of the questions students ask are answered on these pages.

Limited-enrollment sections have specified limits on the number of students who will be permitted into the section. These sections are starred. 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. For complete details see the instructions for **Registration by Mail**.

Early registration is recommended even for nonlimited-enrollment classes to allow sufficient time for processing and return of fee statements. In rare cases, it may be necessary to place enrollment limits on nonlimited sections.

General Registration Instructions

1. Use the registration form at the back of this bulletin (call 624-2388 to request additional forms). Forms for veterans benefits certification can be requested at this telephone number also (see the index at the end of this bulletin for page numbers where these services are explained).

Forms and information are also available at registration offices. Regular registration offices are at 101 Westbrook Hall on the Minneapolis campus (east bank) of the University of Minnesota

and at the MacPhail Center in downtown Minneapolis at 1128 LaSalle Avenue.

2. Complete the registration form giving all the requested information.

Each course description in this bulletin provides information necessary in completing the registration form. Courses are listed under departmental or subject heading (alphabetically arranged). Complete the spaces on the form that request information about the course; if there have been any changes to the room, day, or time you will be notified of those changes on the registration confirmation form that is returned to you.

If you do know your University student I.D. number, include that in the space provided.

For information about grade base option, see page 21.

Indication of your ethnic background is voluntary and is used only for reporting purposes.

Nontranscript registrations are those that apply to noncredit students (other than auditors) and certain noncredit courses; they are explained on page 95.

Be sure to complete the enrollment period section giving the appropriate summer term and year. If your course is offered on a special term, fill in the start and end dates in the space provided.

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.

Note: Failure to provide your social security number, birth date, or University I.D. number may lead to identification errors in your records.

- 3. You are not registered until your tuition and fees are paid.** Checks must be for the full amount of the tuition and fees and made payable to the University of Minnesota. Be sure to include special fees, course fees, and late fees, when applicable. (All tuition and fees are due when you register except for students on financial aid or pre-approved third-party billings or admitted day school students using dual registration option.)

Students are urged to pay fees by personal check, money order, or credit card authorization. Change is not always available at in-person registration locations.

If you are classified as a nonresident/non-reciprocity student and are admitted to a degree program, you must pay the nonresident tuition rate given with the course.

- 4. Mail registration dates:** You may register for any *First five-week* or any *Ten-week* summer class **May 1 to June 2**. You may register for any *Second five-week* summer class **May 1 to July 7**.
- 5. In-person registration dates:** You may register for any *First five-week* or any *Ten-week* summer class **May 11 to June 2**. You may register for any *Second five-week* summer class **May 11 to July 7**.
- 6. Last day to register without a late fee:** June 2 for *First five-week* and *Ten-week* classes; July 7 for *Second five-week* classes.

Enrollment is limited in sections marked with a star (★).

Students who complete one course which is part of a two- or three-part sequence are not automatically assured of space in the next course in the sequence. Early registration is the best opportunity to obtain space in these courses.

Registration by Mail (and FAX)

- 1. Follow the dates and steps outlined above in General Registration Instructions.**

- 2. Make out a separate check to pay your tuition and fees for each limited class you register for by mail.** If one check is used to pay for two or more classes and one class is closed, the registrations cannot be processed and must be returned to you. Nonlimited-enrollment class registrations may be paid for by writing one check only. Do not send cash. You may charge tuition and fees on VISA, Discover, or MasterCard, also.

- 3. If there are classes or sections of classes that are acceptable alternatives to your first choice, list those in the space indicated on the registration form.** If your first choice is closed, the registration office will select the first available choice listed and process the registration.

- 4. Mail in your registration forms, alternate choice forms (optional), and tuition check(s) made payable to the University of Minnesota.** (A separate tuition check is required for each limited-enrollment class.) The address is:

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

FAX registration: You may submit registration forms by FAX to the registration office with billing authorized to your VISA, Discover, or MasterCard account. The FAX number is 625-1511. Do not send a duplicate request unless you are certain the first transmission did not arrive. You risk having your credit card account charged twice. If you send a second registration form, mark it "duplicate."

Registrations received in the Extension registration office will be processed on a daily basis beginning with registration dates specified here and continuing through the registration period. Spaces in limited-enrollment classes will be filled daily.

Registrations received during the mail-only registration period will receive priority in processing. However, once in-person registration begins, space in limited-enrollment classes also will be assigned to students who register in person.

Students whose tuition and fees are to be billed to a company, governmental agency (including foreign governments), institution, scholarship, or the military may register by mail. See the section on **Financial Aids and Loans**, pages 13-20.

Students registering with **Regents' Scholarships** should read the section on page 16.

Persons registering with G.I. Bill assistance must include the G. I. Bill Information Sheet with their registration. See the section on **Veterans**, page 17, for further information and instructions.

Checks or money orders for late registrations (postmarked after midnight of the last day of the registration period) must include the late fee specified under **Late Registrations and Additions**. Checks must be for the exact amount of tuition and fees. (Refunds for overpayments will not be made until checks clear banks.)

Students who have not received fee statements within 10 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).

In-Person Registration

1. **Follow the dates and steps outlined above in General Registration Instructions. Office hours are on page 8.**
2. **Bring your completed registration form to a registration office staff member at an Extension registration office during the in-person registration period.** See locations below. Students who register at the Minneapolis campus registration office at 101 Westbrook Hall may check the closed-class board before bringing their registration to the registration clerk.
3. **You must pay the full amount of tuition and fees when you register. You are not registered until your tuition and fees are paid.** Students are urged to pay tuition with a personal check, money order, or by credit card. (Students on financial aid and others who qualify for STARS will have tuition billed.)
4. **Registration Offices (see maps near the end of this bulletin):**

Minneapolis Campus: Extension Classes, 101 Westbrook Hall

Minneapolis (downtown): MacPhail Center, 1128 LaSalle Avenue

All registration offices are closed weekends during the summer.

Classes may close at any time before or during in-person registration. Students

who wait to register in person for limited-enrollment classes may expect to stand in line at registration offices but have no assurance of obtaining space in classes they desire.

Students are urged to register early by mail.

Alternate Choice Classes

Students who are registering by mail for limited-enrollment classes may include acceptable alternative sections or classes in the space indicated on the registration form. If the class the student is trying 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. The reasons for establishing limits on enrollment vary. Normally class limits cannot be exceeded.

No waiting lists are kept in 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 (no late fee through the first week of the term for classes closed before late fees have gone into effect). Starting the second week of the term, late registrations will be assessed the appropriate late fee. Registrations mailed by U.S. mail are effective the date of the postmark. FAX registrations are effective the date received.

Early Registration Permission

Students who are nearing the completion

of their degree or certificate programs at the University and are having difficulty getting registration space in a required course may obtain special permission to register early.

Submit a written request, along with transcripts of all work taken, to CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Drive S.E., Minneapolis, Minnesota 55455. This request must be made at least two weeks prior to the start of mail registration for the term in which the student wishes to register. The student will be notified by mail regarding the action taken on such requests.

Late Registration and Additions

All registrations, whether initial or added, received either in person or by mail (effective the date of the postmark) after the close of the official registration period, will be considered late registrations and each course will be subject to a late fee: \$5 (if accepted) through the first week of classes; \$10 (if accepted) through the second week of classes. Registrations accepted during the third week of any term and thereafter will be subject to a \$20 late fee. A separate late fee applies to each course you are registering for.

After the first week of the term, no registration will be accepted without the written permission of the instructor.

When and How to Register

Registrations are not permitted without Scholastic Committee approval after the following dates:

First 5-week term: July 1
Ten-week term: July 22
Second 5-week term: August 9

Scholastic Committee approval is only granted under unusual circumstances. College guidelines for registration will be

strongly considered for students who are admitted to a degree program at the University of Minnesota. Registrations by mail are effective the date of the postmark.

When scholastic approval is for a past term, tuition and fees will be at rates currently in effect.

There are no late fees for persons registering on the **Persons 62 and Older** plan (see page 29).

Office Hours

Minneapolis Campus Office

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

Through June 9 (Monday through Thursday) 8 a.m.-8 p.m.
Fridays 8 a.m.-4:30 p.m.
May 29 (Holiday) All offices closed
June 12-July 28 (Monday through Thursday): 8 a.m.-6:30 p.m.
Fridays 8 a.m.-4:30 p.m.
July 4 (Holiday) All offices closed
July 31-Aug. 25: Weekdays 8 a.m.-4:30 p.m.

MacPhail Center Office (Downtown Minneapolis)

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

June 5-Sept. 1: (Monday through Friday) 8 a.m.-4:30 p.m.
May 29 (Holiday) All offices closed
July 4 (Holiday) All offices closed

CEE 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

NOTE: All offices are closed weekends.

Registration Options

Day Classes Registration

Self-registration

In-person Registration

Locations:

202 Fraser, Minneapolis campus

130 Coffey Hall, St. Paul campus

Dual Registration (for admitted students only)

202 Fraser Hall

130 Coffey Hall

101 Westbrook

See *Class Schedule* or *Summer Session Bulletin* for registration dates and times

Note: Certain students need to register in their program office (e.g., MBA, Medical School, Law School, Dentistry, Veterinary Medicine).

Payment

All tuition and fees are billed through Student Accounts Receivable.

Extension Classes Registration

Mail Registration

Fax Registration

In-person Registration

Locations:

Westbrook Hall, Minneapolis campus

MacPhail, downtown Minneapolis

St. Paul Skyway, downtown St. Paul

Dual Registration (for admitted students only)

101 Westbrook

202 Fraser Hall

130 Coffey Hall

See *Extension Classes Bulletin* for dates and times of registration.

Note: Certain students need to register in their program office (e.g., MBT, Neighborhood Programs, ESL, PSEO).

Payment

Due at time of registration*

Cash

Check/money order

Credit card (Visa, MasterCard, Discover)

**Exception:* Students eligible for financial aid, students whose tuition and fees are being billed to an agency, and students using dual registration will have their tuition billed through Student Accounts Receivable.

Enrollment Information

Anyone with a desire to learn may register for Extension classes. There are no admis-

sion 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 20). Stu-

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 non-resident, non-reciprocity student, you will need to pay either undergraduate or graduate non-resident tuition rates. On the registration form you will be asked to check the box that describes your student status.

- I have never been admitted to a degree program at the University of Minnesota.** (Pay *Resident* tuition rates.)
- 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.)
- I have been admitted to a degree program at the University of Minnesota and am classified as a non-resident, non-reciprocity student.** (Pay *Non-resident* tuition rates.)

Note—Student status is subject to compliance review.

Graduate Credit Tuition Rates

If you are registering for a 5xxx-level course and want graduate credit, note that four graduate tuition rates are listed. The rate you pay will depend on whether you intend to use the course in a University of Minnesota Graduate School program and whether you are classified as a resident or non-resident of the state of Minnesota. To determine residency status, review the information above (which also appears on the registration form). The four graduate tuition rates are defined below.

Resident graduate credit (\$107 per credit): Pay this rate if you are classified as a resident of Minnesota and *are not* using the course in a University of Minnesota Graduate School program.

Non-resident graduate credit (\$214 per credit): Pay this rate if you are classified as a non-resident of Minnesota and *are not* using the course in a University of Minnesota Graduate School program.

Resident Graduate School credit (\$183.75 per credit): Pay this rate if you are classified as a resident of Minnesota and *are* using the course in a University of Minnesota Graduate School program.

Non-resident Graduate School credit (\$404.25 per credit): Pay this rate if you are classified as a non-resident of Minnesota and *are* using the course in a University of Minnesota Graduate School program.

dents wishing to register for graduate credit, refer to page 24.

Day school students who wish to register in Extension classes are urged to consult first with their college office. Day school students must pay Extension classes tuition to attend Extension 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 Wesbrook, 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 clear with their college before registering for 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 Continuing Education and Extension (CEE) are governed by the University of Minnesota Student Conduct Code. Students who engage in behavior that disrupts the learn-

ing environment for others may be subject to disciplinary action under the code. In addition, CEE may require students responsible for such behavior to discontinue course activities and may cancel their registration.

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 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 29.

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 regis-

Enrollment Information

ter, 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 will receive a refund by mail. 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.

Students registering for graduate credit in 5xxx-level Extension classes now must pay either the current graduate credit tuition rate or the Graduate School tuition rate. See the section on Graduate Credit, page 24.

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 received notification from their banks that a check has been returned to Extension Classes.

No arrangements for partial payment can be made. Students in need of financial assistance should see *Financial Aids and Loans*, below.

Nonresident and resident rates—Students who have been admitted to a degree program at the University of Minnesota and who are classified as a nonresident, nonreciprocity student will pay nonresident tuition rates. If you have never been admitted to a degree program at the University of Minnesota, you pay resident tuition rates.

Students are not registered until their tuition and fees are paid.

You will receive a receipted confirmation when you register. Retain this document; it is your proof of enrollment. If you do not have a student I.D. card, it serves as official identification as an Extension student; it must be presented as proof of registration

in order to vote in student elections, obtain books from University libraries, or purchase student athletic and other tickets or student services.

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 Westbrook 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 Westbrook 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 *When and How to Register*. 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 aids and loans

Academic Progress

For students not held to other college, department, or program academic standards, CEE will determine scholastic standing by evaluating satisfactory progress with the following criteria:

Completion of two-thirds (66%) of total credits for the year (first summer session through spring quarter) with grades of A, B, C, or S. Grades of D, N, I, and F are not considered satisfactory. Grades of W, V, or X are not included in this calculation.

The formula for determining satisfactory progress is as follows: (Total credits grades A, B, C, or S) divided by (Total credits graded A, B, C, D, F, S, N, or I) equals 66%.

Grades in repeated courses and noncredit remedial courses are considered in total credits.

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.

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.

Registration with financial aid

Important new information: In order to receive Federal Pell Grant, Minnesota State Grant, loans, and College Work-Study for summer 1995, you must register for at least one credit in Summer Session I (the first five-week term or the ten-week term in Extension Classes).

Common requirements for financial aid—Because most financial aid programs 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 (216 attempted credits for a bachelor's degree); 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.

Registering with financial aid—If the Office of Student Financial Aid (OSFA) has notified you that you are eligible for grants or loans or you have received an eligible 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 your 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.

Enrollment Information

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. If you are receiving a Minnesota State Grant, admission is not required. Contact CEE Counseling at 314 Nolte Center (625-2500) if you have questions about the criteria for payment through STARS.

Follow these steps:

1. Fill out registration forms following the instructions outlined in this bulletin. To insure accurate record keeping, be sure to include your social security number or University I.D. number, if you have one, in the space provided on the registration form.
2. Indicate on the registration form that the method of payment is financial aid. Your record will be checked for eligibility.
3. If you have completed all eligibility requirements, your registration will be processed and your financial aid will be applied to tuition and fees. (You will be billed for, or refunded, any difference between the amount of your award and the tuition and fees that are due.)

Students registering through STARS should register during regular registration periods to avoid late fees.

When eligibility is determined, Extension registration staff will coordinate with the Student Accounts Receivable System (STARS) so your financial aid will be credited to your account.

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 35. 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 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 1994-95 academic year or took fewer than 12 credits in one or more quarters of 1994-95. Minimum enrollment for Pell Grant is one credit. If you have not previously submitted a 1994-95 Free Application for Federal Student Aid (FAFSA), you need to submit an application to the Iowa City processing center by May 1, 1995. After your FAFSA has been processed you will receive a Student Aid Report, which must be submitted to the Office of Student Financial Aid (OSFA) no later than June 16, 1995. In addition, you need to submit a Summer Financial Aid Application to OSFA

not later than June 16, 1995. For additional information, contact OSFA, 210 Fraser Hall (624-1665) or CEE Counseling, 314 Nolte Center (625-2500).

Minnesota State Grant—You may be eligible if you are an undergraduate who did not attend one or more quarters of the 1994-95 school year or took less than 12 credits in one or more quarters of 1994-95. You must register for a minimum of 3 credits during the summer. Admission is not required. If you have not previously submitted a 1994-95 Free Application for Federal Student Aid, your application needs to be received at the Iowa City processing center by May 1, 1995. In addition, you need to submit a Summer Financial Aid Application to the Office of Student Financial Aid (OFSA) no later than June 16, 1995. For additional information, contact OFSA, 210 Fraser Hall (624-1665) or CEE Counseling, 314 Nolte Center (625-2500).

CEE Tuition Assistance Program—You may be eligible if you are an undergraduate, part-time, CEE-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 4 for the first five-week and ten-week terms and until June 30 for the second five-week term. For additional information and a CEE Grants and Scholarships Application, contact CEE 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, 120 Fraser Hall. Job openings for graduate students are posted at the

Graduate Assistant Office, Suite 317, 1313 Fifth Street S.E.

Summer Loan Programs—To be considered for summer 1995 loans, you need to be admitted to a University of Minnesota degree or certificate program and you must submit a 1994-95 Free Application for Federal Student Aid (FAFSA) to the Iowa City processing center by May 1, 1995, if you have not already done so. In addition, you need to submit a Summer Financial Aid Application to the Office of Student Financial Aid (OFSA) no later than June 16, 1995. Borrowing from summer 1994 through spring quarter 1995 may reduce loan eligibility for summer 1995. For additional information, contact OSFA, 210 Fraser Hall (624-1664).

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.

Division of Rehabilitation Services—Some financial aid help may be available through the Minnesota Division of Rehabilitation Services (DRS). For information, contact Donna Johnson, Disability Services, DRS liaison, 252 Nicholson Hall, 626-8035 (voice), 624-5088 (TTY).

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.,

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#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 in Johnston Hall (626-1333).

Special funds—Students with disability-related needs may contact Donna Johnson, Disability Services, 252 Nicholson Hall, 626-8035 (voice) or 624-5088 (TTY), to discuss other possible financial aid opportunities and types of assistance. (Special funds are limited.)

Veterans with service-connected disabilities may be eligible for vocational rehabilitation services through the United States Department of Veterans Affairs. Write or call the U.S. Department of Veterans Affairs, Regional Office and Information Center, Federal Building, Fort Snelling, St. Paul, MN 55111 (726-1454 or 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 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 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 Career Transition Program (telephone 627-4353).

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 course.

Regents' Scholarship applications are available through your department (University Stores number GS 92353). For registration information, see the **When and How To Register** section of this bulletin. For classes without enrollment limits, registrations with Regents' Scholarship forms will be accepted during the regular registration periods. For classes with limited enrollment, Regents' Scholarships will not be processed until the second week of mail registration. **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.**

(Regents' Scholarships are not accepted for many Extension Classes/CEE programs, including Compleat and Practical Scholar courses, Management Advancement Program Seminars, and Research Explorations. In addition, offerings by other departments may be excluded.)

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 **Non-credit Course Offerings** section of this bulletin. You must submit a letter from your department head verifying employment when you register. For limited-enrollment classes, you may register starting the second week of mail 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, 411 Johnston Hall, 626-1310.

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.

Tuition Reciprocity—Residents of neighboring states may be eligible for resident tuition rates or for reduced nonresident tuition rates. For additional information, contact Residence Classification and Reciprocity, 240 Williamson Hall (625-2006).

For additional information—Contact CEE 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 should 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 CEE 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.

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 program 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.

Entitlement is 36 months of full-time training or the equivalent part-time. As of Oct. 1, 1994, 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 726-1454.

Tuition and fees—Veterans must pay at the time of registration. They will be reimbursed later or paid a monthly allowance.

Registration—Before registering, please read **When and How to Register**, page 4. Each time a veteran registers for Extension classes and wishes certification to the Veterans Administration, a V.A. enrollment sheet must be completed. Please complete only one enrollment sheet for each registration period.

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 classes to their registration should also notify the V.A. Certification Office in 150 Williamson Hall (and complete registration for the additional classes). Those who do not wish to add classes to their registration should notify the V.A. Certifications Office that registration is completed and certification to the Veterans Administration should be made. **In either case, if the veteran does not notify the certifications office in Williamson Hall, no certification will be made to the Veterans Administration.**

Submit all forms at the same time: a completed V.A. enrollment sheet (listing the number of credits the student is registering for that term); 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 Classes G.I.
information 624-3341
- Extension/Day School V.A.
certification 625-8076
- Veterans Administration 726-1454

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 9
- Ten-week term—May 9
- Second 5-week term—June 16

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 CEE 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

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retroactive to the beginning date of the term, resulting in an overpayment.

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 Wesbrook 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 35.

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

For students not held to other college, department, or program academic standards, CEE will determine scholastic standing by

evaluating satisfactory progress with the following criteria:

Completion of two-thirds (66 percent) of total credits for the year (first summer session through spring quarter) with grades of A,B,C, or S. Grades of D,N,I, and F are not considered satisfactory. Grades of W,V, or X are not included in this calculation.

The formula for determining satisfactory progress is as follows: (Total credits grades A,B,C, or S) divided by (Total credits graded A,B,C,D,F,S,N, or I) equals 66%.

Grades in repeated courses and noncredit remedial courses are considered in total credits.

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.

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 Wesbrook 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 19. 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 28).

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 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.

Grade Reports, Transcripts

Two types of service are available to obtain official transcripts: regular service and rush service. (Official transcripts are certified and signed by the University Registrar.) Regular service is available for \$3 a copy. Processing time for regular service is two to three workdays; after processing, your copies will be mailed to the places you have specified. Rush service on your official transcript requests is available for \$9 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.

Official transcripts can be requested by mail. Requests can also be dropped off at the locations below. No telephone or fax requests are accepted. Requests should include your full name, signature, social security number, date of birth, dates of enrollment, and complete address(es) for mailing the transcripts. Send your requests to the Certifications Unit, 150 Williamson Hall, 231 Pillsbury Drive S.E., Minneapolis, MN 55455. Your request must include a check or money order payable to the University of Minnesota for \$3 or \$9 a transcript.

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 now 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 Extension Classes Registration Office, 101 Westbrook Hall, or at the Student Relations Unit, 150 Williamson Hall (625-5333).

Official quarterly reports of students' grades are released only by the University's Office of the Registrar and cannot be furnished by the Extension offices. Grades for each term are mailed from the Office of the Registrar. You should allow four to six weeks from the close of a term for your grades to arrive in the mail. Students who need grades sooner may leave self-addressed stamped postcards with their instructors, who will mail grades to them immediately following the end of the term.

Student Identification Card (I.D.)

A University identification number is assigned to your undergraduate transcript when you register for Extension classes. Extension students admitted to a college are eligible for a University I.D. card and are encouraged to obtain one. Students not admitted to a college may purchase an I.D. card for \$5. To purchase a card, obtain an authorization for \$5 from the Bursar's Office and bring it to the Office of the Registrar where your student status will be verified.

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 a card. A paid fee statement and picture I.D. also can be used to request student services instead of the I.D. card.

The Office of the Registrar in 150 Williamson Hall is open 9 a.m. to 5:30 p.m. on Monday, and 8 a.m. to 4 p.m. on Tuesday through Friday, and has some extended hours at the beginning of each term. Call 625-9357 for details. For more information, contact the CEE Counseling Office, 625-2500.

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 considered to meet the college residence requirements of most colleges of the University.

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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 501 in the 1994-95 *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 Continuing Education and Extension 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 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455 (625-3014).

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 offi-

cially admitted to the University of Minnesota Graduate School.

Note that the inclusion of graduate-level courses on a CEE 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 CEE 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 CEE.

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 CEE registration. Students who wish to apply CEE course work toward a Master of Science degree in Food Science should consult with their Director of Graduate Study concerning the number of credits which may be transferred from CEE.

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 CEE 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 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.

Students in a Graduate School program leading to a doctoral degree may transfer no more than 12 credits from CEE 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 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.*

CEE Graduate-Level Registration and Fees—A student who wishes to receive graduate-level credit for a CEE course which is available for graduate credit must indicate this on the CEE 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 nonresident tuition rates.

By indicating registration for graduate credit on the registration form, you notify 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 CEE registration from undergraduate to graduate credit (or the reverse), students must write or go to the Extension Classes Registration Office, 101 Westbrook 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. The Graduate School does not permit such change after the last day of instruction. Contact a CEE Scholastic Committee representative at 625-2500 with questions.

A regularly enrolled day school student who concurrently takes day school courses and CEE courses must register separately in day school and in CEE and must pay both day school and CEE fees.

Recent policy changes—Students who register for 8000-level course work in CEE who want graduate credit must pay Graduate School tuition rates. Students who register for 5000-level course work in CEE who want graduate credit must pay either the

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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 CEE 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 CEE. 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.

Use of CEE 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 CEE 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 CEE or the Graduate School of the University of Minnesota.

Continuing Education Unit

The continuing education unit (CEU) is a nationally recognized unit of measurement

awarded to participants in a qualifying noncredit continuing education program. One CEU is ten contact hours of participation under responsible sponsorship, capable direction, and qualified instruction. CEUs can become part of your permanent University record. For an information packet, contact the Department of Professional Development and Conference Services, 214 Nolte Center, on the Minneapolis campus; telephone 625-6616.

Credits Without Class Attendance

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, several options are available. Students may obtain information on these alternatives by calling the Continuing Education and CEE Counseling Department, 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 permis-

sion form and for further assistance in making "Y" registration, consult the CEE 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 the CEE Counseling Department, 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 the CEE Counseling Department, 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. Contact the CEE Counseling Department, 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 the CEE Counseling Department, 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 projects which go beyond the scope of any

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single department or college of the University. These student-initiated projects are interdisciplinary in nature and/or are done with faculty from departments that do not have an undergraduate independent study course for nonmajors. Students will be asked to select an appropriate faculty monitor and to complete the UC 3075 directed study contract prior to registering. Students may take 3 to 15 credits of UC 3075. Further information may be obtained from the Inter-College Program Office of University College, 107 Armory, 624-2004.

Department of Independent Study

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 some courses. Courses marked in this Bulletin with (IS) following course titles are also taught through Independent Study. Independent Study courses can be used toward fulfilling distribution requirements in most University undergraduate degree programs, and all Extension certificate programs accept such credits. Credits earned through the Department of Independent Study 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 card may be used for payment. The *Independent Study Bulletin* listing 350 courses and general information is available from the Department of Independent Study, University of Minnesota, 45 Westbrook Hall, 77 Pleasant Street S.E., Minneapolis, MN 55455; (612) 624-0000 or 800-234-6564; FAX (612) 626-7900.

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 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 Westbrook 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. **Credit CEW courses being offered during the summer of 1995 are in the following departments:** History, Psychology, and Women's Studies.

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 or noncredit 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 CEE Counseling Office, 625-2500.

Persons 62 and Older

Minnesota state law allows persons 62 and older to register in credit classes at reduced cost (credit registration) or no cost (noncredit 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 hour plus any fees. Or these courses may be taken free for no credit. For classes with limited-enrollment, registrations will be accepted starting the second week of mail registration.

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. For nonlimited-enrollment classes, students may register during regular registration periods by mail or in person.

Compleat and Practical Scholar noncredit classes—Persons 62 and older may register in most noncredit Compleat Scholar and Practical Scholar classes and receive a 10-percent discount on tuition. 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. For classes with limited enrollment, registrations will be accepted starting the second week of mail registration. For nonlimited-enrollment classes, 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 121.

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. List of course offerings and required books are in the bookstores.

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 19 for the first 5-week term and June 26 for the 10-week term; July 26 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 12-15:	8:30 a.m. to 6 p.m.
June 16:	8:30 a.m. to 5 p.m.
July 20, 24, 25, 26:	8:30 a.m. to 6 p.m.
July 21:	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 Harold Smith West Bank campus 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.

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Fee Statements

When you register, you will receive a confirmation/fee statement. Save this document, it is proof of enrollment.

Students are urged to save and carry their fee statements, which are required as identification for a number of University activities and services.

A duplicate fee statement may be obtained at 101 Wesbrook Hall in the event the first one is lost or illegible.

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.

Class Attendance

Students (including auditors) are responsible for attending classes in which they are registered. (See also *Credits Without Class Attendance*, page 26.) A student who cannot attend a class session should arrange with the instructor—in advance, if possible—to make up the work.

How To Cancel/Add Classes

You must officially cancel in person or by mail or FAX. 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 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.

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 16.

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 21); (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 Westbrook 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 the CEE Counseling Department, 314 Nolte Center (625-2500).

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.

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 only during your terms of enrollment. To do so, you must notify the records office on your campus.

Students are advised that disciplinary action will be taken if academic records are forged or altered.

You are notified annually of your right to review your educational records. 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.

E-mail accounts

Access to the University's electronic mail and the Internet are part of Continuing

Education and Extension's (CEE) commitment to provide effective communication for Twin Cities CEE 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. 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 micro-computer 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 students 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.*

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 free in 152 Shepherd Labs on the east bank (telephone 626-4276).

Central Modem Pool numbers for access to all University systems): 626-1200 (for 1200 bps modems); 626-2400 (for 2400 bps modems); and 626-9600 (for 9600 and higher bps modems).

Accessing the E-Mail Help Line: 626-7676. The Help Line is staffed Monday through Friday from 9 a.m. to 10 p.m.

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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.*

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 cancelling officially, students will, if eligible, receive a refund (see **Refunds**, page 35), 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).

Cancellations are not permitted without Scholastic Committee approval after the following dates:

First 5-week term:	July 1
10-week term:	July 22
Second 5-week term:	August 9

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 date received 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) 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.

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.

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 31.

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.
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 Wesbrook 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 fourth class meeting.

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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 fourth 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:

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	June 17
50 percent	June 24

No refunds after June 24 for first 5-week term classes.

4. Refunds of tuition and course-related fees for classes that meet the **10-week term** will be made according to the following cancellation schedule:

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	June 17
75 percent	June 24
50 percent	July 1

No refunds after July 1 for 10-week term classes.

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:

<u>Amount of refund</u>	<u>Cancellation Deadline</u>
100 percent	July 27
50 percent	August 3

No refunds after August 3 for second 5-week term classes.

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.

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 24.

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 4.
†	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.
(IS)	Course also available through Department of Extension Independent Study (by correspondence).
●	A joint Day/Extension class
Δ	Consent of unit offering course is required.
cr	Credit
CEU	Continuing Education Unit (10 contact hours of noncredit learning); see page 26.
Qtr	Quarter
Sem	Semester
Spec	Special Term
S/N	Satisfactory/No credit grading system. See page 21.
A/F	Letter grading system. See page 21.
Prereq	Prerequisite. See page 20.
Lect	Lecture
Rec	Recitation
Sec	Section

Credit Course Offerings

(Noncredit courses are listed beginning on page 95. See Buildings and Maps, pages 128 and 133-138; Course Numbering, page 37)

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 12-Aug. 1, although for registration purposes the 10-week term designator is used below and on the registration form. There are two exceptions: Acct 5135 is a seven-week course offered June 14-July 31; and Acct 5160 is a 10-week course offered June 19-21. This format applies to both day and evening classes.

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 \$383.50; Non-resident \$1081.75.

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 215

Ten wk, ★Sec 51, TTh, 6-9, BlegH 215

Acct 3001 INTRODUCTION TO MANAGEMENT ACCOUNTING. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40. (IS)

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. **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 150

Acct 3101 INTERMEDIATE FINANCIAL REPORTING. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40. Relationships between economic events and their representation in financial statements aimed at external users. Income determination, asset valuation, capitalization of corporations. **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 210

Acct 5102 ADVANCED REPORTING I. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40; Resident Graduate credit \$444; Non-resident Graduate credit \$872; Resident Graduate School credit \$751; Non-resident Graduate School credit \$1633.

Relationship between complex events such as defined benefit pension plans, leases, and intercorporate investments and the reflection of these events in financial statements. **Must be taken A/F.** (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, TTh, 6-8:30, BlegH 220

Acct 5125 AUDITING PRINCIPLES AND PROCEDURES. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40; Resident Graduate credit \$444; Non-resident Graduate credit \$872; Resident Graduate School credit \$751; Non-resident Graduate School credit \$1633.

Auditing financial information systems. Independent audit; general audit that includes internal auditing and other forms. **Must be taken A/F.** (Prereq 5101 or 3101, 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 125

Acct 5135 INCOME TAX ACCOUNTING. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40; Resident Graduate credit \$444; Non-resident Graduate credit \$872; Resident Graduate School credit \$751; Non-resident Graduate School credit \$1633. (IS)

Principles of federal income taxation of various taxpaying entities. **Must be taken A/F.** *Course meets June 14 through July 31.* (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 240

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Acct 5160 FINANCIAL STATEMENT ANALYSIS. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40; Resident Graduate credit \$444; Non-resident Graduate credit \$872; Resident Graduate School credit \$751; Non-resident Graduate School credit \$1633.

Interpreting and analyzing financial statements and schedules for investors and other users. **Must be taken A/F.** *Course meets June 19 through August 21.* (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, M, 5:30-9, BlegH 330

Acct 5180 ADVANCED FINANCIAL REPORTING II. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40; Resident Graduate credit \$444; Non-resident Graduate credit \$872; Resident Graduate School credit \$751; Non-resident Graduate School credit \$1633.

Partnerships, business combinations, consolidated financial statements, foreign currency transactions and translations, and reporting issues in governmental accounting. *The final exam will be held outside of normally scheduled class hours on Friday, July 28, 1995, from 5:30 to 8 p.m.* **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 230

Adult Education (AdEd)

(325 Vocational and Technical Education: 625-6372)

College of Education

(Department of Vocational and Technical Education)

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

No AdEd Extension classes offered summer 1995

Afro-American and African Studies (Afro)

(808 Social Science Tower: 624-9847)

College of Liberal Arts

Textbooks for most Afro and Arab 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
Caesar Farah, Professor
Gayle Foreman, Lecturer
Aggrey J. Otieno, Teaching Specialist
Charles A. Pike, Assistant Professor

Afro 1011 INTRODUCTION TO AFRO-AMERICAN STUDIES. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Materials and methods of Afro-American studies; topics such as the African background, the evolution of black society and popular culture, comparative race relations, black feminism and societal change, and economic development theories. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, Th, 4:15-7, BlegH 335, Brewer

Afro 3001 INTRODUCTION TO WEST AFRICAN HISTORY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Until 1800. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, TTh, 4:15-7, AndH 230, Coifman

Afro 3432 HISTORY OF AFRICA: 1800 TO PRESENT. 4 credits, \$1432, §Hist 1432, 3432, tuition*: Resident \$308; Non-resident \$893.20.

See course description for Afro 1432. (No prereq. Meets concurrently with Hist 1432, 3432)

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

Afro 3514 AFRICAN-ARABIC LITERATURE IN TRANSLATION. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Continental African literature in Arabic from different countries: Algeria, Egypt, Libya, Mauritania, Morocco, Sudan, Tunisia, and Western Sahara. Various genres represented: the novel, the short story, poetry, and drama. Major writers: Abd-al-Hayy, Abd-al-Sabur, Barrada, Binis, Al-Fayturi, al-Hakim, Mahfouz, El-Saadawi, Salih, Shukri, and Wattar. African Arabic oral literature will act as a backdrop. Emphasis on tenth century. Texts discussed in cultural and historical context. Theoretical and critical essays. No knowledge of Arabic required. All readings in English. (No prereq. Limited to 30)

First 5 wk, ★Sec 50, MW, 4:15-7, BlegH 255, AshShareef

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Afro 3601 INTRODUCTION TO AFRICAN LITERATURE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

Oral and written African literature of the 19th and 20th centuries. All readings in English. (No prereq. Limited to 25)

First 5 wk, ★Sec 50, TTh, 6:15-8:50, BlegH 115, Pike

Afro 3910 INTRODUCTION TO AFRICAN POLITICS AND GOVERNMENT. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Politics and government in sub-Saharan African states. Importance of the past for understanding the present political, social, and economic relationships of African politics. Addresses the key institutions and behavior in their social and cultural settings; class, ethnic structure, parties, elections, source and nature of ideologies, economic and social policies. (No prereq. Limited to 30)

Second 5 wk, ★Sec 50, TTh, 4:15-7, BlegH 260, Otieno

Afro 3910 TOPICS IN AFRO-AMERICAN/AFRICAN STUDIES: THE AFRICAN-AMERICAN CHILD: A Comprehensive Approach. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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)

Second 5 wk, Sec 51, TTh, 6-8:30, BlegH 240, Foreman

Arabic (Arab)

Arab 3213 QU'RAN AS LITERATURE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Texts and commentaries in translation. Knowledge of Arabic not required. (No prereq. Limited to 30)

Second 5 wk, ★Sec 50, MW, 4:15-7, BlegH 245, AshShareef

Arab 3505 SURVEY OF THE MIDDLE EAST. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Lands and peoples of the Middle East, historical evolution of Middle East civilizations and societies, the status of Middle East countries in world affairs. (No prereq. Limited to 35)

Second 5 wk, ★Sec 50, W, 4:15-7, BlegH 260

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)

Pat Amo, Instructor

David Born, Professor of American Studies

David O. Born, Professor

Jerry Buckanaga, Instructor

Eric Buffalohead, Instructor

(See also CSch 0224, Archaeology at the Head of Lake Pepin—A Look at the Red Wing Site; and REX 0707, Language and Literacy Development of American Indian First-Grade Students)

AmIn 1771 INTRODUCTION TO AMERICAN INDIAN STUDIES. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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)

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

AmIn 3116 AMERICAN INDIAN LITERATURE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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

First 5 wk, ★Sec 50, TTh, 6-8:30, NichH 122, Amo

AmIn 3211 AMERICAN INDIAN PHILOSOPHIES. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Comparative studies of American Indian philosophies, tribal world views, and sources of ecological consciousness. (No prereq. Limited to 35)

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

AmIn 5990 DIRECTED STUDIES: INTRODUCTION TO AMERICAN INDIAN POW-WOWS. 2 credits, tuition*: Resident \$154; Non-resident \$446.60; Resident Graduate credit \$214; Non-resident Graduate credit \$428; Resident Graduate School credit \$367.50; Non-resident Graduate School credit \$808.50.

Have you ever wondered what a pow-wow is? Have you ever eaten an Indian taco? Do you know the etiquette associated with an honoring song? If not, you might want to consider this course which will provide an overview of the history, music, ceremony, and regalia associated with pow-wows in the upper midwest and northern plains. In addition to making classroom presentations, the instructor will accompany students as they visit and participate in regional pow-wows. (No prereq. Qualified students may register for graduate credit at the University of Minnesota)

Second 5 wk, Sec 50, W, 6-8:30, ScottH 4, Born

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)

William H. Agee, Lecturer

AmSt 1001 AMERICAN CULTURES. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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 140

AmSt 1002 AMERICAN CULTURES. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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 210

(See also CSch 0115, Rivers Merging: Cross-Cultural Conversations with Asian American and Other Artists)

AmSt 3111 CREATIVE AMERICANS AND THEIR WORLDS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

A study of the ways in which the works of selected American writers, painters, architects, filmmakers, and other artists can illuminate tensions and conflicts which have arisen out of a dual commitment by Americans to values located in nature and the natural landscape, on the one hand, and, on the other, to values associated with technological progress and ever-higher levels of affluence. "The myth of the garden" in literature and painting. Significance of paintings of urban-technological landscapes. The development of the skyscraper and of the "Chicago School" of modern architecture. The work and ideas of Frank Lloyd Wright. Contemporary issues relating to technology and the environment considered from the perspectives provided by the artists and writers we have studied. Readings of varying lengths from Crevecoeur, Emerson, Thoreau, Mark Twain, Frank Norris, and Tom Wolfe. (No prereq. Limited to 40)

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

AmSt 3113 AMERICAN CULTURAL DIVERSITY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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, HHCtr 25

Ancient Near Eastern Studies (ANE); Hebrew (Hebr); Jewish Studies (JwSt)

(330 Folwell Hall: 625-5353)

College of Liberal Arts

(Department of Classical and Near Eastern Studies)

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

Stephen Feinstein, Visiting Professor
Jonathan Paradise, Associate Professor
Tzvee Zahavy, Professor

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Ancient Near Eastern Studies

ANE 1001 THE BIBLE: NARRATIVE TEXTS. 4 credits, §3001, §ReIS3201, tuition*: Resident \$294; Non-resident \$852.60.

Survey of literary and historical narrative texts from: Pentateuch, Joshua, Judges, Samuel, and Kings. Reading of extensive selections from Bible and secondary materials discussing literary background of the texts. (No prereq. Meets concurrently with 3001, ReIS3201)

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

ANE 3001 THE BIBLE: NARRATIVE TEXTS. 4 credits, §1001, §ReIS3201, tuition*: Resident \$308; Non-resident \$893.20.

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

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

Jewish Studies

JwSt 1034 INTRODUCTION TO JUDAISM. 4 credits, §3034, §ReIS 1034, 3034, tuition*: Resident \$294; Non-resident \$852.60.

Concepts, movements, and institutions in the development of classical Judaism, as manifested in the literature and festivals of the Jewish people from Second Commonwealth times to the present. (No prereq. Meets concurrently with 3034, ReIS 1034, 3034)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 240, Zahavy

JwSt 3034 INTRODUCTION TO JUDAISM. 4 credits, §1034, §ReIS 1034, 3034, tuition*: Resident \$308; Non-resident \$893.20. (IS)

See course description for JwSt 1034. (No prereq. Meets concurrently with 1034, ReIS 1034, 3034)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 240, Zahavy

JwSt 3521 THE HOLOCAUST. 4 credits, §ReIS 3541, tuition*: Resident \$308; Non-resident \$893.20. (IS)

Nazi destruction of Jewish life in Europe, 1933-45. Historical, social background of European Jewish communities. Anti-Semitism and Nazism. Ghettos under Nazi rule; social and cultural organization, government. Nazi terror and destruction; Jewish resistance; historical consequences. (No prereq. Meets concurrently with ReIS 3541)

Second 5 wk, Sec 50, TTh, 6:20-8:50, FolH 104, Feinstein

Ancient Studies (AnSt)

(2051/2 Folwell Hall: 625-2503)

College of Liberal Arts

No AnSt Extension classes offered summer 1995

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)

Kevin Johnston, Instructor

Anth 1101 HUMAN ORIGINS. 5 credits, §1001, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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)

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

(See also CSch 0225, Human Origins: An Anthropological Quest)

Anth 1102 UNDERSTANDING CULTURES. 5 credits, §1002, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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

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

Anth 3960 ANTHROPOLOGY PROSEMINAR: MESOAMERICAN CIVILIZATIONS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Organization and evolution of four Mesoamerican civilizations—Maya, Zapotec, Mixtec, and Aztec—as revealed by archaeological and textual sources. (No prereq. Meets concurrently with 5910. A joint Day/Extension class)

First 5 wk, Sec 50, TTh, 1-3:30, FordH 115, Johnston

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Anth 5910 TOPICS IN ANTHROPOLOGY: MESOAMERICAN CIVILIZATIONS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617. See course description for Anth 3960. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. A joint Day/Extension class. Meets concurrently with 3960) First 5 wk, **Sec 50**, TTh, 1-3:30, FordH 115, Johnston

Arabic

(See Afro-American and African Studies)

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
- Dennis Grebner, Professor
- Arnold Lucke, Lecturer
- Andrzej Piotrowski, Assistant Professor
- Stephen Weeks, Associate Professor

Noncredit Workshops

Arch 0013 EXPLORING ARCHITECTURE: A CAREER DISCOVERY WORKSHOP. No credit, tuition*: \$220.50.

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) Spec Term, Sec 50, MTWThF, 6:30-9:30, July 17-21, July 24-28, Arch 40, Carlsen. *No late fee through July 15.*

Arch 0014 CONSTRUCTION PROCESS: A JOB SITE VISITATION SEMINAR. No credit, tuition*: \$147.

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 5-Sept 6, Arch 50, Lucke. *No late fee through June 29.*

Credit Courses

Arch 3311 DRAWING FOR DESIGN. 4 credits, \$LA 3311, tuition* (includes \$25 course fee): Resident \$371; Non-resident \$1028.40.

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 15)

First 5 wk, **★Sec 50**, TTh, 5-8:30, Arch 30, Grebner

Arch 5351 TOPICS IN ARCHITECTURE: AUTO CAD I. 4 credits, tuition* (includes \$20 course fee): Resident \$366; Non-resident \$1023.40.

Basic concepts, tools, and techniques of computer-aided drawing. Introduction to AutoCAD Release 12 for Macintosh. 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 13)

First 5 wk, **★Sec 50**, TTh, 6-9:30, Arch 140, Arch Computer Lab

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Arch 5352 TOPICS IN ARCHITECTURE:

AUTO CAD II. 4 credits, tuition* (includes \$20 course fee): Resident \$366; Non-resident \$1023.40. Intermediate and advanced computer-aided drawing using AutoCAD Release 12 for Macintosh. 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 13)

Second 5 wk, ★Sec 50, TTh, 6-9:30, Arch 140, Arch Computer Lab

Arch 5970 DIRECTED STUDY. Credits arranged. Each credit: Resident \$86.50; Non-resident \$250.85; Resident Graduate credit \$107; Non-resident Graduate credit \$214; Resident Graduate School credit \$183.75; Non-resident Graduate School credit \$404.25.

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. Stephen Weeks, 110 Architecture, University of Minnesota, Minneapolis, MN 55455. Telephone 624-2832.* (Prereq written #. Qualified students may register for graduate credit at the University of Minnesota)

Area Studies Programs

(225 Social Sciences: 624-8543)

College of Liberal Arts

Textbooks for most courses offered through Area Studies Programs on the East Bank campus are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000); courses offered on the West Bank campus are at the Harold D. Smith Bookstore (625-3000); and those offered on the St. Paul campus are at Books Underground (624-9200)

Jeffrey Broadbent, Assistant Professor of Sociology

Byron Marshall, Professor of History

East Asian Studies (EAS)

EAS 1463 INTRODUCTION TO EAST ASIA IN MODERN TIMES. 4 credits, §Hist 1463, 3463, tuition*: Resident \$294; Non-resident \$852.60.

Decline of Asian Empires; European and American imperialism; Asian responses; nationalism; social revolution, reintegration, modernization in China, Japan, Vietnam, Korea; retreat of European and American empires. (No prereq. Meets concurrently with Hist 1463, 3463)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 155

EAS 3471 20TH-CENTURY JAPAN. 4 credits, §Hist 3471, tuition*: Resident \$308; Non-resident \$893.20.

World War I and Japan's emergence as an industrial society and world power in the 1920s; rise of militarism, World War II in the Pacific; political reform, economic resurgence, and cultural change in the postwar era. (No prereq. Meets concurrently with Hist 3471, 5471)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 250, Marshall

EAS 3481 MODERN JAPANESE SOCIETY. 4 credits, §Soc 3481, tuition*: Resident \$308; Non-resident \$893.20.

Japanese social institutions including family, education, business and labor relations, government, and the status of women. How they differ from the West and have contributed to Japanese economic success. (Prereq 1001 or #. Meets concurrently with Soc 3481)

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 155, Broadbent

Latin American Studies (LAS)

LAS 3403 SURVEY OF LATIN AMERICAN HISTORY: 1929 TO PRESENT. 4 credits, §Hist 1403, 3403, tuition*: Resident \$308; Non-resident \$893.20.

Contradictions of modern societies: economic expansion, dependency, population growth and the social crisis, democratic and authoritarian politics. (No prereq. Meets concurrently with Hist 1403, 3403)

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

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
Kim Downing, Lecturer
Curtis Hoard, Professor
Tom Lane, Associate Professor
Susan Lucey, Associate Professor
Alison Morse, Lecturer
Malcom Myers, Professor Emeritus
Michael Rivard, Lecturer

For information about the Split Rock Arts Program, see page 47.

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 Westbrook 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 \$5 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 \$324; Non-resident \$882.60.

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, MW, 6-9:45, ArtB 141

Second 5 wk, ★Sec 51, TTh, 6-9:45, ArtB 160, Bethke

Ten wk, ★Sec 52, T, 6-9:45, ArtB 150

ArtS 1102 DRAWING. 4 credits, tuition* (includes \$5 special fee and \$20 course fee): Resident \$319; Non-resident \$877.60.

Work from life and nature. Introduction to color and pictorial structure. (Prereq 1101. See **Restrictions**, page 45. Limited to 20)

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

(See also CSch 0182, Drawing Minneapolis Landmarks)

ArtS 1301 BASIC SCULPTURE. 4 credits, tuition* (includes \$10 special fee and \$65 course fee): Resident \$369; Non-resident \$927.60.

Beginning course in metal construction; intensive study of structure with emphasis on form and space. (No prereq. See **Restrictions**, page 45. Limited to 20)

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

ArtS 1601 VIDEO ARTS PRODUCTION I. 4 credits, tuition* (includes \$5 special fee and \$170 course fee): Resident \$469; Non-resident \$1027.60.

The use of video cameras, microphones, and video recorders, techniques of lighting, sound recording, and editing are explored through lecture, demonstration, and hands-on experience. Work of video artists are viewed and discussed in terms of video theory and technique. Students work in groups to plan, shoot, and edit a short tape. (No prereq. Limited to 15)

Ten wk, ★Sec 50, W, 6-10, Intermedia Arts, 425 Ontario Street SE, Downing

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

ArtS 1602 ART AND COMPUTERS I. 4 credits, tuition* (includes \$5 special fee and \$170 course fee): Resident \$469; Non-resident \$1027.60.

A combination lecture and studio course focusing on the creative use of the Amiga and various other microcomputers. This computer graphics course will introduce students to the principles and use of computers and software packages from which they generate images of their own design to be recorded and displayed on videotape. (No prereq. Limited to 15)

Ten wk, ★Sec 50, T, 1-5, Intermedia Arts, 425 Ontario Street SE, Morse

Ten wk, ★Sec 51, W, 6-10, Intermedia Arts, 425 Ontario Street SE, Morse

(See also electronic imaging courses in the Compleat Scholar noncredit section)

ArtS 1701 INTRODUCTION TO PHOTO MEDIUM. 4 credits, tuition* (includes \$10 special fee and \$40 course fee): Resident \$344; Non-resident \$902.60.

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)

ArtS 1811 CERAMICS. 4 credits, tuition* (includes \$10 special fee and \$65 course fee): Resident \$369; Non-resident \$927.60.

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 \$369; Non-resident \$927.60.

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

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

ArtS 3105 (formerly 1105) PAINTING. 4 credits, tuition* (includes \$10 special fee and \$15 course fee): Resident \$333; Non-resident \$918.20.

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 #. Limited to 20)

First 5 wk, ★Sec 50, MW, 6-9:45, ArtB 161

ArtS 3120 PAINTING. 4 credits (maximum 12 cr), tuition* (includes \$10 special fee and \$15 course fee): Resident \$333; Non-resident \$918.20.

Continuation of media development and individual problems. (Prereq 1401, 3105. Limited to 20)

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

ArtS 3130 WATERCOLOR. 4 credits (maximum 12 cr), tuition* (includes \$10 special fee and \$15 course fee): Resident \$333; Non-resident \$918.20.

Introduction to transparent watercolor. Figure, still life, landscape, and individual directions. (Prereq 1101, 1404, 1401 or #. Meets concurrently with 5130. See **Restrictions**, page 45. Limited to a combined total of 20)

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

(See also watercolor courses in the Compleat Scholar noncredit section)

ArtS 3601 VIDEO ARTS PRODUCTION II. 4 credits, tuition* (includes \$5 special fee and \$170 course fee): Resident \$483; Non-resident \$1068.20.

Building on skills learned in ArtS 1601 students will develop conceptual skills involved in video production. Areas covered will include scripting, storyboarding, budgeting, and other preproduction concerns; advanced camera and lighting techniques, editing with emphasis on the creative process, video processing, and monitoring equipment. Students will complete a final project individually or with a group. (Prereq 1601. Limited to 15)

Ten wk, ★Sec 50, M, 6-10, Intermedia Arts, 425 Ontario Street SE, Rivard

ArtS 5130 WATERCOLOR. 4 credits (maximum 16 cr), tuition* (includes \$10 special fee and \$15 course fee): Resident \$333; Non-resident \$918.20.

Advanced watercolor techniques, aesthetic directions. Continued development of concepts and individual direction. (Prereq 12 cr of 3130 or #. Meets concurrently with 3130. See **Restrictions**, page 45. May not be taken for graduate credit. Limited to a combined total of 20)

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.



SPLIT ROCK arts program

summer workshops in Minnesota

Forty-five week-long summer intensive workshops in creative writing, visual arts, fine crafts, and creativity development. Held on the University's Duluth campus on the hilltops overlooking Lake Superior; retreat-style workshops at the Cloquet Forestry Center; and the Split Rock Arts Program Institute for Weavers on the relaxing St. Paul campus. Work with nationally renowned artists and writers to enhance your creative potential; design original baskets; create a visual, written, or photographic journal; design quilts; create loom-woven art; write poetry, fiction, or nonfiction work; draw and paint; create contemporary bead and fabric art; write children's books; learn traditional Japanese arts; 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 9 through August 12, 1995. 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, or write Split Rock Arts Program, 306 Westbrook Hall, 77 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455.

Art History (ArH)

(107 Jones Hall: 624-4500)

College of Liberal Arts

(See also *The Arts* in the Compleat Scholar non-credit section)

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

Sheila McNally, Professor of Classical Studies and Art History

ArH 3035 MYTHOLOGY IN WESTERN ART.

4 credits, \$Clas 3035, tuition* (includes \$5 course fee): Resident \$313; Non-resident \$898.20.

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, 6:30-9, FolH 306, McNally

Biology (Biol)

(223 Snyder Hall: 624-9717)

College of Biological Sciences

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

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

Biol 1009 GENERAL BIOLOGY. 5 credits, tuition* (includes \$10 course fee): Resident \$377.50; Non-resident \$1075.75. (IS)

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 S160

Ten wk, ★Sec 51, Lect MT, 6-7:15, MoosT 2-650, Peifer; Lab MT, 7:30-9:15, KoltH S167

Ten wk, ★Sec 52, Lect MT, 6-7:15, MoosT 2-650, Peifer; Lab MT, 7:30-9:15, KoltH S170

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Business, Bachelor of Applied (BAB)

(306 Wesbrook Hall: 626-8724)

Continuing Education and Extension

Textbooks for most BAB courses are available at the Inver Hills Community College bookstore

Nancy Johnson, Assistant Professor,
Metropolitan State University

Continuing Education and Extension offers the Bachelor of Applied Business degree in cooperation with Inver Hills Community College (IHCC). Interested students should discuss plans with an adviser in CEE Counseling at (612) 625-2500.

All courses meet at Inver Hills. 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 CEE adviser on applicability of credits in B.A.B. courses if you are working on another University of Minnesota degree.

For B.A.B. registration instructions, visit or write the B.A.B. office at 306 Wesbrook Hall, University of Minnesota, 77 Pleasant Street S.E., Minneapolis, MN 55455; or call (612) 626-8724

BAB 3012 PROBLEMSOLVING IN COMPLEX ORGANIZATIONS. 4 credits, tuition*: Resident \$336; Nonresident \$1020.

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. Limited to 25)

Spec Term, ★Sec 1, Th, 6-9, June 22-Aug. 31,
Science Bldg 136, IHCC, Johnson. *No late fee through June 15.*

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)

Jennifer W. Spencer, Teaching Assistant in
Strategic Management

BGS 3004 INTERNATIONAL BUSINESS. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40. (IS)

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 40)

First 5 wk, ★Sec 50, TTh, 5:45-8:45, BlegH 120,
Spencer

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 \$362; Non-resident \$1019.40. (IS)

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)

Guillermo Rojas, Professor

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Chic 3507 INTRODUCTION TO CHICANO LITERATURE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

History, background, readings in all genres of Chicano literature. *Meets CLA Cultural Pluralism and Group D—Literary and Artistic Expression requirements.* (No prereq. Limited to 40)
Second 5 wk, ★Sec 50, MW, 6-8:30, BlegH 225, Rojas

Chic 3508 INTRODUCTION TO CHICANO LITERATURE: TEXT AND CONTEXT. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Major literary works by Chicano writers in their social and historical context. *Meets CLA Cultural Pluralism requirement.* (No prereq. Limited to 40)
First 5 wk, ★Sec 50, MW, 6-8:30, BlegH 340, Rojas

Child Psychology (CPsy)

(106 Child Development: 624-1891)

College of Education

Institute of Child Development

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

Nancy Weinfield, Teaching Assistant

CPsy 1301 INTRODUCTORY CHILD PSYCHOLOGY. 4 credits, \$3309, \$5301, tuition*: Resident \$294; Non-resident \$852.60. (IS)

Introduction to the science of child behavior; review of theories and research. (Prereq 5 cr introductory psychology. Meets concurrently with 3309)

Ten wk, Sec 50, M, 6:20-8:50, BuH 120, Weinfield

CPsy 3309 INTRODUCTORY CHILD PSYCHOLOGY FOR THE SOCIAL SCIENCES. 4 credits, \$1301, \$5301, tuition*: Resident \$346; Non-resident \$1003.40.

Science of child behavior; review of theory and research; designed for majors in psychology, sociology, and related disciplines; not suggested for child psychology majors. (Prereq Psy 1001. Meets concurrently with 1301)

Ten wk, Sec 50, M, 6:20-8:50, BuH 120, Weinfield

Classical and Near Eastern Studies

(330 Folwell Hall: 625-5353)

Classical and Near Eastern Studies

College of Liberal Arts

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

Harry Barnes, Visiting Assistant Professor

Jackson Hershbell, Professor

Sheila McNally, Professor

Oliver Nicholson, Assistant Professor

Classics (Clas)

Clas 1042 GREEK AND ROMAN MYTHOLOGY. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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 104, Hershbell

Clas 1002 AGE OF PERICLES. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

“Golden age” of Athens in 5th century B.C. Emergence of Athenian democracy and origins of tragedy, comedy, and history; art and architecture. (No prereq)

First 5 wk, Sec 50, TTh, 6:20-8:50, FolH 104, Barnes

Clas 1024 AGE OF SAINT AUGUSTINE OF HIPPO. 4 credits, \$3024, tuition*: Resident \$294; Non-resident \$852.60.

Replacement of the Roman Empire in Western Europe by barbarian kingdoms (A.D. 363 to circa 500); consolidation of Constantinople as capital in the East. Literature, art, and thought resulting from Christianity becoming the religion of the Empire; pagan resistance. (No prereq)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 104, Nicholson

Clas 1043 INTRODUCTION TO GREEK AND ROMAN ARCHAEOLOGY. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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, FolH 306, McNally

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Clas 3035 MYTHOLOGY IN WESTERN ART. 4 credits, §ArtH 3035, tuition* (includes \$5 course fee): Resident \$313; Non-resident \$898.20.

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 ArtH 3035)

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

Latin (Lat)

No Lat courses offered through Extension Classes summer 1995

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)

Kathleen Feeley, Lecturer
Susan Johnston, Lecturer

CDIs 5900 TOPICS IN COMMUNICATION DISORDERS: AUGMENTATIVE COMMUNICATION TECHNOLOGY. 2 or 3 credits, tuition*: Resident \$154 or \$231; Non-resident \$446.60 or \$669.90; Resident Graduate credit \$214 or \$321; Non-resident Graduate credit \$428 or \$642; Resident Graduate School credit \$367.50 or \$551.25; Non-resident Graduate School credit \$808.50 or \$1212.75.

Intended for students who are interested in designing and implementing augmentative and alternative communication systems involving electronic communication aids for learners who have severe communicative disabilities. Addresses issues pertinent to the implementation of electronic communication aids and provides hands-on experience with a number of portable electronic communication aids as well as computer applications. The number of credits (either 2 or 3) is based on the number of portable electronic communication devices on which the student chooses to achieve competency. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 15)

Spec Term, ★Sec 50, MTWThF, 9 a.m.-12, July 13-26, ShevH 125, Feeley, Johnston. *No late fee through July 6.*

The Compleat Scholar

(See page 96)

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 \$367.50; Non-resident \$1065.75. (IS)

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. Students whose work does not meet an acceptable standard in 1011 will receive a continuation grade ("X"), and will take Comp 1013 to complete the requirement. Comp 1013 is taught every quarter during the academic year.

Ten wk, ★Sec 50, T, 6-8:50, KoltH S134

Ten wk, ★Sec 51, T, 6-8:50, AmundH 156

Ten wk, ★Sec 52, W, 6-8:50, KoltH S134

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Comp 3014 WRITING IN THE SOCIAL SCIENCES. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

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)

Ten wk, ★Sec 50, T, 6-8:30, BlegH 350

Ten wk, ★Sec 51, T, 6-8:30, KoltH S133

Ten wk, ★Sec 52, W, 6-8:30, KoltH S135

Ten wk, ★Sec 53, W, 6-8:30, KoltH S133

Comp 3022 CRITICAL READING AND WRITING FOR MANAGEMENT. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

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)

Ten wk, ★Sec 50, W, 6-8:30, BlegH 350

Comp 3027 ADVANCED EXPOSITORY WRITING. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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, KoltH S132

Ten wk, ★Sec 51, W, 6-8:30, AmundH 124

Comp 3031 TECHNICAL WRITING FOR ENGINEERS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

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)

Ten wk, ★Sec 50, T, 6-8:30, AmundH 124

Ten wk, ★Sec 51, T, 6-8:30, KoltH S135

Ten wk, ★Sec 52, W, 6-8:30, AmundH 156

Ten wk, ★Sec 53, Th, 6-8:30, AmundH 120

Ten wk, ★Sec 54, Th, 6-8:30, SmithH 121

Comp 3032 PREPROFESSIONAL WRITING FOR BUSINESS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

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)

Ten wk, ★Sec 50, Th, 6-8:30, BlegH 130

Ten wk, ★Sec 51, Th, 6-8:30, RarigC 610

Comp 3033 WRITING FOR THE HEALTH SCIENCES. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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)

Ten wk, ★Sec 50, T, 6-8:30, AmundH 120

Ten wk, ★Sec 51, Th, 6-8:30, AmundH 156

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

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 Continuing Education and Extension in conjunction with North Hennepin Community College, contact Nancy Gonzalez in CEE Counseling at (612) 625-0132 (e-mail: ngonzale@mail.cee.umn.edu).

CSci 3101 AN INTRODUCTION TO COMPUTER APPLICATIONS FOR SCIENTISTS AND ENGINEERS. 4 credits, tuition* (includes \$25 computer fee): Resident \$371; Non-resident \$1028.40.

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 quarter calculus. Limited to 60)

First 5 wk, ★Sec 50, MW, 6-8:50, EE/CSci 3115

CSci 3113 INTRODUCTION TO PROGRAMMING IN C. 4 credits, tuition* (includes \$25 computer fee): Resident \$371; Non-resident \$1028.40.

Intensive introduction to syntax and semantics of the C language, with introduction to UNIX tools for implementing C programs. Students will write programs, use de-bugging aids, and build libraries. (Prereq 3101 or 3102 or any programming experience and precalculus or #. Limited to 60)

First 5 wk, ★Sec 50, TTh, 6-8:50, EE/CSci 3115
Second 5 wk, ★Sec 51, MW, 6-8:50, EE/CSci 3115

CSci 3316 STRUCTURE OF COMPUTER PROGRAMMING I. 4 credits, tuition* (includes \$25 computer fee): Resident \$371; Non-resident \$1028.40.

Different programming paradigms as a formal way of expressing computer algorithms and data. Procedures, recursion, and iteration as algorithmic development techniques. Use of abstraction and modularity. Scheme language used for illustrating ideas and lab problems. (Prereq 1 qtr calculus or #. Limited to 60)

Second 5 wk, ★Sec 50, TTh, 6-8:50, EE/CSci 3115

Continuing Education for Women (CEW)

(See page 95)

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)

David Shupe, Lecturer in Religious Studies

CSCL 1301 DISCOURSE AND SOCIETY. 4 credits, tuition*: Resident \$294; Non-resident \$852.60. (IS)

General introduction to modes of expression (e.g., verbal, visual, musical) through representative works. Analysis of discourse in relation to social structures, examining its role in creating and contesting social borders, replicating cultures, and attaching differential privilege to various practices. (No prereq. Limited to 30)

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

CSCL 1303 KNOWLEDGE, PERSUASION, AND POWER. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Inquiry into the ways certain bodies of discourse come to cohere, to exercise persuasive power, and to be regarded as authoritative, while others are marginalized, ignored, or denigrated. Interrelations of center and periphery, hegemony and counterhegemony, canon and apocrypha. (No prereq. Limited to 30)

Second 5 wk, ★Sec 50, TTh, 6-8:30, FolH 214

(See also CSch 0235, Perspective, World View, and the Myth of Completeness: Toward an Expanded Reality)

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)

Diane Aldis, Teaching Specialist
Scott Anderson, Teaching Specialist
Joe Chvala, Teaching Specialist
Mary Harding, Teaching Specialist
Barbara Loeb, Teaching Specialist
Linda Stoen, Teaching Specialist

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

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.

Dnce 1011 INTRODUCTION TO MODERN I. 1 credit, tuition* (includes \$30 special fee): Resident \$103.50; Non-resident \$243.15.

Introduction to fundamentals of modern dance technique. (No prereq. Limited to 25)

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

Dnce 1014 INTRODUCTION TO BALLET I. 1 credit, tuition* (includes \$30 special fee): Resident \$103.50; Non-resident \$243.15.

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

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

Dnce 1015 INTRODUCTION TO BALLET II. 1 credit, tuition* (includes \$30 special fee): Resident \$103.50; Non-resident \$243.15.

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

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

Dnce 1077 BEGINNING TAP I. 1 credit, tuition* (includes \$30 special fee): Resident \$103.50; Non-resident \$243.15.

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

Dnce 1110 DANCE TOPICS: AEROBICS FOR THE DANCER. 1 credit, tuition* (includes \$30 special fee): Resident \$103.50; Non-resident \$243.15.

Low-impact aerobic workout using techniques of modern and jazz. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, MW, 5-6, NorrisH 67, Stoen
Second 5 wk, ★Sec 51, MW, 5-6, NorrisH 67, Stoen

Dnce 1110 DANCE TOPICS: YOGA. 1 credit, tuition* (includes \$30 special fee): Resident \$103.50; Non-resident \$243.15.

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. Meets concurrently with PE 1110. Limited to a combined total of 30)

Second 5 wk, ★Sec 52, T, 7:30-9, NorrisH 153, Anderson

Dnce 3330 DANCE TOPICS: TEACHING AEROBICS. 2 credits, tuition* (includes \$30 special fee): Resident \$184; Non-resident \$476.60.

Students develop a core knowledge and practical skills for teaching dance exercise and basic knowledge of human anatomy, kinesiology, and physiology. (Prereq 1003 or 1006. Meets concurrently with Kin 3330. Limited to a combined total of 25)

First 5 wk, ★Sec 50, MW, 6:10-7:40, NorrisH 67, Stoen

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)

DHA 1325 (formerly Dsgn 1325, 1525) DESIGN PROCESS: TWO-DIMENSIONAL DESIGN I. 4 credits, \$1525, tuition*: Resident \$294; Non-resident \$852.60.

Experiments with principles of two-dimensional design. (Prereq Pre-Dsgn Comm, Dsgn Comm, Pre- or Applied Design, Costume Design, ASci & Dsgn, Housing, Interior Design, Pre-Interior Design, Retail Merchandising, Pre-Retail Merchandising, or Textiles and Clothing. Limited to 20)

Spec Term, ★Sec 50, TTh, June 19-Aug. 2, 6-9:55, McNH 262, StP Campus. *No late fee through June 12*

(See also REX 0802, 2D on 3D)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

DHA 1328 (formerly Dsgn 1328, 1321, 1528) DESIGN PROCESS: COLOR I. 4 credits, §Dsgn 1328, 1521, 1528, tuition* (includes \$7.50 special fee): Resident \$301.50; Non-resident \$860.10.

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 1523 or 1323, or 1525 or 1325, Applied Design, Pre-Dsgn Comm, Pre-Costume Design, Housing, Interior Design, Pre-Interior Design, Retail Merchandising, pre-Retail Merchandising, or Textiles and Pre-Clothing, Clothing or Apparel Science Design student, pass portfolio review. Limited to 20)

Spec Term, ★Sec 50, MW, 6-9:55, June 19-Aug. 2, McNH 262, StP Campus. *No late fee through June 12.*

DHA 1331 (formerly Dsgn 1331, 1531) SURFACE-FABRIC DESIGN I. 4 credits, §Dsgn 1331, 1531, tuition* (includes \$35 course fee): Resident \$329; Non-resident \$887.60.

Exploration of surface pattern and composition with varied media and materials: dyeing, resist, batik, stencil, block printing, and others. (Prereq 1521 or 1528, or 1328, 1523 or 1323, 1525 or 1325, Pre-Dsgn Comm, Pre-Applied Design, Pre-Costume Design, Housing, Interior Design, Pre-Interior Design, AScd, Retail Merchandising, Pre-Retail Merchandising, Textiles and Clothing. Limited to 18)

Spec Term, ★Sec 50, TTh, 6-9:55 and arr, June 19-Aug. 2, McNH B9, StP Campus. *No late fee through June 12.*

DHA 1334 INTRODUCTION TO COMPUTER APPLICATIONS FOR THE DESIGNER. 2 credits, tuition* (includes \$10 course fee): Resident \$157; Non-resident \$436.30.

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

Spec Term, ★Sec 50, M, 6-9:55 and arr, June 19-Aug. 2, McNH 305 (Mac Lab), StP Campus. *No late fee through June 12.*

DHA 3212 (formerly TexC 3212) CULTURAL DIVERSITY IN DRESS. 4 credits, §TexC 3212, TexC 3661, tuition*: Resident \$308; Non-resident \$893.20.

Understanding the function of dress in worldwide cultures. Environmental, physical, and social factors related to design of dress. (Prereq DHA 1001 or 1101, Soc 1001 or Anth 1002)

Second 5 wk, Sec 50, TTh, 3:30-5:20, McNH 216, StP Campus

DHA 3301 (formerly Dsgn 3301, 3356) PRODUCTION FOR THE GRAPHIC DESIGNER. 4 credits, §Dsgn 3256, Dsgn 3356, tuition* (includes \$10 course fee): Resident \$318; Non-resident \$903.20.

Investigation of processes and techniques for production of print communication. Fundamentals of keyline, mechanical art production, specification for printing industry. (Prereq pass portfolio review for degree program. Limited to 22)

Spec Term, ★Sec 50, TTh, 6-9:55, June 20-Aug. 3, McNH B3, StP Campus. *No late fee through June 13.*

DHA 3334 (formerly Dsgn 3334, 3534) COMPUTER APPLICATIONS TO DESIGN PROBLEMS. 4 credits, §Dsgn 3334, Dsgn 3534, tuition* (includes \$10 course fee): Resident \$318; Non-resident \$903.20.

Focuses on solutions to the design process using the Macintosh. Students will gain experience in microcomputers, peripherals, and software. (Prereq 1523 or 1323, 1525 or 1325, 1528 or 1328, or #. Limited to 18)

Spec Term, ★Sec 50, TTh, 6-9:55, June 20-Aug. 3, McNH 305 (Mac Lab), StP Campus. *No late fee through June 13.*

DHA 3350 (formerly Dsgn 3255, 3350) TYPOGRAPHIC DESIGN. 4 credits, §Dsgn 3255, Dsgn 3355, tuition* (includes \$10 course fee): Resident \$318; Non-resident \$903.20.

Theory and application of principles of typographic composition. Emphasis on typography history, type faces and letter forms, typesetting methods, terminology, type specification, and copyfitting. (Prereq pass portfolio review for degree program. Limited to 22)

Spec Term, ★Sec 50, MW, 6-9:55, June 19-Aug. 2, McNH B3, StP Campus. *No late fee through June 12.*

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

DHA 3352 (formerly Dsgn 3352, 3252) GRAPHIC DESIGN II. 4 credits, \$3252, tuition* (includes \$10 course fee): Resident \$318; Non-resident \$903.20.

Continued development of professional skills in areas of layout and design for advertising. Photographic techniques, color separation, and other printing/production techniques are included. (Prereq 3351 or 3251 pass portfolio review for degree program, or #. Limited to 22)

Spec Term, ★Sec 1, TTh, 6-9:55, June 20-Aug. 3, McNH 258, StP Campus. *No late fee through June 13.*

DHA 5170 SPECIAL TOPICS IN DHA: COMPUTER APPLICATIONS IN DESIGN III. 4 credits, tuition* (includes \$10 course fee): Resident \$318; Non-resident \$903.20; Resident Graduate credit \$438; Non-resident Graduate credit \$866; Resident Graduate School credit, \$745; Non-resident Graduate School credit \$1627.

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. **Must be taken A-F.** (Prereq 5334, 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 20-Aug. 3, McNH 305 (PowerMac Lab), StP Campus. *No late fee through June 13.*

DHA 5334 (formerly Dsgn 5334, 5534) COMPUTER APPLICATIONS TO DESIGN II. 4 credits, \$Dsgn 5334, \$Dsgn 5534, tuition* (includes \$10 course fee): Resident \$318; Non-resident \$903.20; Resident Graduate credit \$438; Non-resident Graduate credit \$866; Resident Graduate School credit, \$745; Non-resident Graduate School credit \$1627.

Solutions to the design process using Macintosh computers. Students use software to combine images and print and explore color and desktop publishing. (Prereq 3334 or 3534. May not be taken for graduate credit at the University of Minnesota. Limited to 18)

Spec Term, ★Sec 50, MW, 6-9:55, June 19-Aug. 2, McNH 305 (PowerMac Lab), StP Campus. *No late fee through June 12.*

Early Childhood Studies Program

(Department of Extension Classes, 306 Wesbrook Hall: 625-1088)

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 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

See Area Studies Programs, page 44, and Institute of Languages and Literatures, page 71.

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 \$294; Non-resident \$852.60. (IS)

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 420
Ten wk, 1101, ★ Sec 51, MW, 7:30-8:50, BlegH 205

Ten wk, 1101, ★ Sec 52, TTh, 6-7:20, BlegH 155
Ten wk, 1102, ★ Sec 53, MW, 7:30-8:50, BlegH 145

Ten wk, 1102, ★ Sec 54, TTh, 6-7:20, BlegH 150

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Econ 3101 MICROECONOMIC THEORY. 4 credits, \$3105 or BGS 3001, tuition*: Resident \$308; Non-resident \$893.20.

Behavior of households, firms and industries under competitive and monopolistic conditions. Factors influencing production, price and advertising decisions. **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)

(245 Peik Hall: 626-9392)

College of Education

American Sign Language Classes: 245 Peik Hall: 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 CEE Counseling (625-2500) with questions.

EPsy 1601 AMERICAN SIGN LANGUAGE I. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

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 25)

Spec Term, ★Sec 50, MTWThF, June 30-July 18, 8-11:30 a.m., EltH N647

Spec Term, ★Sec 51, MTWThF, June 30-July 18, 1-4:30, EltH N647

Second 5 wk, ★Sec 52, MTWTh, 9:15-11:30 a.m., EltH N647

Second 5 wk, ★Sec 53, MTWTh, 1-3:30, EltH N647

EPsy 1602 AMERICAN SIGN LANGUAGE II. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

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 25)

First 5 wk, ★Sec 50, MTWTh, 9:15-11:30 a.m., PeikH 225

Spec Term, ★Sec 51, MTWThF, June 30-July 18, 8-11:30 a.m., WullH 220

Spec Term, ★Sec 52, MTWThF July 20-Aug. 4, 8-11:30 a.m., WullH 140

Spec Term, ★Sec 53, MTWThF July 20-Aug. 4, 1-4:30, WullH 140

EPsy 1603 AMERICAN SIGN LANGUAGE III. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

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 25)

Spec Term, ★Sec 50, MTWThF, June 30-July 18, 1-4:30, WullH 140

Spec Term, ★Sec 51, MTWThF, July 20-Aug. 4, 8-11:30 a.m., FolH 246

EPsy 3601 AMERICAN SIGN LANGUAGE IV. 5 credits, tuition*: Resident \$432.50; Non-resident \$1254.25.

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 25)

First 5 wk, ★Sec 50, MTWTh, 1-3:30, PeikH 225

Spec Term, ★Sec 51, MTWThF, July 20-Aug. 4, 1-4:30, PeikH 225

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

EPsy 3602 AMERICAN SIGN LANGUAGE V. 5 credits, tuition*: Resident \$432.50; Non-resident \$1254.25.

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 25)

Spec Term, ★Sec 50, MTWThF, June 30-July 18, 8-11:30 a.m., VinH 314

Spec Term, ★Sec 51, MTWThF, July 20-Aug. 4, 8-11:30 a.m., FolH 344

Elementary Education (Elem)

(125 Peik Hall: 625-6372)

College of Education

(Department of Curriculum and Instruction)

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

No Elem courses offered through Extension Classes summer 1995

English

(207 Lind Hall: 625-3363)

College of Liberal Arts

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

Chester Anderson, Professor

Christopher Anson, Associate Professor

Maria Damon, Associate Professor

M. J. Fitzgerald, Associate Professor

Philip Furia, Professor

Shirley Nelson Garner, Professor

Christine Mack Gordon, Lecturer

David Haley, Associate Professor

David Luke, Assistant Professor

John Mowitt, Associate Professor

Charles Sugnet, Associate Professor

Asha Varadharajan, Assistant Professor

Joel Weinsheimer, Professor

English Language and Literature courses (Engl)

(Creative writing and editing classes are in the Creative and Professional Writing [EngW] section that follows. See other literature courses in the Compleat Scholar noncredit section)

Engl 1005 INTRODUCTION TO LITERATURE. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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

First 5 wk, ★Sec 50, MW, 6-8:30, LindH 229

Second 5 wk, ★Sec 51, TTh, 6-8:30, MurH 311

Engl 1018 INTRODUCTION TO MODERN FICTION. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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, TTh, 6-8:30, LindH 229, Weinsheimer

Engl 1019 INTRODUCTION TO MODERN DRAMA. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Critical discussion of and writing about selected modern plays. Typical authors: Ibsen, Shaw, Synge, Chekhov, O'Neil, Williams, Beckett. (No prereq. Limited to 40)

Second 5 wk, ★Sec 50, MW, 6-8:30, LindH 229

Engl 1595 INTRODUCTION TO "THIRD WORLD" LITERATURES IN ENGLISH. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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, TTh, 6-8:30, LindH 217, Sugnet

Second 5 wk, ★Sec 51, MW, 6-8:30, LindH 217

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Engl 3008 TECHNIQUES OF LITERARY STUDY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

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, AmundH 158
Second 5 wk, ★Sec 51, MW, 6-8:30, LindH 215,
Gordon

Engl 3242 SHAKESPEARE. 4 credits, \$3243, tuition*: Resident \$308; Non-resident \$893.20. (IS)

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

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

(See also CSch 0127, Reason in Madness: *King Lear* on Page and on Stage)

Engl 3651 POETRY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Historical development of poetry from the Renaissance to the present. (No prereq. Limited to 40)

First 5 wk, ★Sec 50, TTh, 6-8:30, LindH 203, Luke
(See also REX 0806, The Computer and English Poetry)

Engl 3910 TOPICS IN ENGLISH AND NORTH AMERICAN LITERATURE: CLASSIC HOLLYWOOD CINEMA. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Concept of "master narratives." Classical Hollywood cinema both economically (on the national and international market), and culturally (as a virtual norm of proper storytelling). The emergence of Hollywood as a cultural mode of production as well as exemplary films, including film noir. Alternative practices, both filmic and literary. The status of classical Hollywood cinema as a theoretical category within film analysis and cultural studies. (No prereq. Limited to 40)

Second 5 wk, ★Sec 50, TTh, 6-8:30, LindH 203,
Mowitt

(See also CSch 0147, Classic Hollywood Cinema, 1915-1950)

Engl 3960 JUNIOR-SENIOR SEMINAR: POETRY AS CULTURAL CRITIQUE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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. Contact the English Undergraduate Office at (612) 625-4592 for department permission to register. (Prereq English major status, completion of Comp 3011 or 3012, jr or sr and written Δ. Limited to 17)

Second 5 wk, ★Sec 50, TTh, 6-8:30, LindH 303,
Damon

Engl 5432 AMERICAN POETRY. 4 credits, §3711, §CICv 3711, §CICv 5711, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

1890-1940. Typical authors: Frost, Stevens, Pound, Moore, Hughes, Williams, Stein. (Prereq grad or Engl major or Δ. Qualified students may register for graduate credit at the University of Minnesota. Limited to 40)

First 5 wk, ★Sec 50, TTh, 6-8:30, LindH 302, Furia

Engl 5452 AMERICAN NOVEL. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Late 19th and 20th centuries. Typical authors: James, Dreiser, Cather, Hemingway, Fitzgerald, Faulkner, Ellison, Morrison. (Prereq grad or Engl major or Δ. Qualified students may register for graduate credit at the University of Minnesota. Limited to 40)

Second 5 wk, ★Sec 50, TTh, 6-8:30, LindH 302,
Furia

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Engl 5620 BRITISH AND AMERICAN WOMEN WRITERS: SILENCE AND BREAKING THE SILENCE AS A LITERARY AND FEMINIST TRADITION. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Women writers who are concerned with silence and breaking silence as a literary and/or feminist tradition. Defining a tradition of women's silence (which is present in English literature from the beginning) and considering the responses to this tradition in such women writers as Virginia Woolf, Adrienne Rich, Tillie Olsen, Audre Lorde, and Maxine Hong Kingston. Class participants also will have the opportunity to explore the silences in their own lives and writing. (Prereq grad or Engl major or Δ. Qualified students may register for graduate credit at the University of Minnesota. Limited to 40)

First 5 wk, ★Sec 50, MW, 6-8:30, LindH 217, Garner

Engl 5920 TOPICS IN ANGLOPHONE LITERATURE: POST-COLONIAL ENCOUNTERS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Literatures in English from formerly colonized areas of the world such as India, Africa, the Caribbean, and Australia, as well as contemporary examples of minority literatures from the United States and Canada. Selections will include a range of genres as well as appropriate critical texts on race, gender, colonization, and nationalism. (Prereq grad or Engl major or Δ. Qualified students may register for graduate credit at the University of Minnesota. Limited to 40)

First 5 wk, ★Sec 50, MW, 6-8:30, LindH 302, Varadharajan

Creative and Professional Writing courses (EngW)

(209 Lind Hall: 625-6366)

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

EngW 1102 INTRODUCTION TO FICTION WRITING. 4 credits, tuition*: Resident \$294; Non-resident \$852.60. (IS)

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)

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

EngW 1103 INTRODUCTION TO POETRY WRITING. 4 credits, 1111, tuition*: Resident \$294; Non-resident \$852.60. (IS)

Beginning instruction in the art of poetry. Discussion of student poems and contemporary poetry, ideas for generating material, and writing exercises both in and out of class. (Prereq EngW 1101 or equivalent. Limited to 25)

First 5 wk, ★Sec 50, TTh, 6-8:30, LindH 315

EngW 3102 INTERMEDIATE FICTION WRITING. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

For students with experience in writing fiction. Exercises, experiments, assigned readings, and discussion of students' work. (Prereq EngW 1102 or equivalent. Limited to 20)

Second 5 wk, ★Sec 50, TTh, 6-8:30, LindH 320

EngW 5310 READING AS WRITERS: WRITING OFF THE MAINSTREAM. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

An examination of fictions that do not take the exploration of character and relationships as their main focus, but stem from a variety of other concerns: Borges, Kafka, Beckett, and Calvino are among writers under discussion. Depending on the composition of the class, there will be either discussion of the students' work, or assignments, or both. (Prereq Δ. Qualified students may register for graduate credit at the University of Minnesota. Limited to 15)

First 5 wk, ★Sec 50, TTh, 6-8:30, LindH 320, Fitzgerald

English as a Second Language (ESL)

(102 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)

Students registering for ESL courses must take one of the following tests: The Minnesota Battery of

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

English Language Proficiency (MBatt) or the Test of English as a Foreign Language (TOEFL), or the Michigan English Language Assessment Battery (MELAB). Arrangements to take one of these tests can be made through the Minnesota English Center. Arrangements for taking the test must be completed well in advance of registration. Call 624-1503 for information. *When registering for classes, your test score/placement forms must be attached to your registration form.*

ESL 0326 DEVELOPING FLUENCY IN ENGLISH AS A SECOND LANGUAGE. No credit, tuition* (includes \$5 course fee): \$372.50.

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 a satisfactory score on the MBatt or TOEFL; and written permission. Limited to 20)

Ten Wk, ★Sec 50, TTh, 6:20-8:50, 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)

Pauline Boss, Professor

Jeth Maddock-Magistad, Teaching Assistant

Jane Tornatore, Teaching Assistant

Robert Yahnke, Professor, General College

FSoS 1001 INTRODUCTION TO FAMILY RELATIONSHIPS. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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, 6-8:30, McNH 197, StP Campus, Tornatore

(See also REX 0502, Relationships in Adoptive Families)

FSoS 1025 PARENTHOOD. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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, 6-8:30, McNH 197, StP Campus, Maddock-Magistad

FSoS 5230 INDEPENDENT STUDY IN FAMILY SOCIAL SCIENCE. 1-3 credits (maximum 16 cr), tuition* each credit: Resident \$77; Non-resident \$223.30; Resident Graduate credit \$107; Non-resident Graduate credit \$214; Resident Graduate School credit \$183.75; Non-resident Graduate School credit \$404.25. 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: SUPERVISION OF MARITAL AND FAMILY THERAPY. 3 credits, tuition*: Resident \$231; Non-resident \$669.90; Resident Graduate credit \$321; Non-resident Graduate credit \$642; Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

For marriage and family therapists who want to become supervisors, this course is designed to meet didactic and interactional course requirements for the Approved Supervisor designation as stipulated by the American Marriage and Family Therapy Association (AAMFT). Topics included are theories of supervision, structures for supervision (e.g., individual, group, team, and co-therapy), methods of supervision (e.g., live, video, case presentation), the evaluation process, and legal/ethical issues. Also covered are therapist-client-supervisor relationships, potential problems, and contextual issues. (Prereq 8214 or equivalent written #. Qualified students may register for graduate credit at the University of Minnesota)

Spec Term, Sec 50, F, 8 a.m.-5, June 16, 23, 30, McNH 375, StP Campus, Boss. *No late fee through June 9*

FSoS 5253 HUMANITIES, AGING, AND FAMILY LIVING. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

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, McNH 375, StP Campus, Yahnke

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Alcohol and Drug Counseling Education Program

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

Philip Colgan, Director, Alcohol and Drug Counseling Education Program
 William Goodman, Coordinator, Alcohol and Drug Counseling Education Program
 Cynthia Meyer, Teaching Specialist, Alcohol and Drug Counseling Education Program
 Winnifred Lilly-Taylor, 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 1994-95 Extension Classes Bulletin, page 503. 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.

(See also REX 0320, Alcohol and Degenerative Diseases)

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 \$308; Non-resident \$893.20.

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 14-July 26, McNH 274, StP Campus and Sa, 9 a.m.-5, June 24, McNH 274, StP Campus, Colgan, Meyer

FSoS 3032 CHEMICAL ABUSE AND THE FAMILY: AN OVERVIEW. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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 13-15, McNH 198, StP Campus and Th, 6-10, July 20, 27, McNH 274, StP Campus, Lilly-Taylor, Colgan. *No late fee through July 7*

FSoS 3034 TOPICS IN ALCOHOL AND DRUG ABUSE. 1-5 credits, tuition* each credit: Resident \$77 a credit; Nonresident \$223.30.

Selected readings in alcohol and drug use and problems and evaluation of student's mastery of the assigned study. 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, Goodman, Robinson

FSoS 3035 CLINICAL INTERNSHIP IN CHEMICAL ABUSE PROBLEMS. 2-18 credits, tuition* each credit: Resident \$77; Nonresident \$223.30. (*Plus additional \$25 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, Robinson

FSoS 3037 GROUP THERAPY: THEORY AND PRACTICE. 3 credits, tuition*: Resident \$231; Non-resident \$669.90.

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, July 6-8, McNH 274, StP Campus, Colgan. *No late fee through June 30*

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

FSoS 5008 INTROSPECTIVE WORKSHOP AND CLINICAL SUPERVISION. 1 or 2 credits, tuition* each credit: Resident \$77; Nonresident \$223.30; Resident Graduate credit \$107; Non-resident Graduate credit \$214; Resident Graduate School credit \$183.75; Non-resident Graduate School credit \$404.25. Special topics, ethical issues, nonregular program or course in Family Social Science for pre-service or in-service helping professionals. (Prereq 3035 or 5035. Qualified students may register for graduate credit at the University of Minnesota)
Ten wk, Sec 50, Arr, Robinson

FSoS 5029 COUNSELING SKILLS PRACTICUM I. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

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 14-July 26, McNH 274, StP Campus; and Sa, 9 a.m.-5, June 24, McNH 274, StP Campus, Colgan, Meyer

FSoS 5032 CHEMICAL ABUSE AND THE FAMILY: AN OVERVIEW. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

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 13-15, McNH 198, StP Campus and Th, 6-10, July 20, 27, McNH 274, StP Campus, Lilly-Taylor, Colgan. *No late fee through July 7*

FSoS 5034 TOPICS IN ALCOHOL AND DRUG ABUSE. 1-5 credits, tuition* each credit: Resident \$77; Non-resident \$223.30; Resident Graduate credit \$107; Non-resident Graduate credit \$214; Resident Graduate School credit \$183.75; Non-resident Graduate School credit \$404.25.

See course description and prerequisites for 3034. 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, Goodman, Robinson

FSoS 5035 CLINICAL INTERNSHIP IN CHEMICAL ABUSE PROBLEMS. 2-18 credits, tuition* each credit: Resident \$77; Non-resident \$223.30; Resident Graduate credit \$107; Non-resident Graduate credit \$214; Resident Graduate School credit \$183.75; Non-resident Graduate School credit \$404.25. (*Plus additional \$25 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, Robinson

FSoS 5037 GROUP THERAPY: THEORY AND PRACTICE. 3 credits, tuition*: Resident \$231; Non-resident \$669.90; Resident Graduate credit \$321; Non-resident Graduate credit \$642; Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

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, July 6-8, McNH 274, StP Campus, Colgan. *No late fee through June 30*

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 \$362; Non-resident \$1019.40. (IS)

A survey of world 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, 6-9, BlegH 130

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Food Science and Nutrition (FScN)

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

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

FScN 5401 SPECIAL TOPICS IN FOOD SCIENCE AND NUTRITION. 2 credits, tuition*: Resident \$173; Non-resident \$501.70; Resident Graduate credit \$214; Non-resident Graduate credit \$428; Resident Graduate School credit \$367.50; Non-resident Graduate School credit \$808.50.

In-depth investigation of specific topics not covered by other courses. These sections will examine safe laboratory experiments using familiar foodstuffs and the science behind those experiments. The emphasis will be on building a science background using foods as examples. *These sections are intended for educators. Sections 51 and 52 are sponsored by an Eisenhower Grant in Science and Mathematics and provide stipend and kits for participants. Some restrictions apply; call 626-9657 for details.* (Prereq Δ. Call 626-9657 for more information. Qualified students may register for graduate credit at the University of Minnesota)

Spec Term, Sec 50, MTWThF, June 26-30, 8 a.m.-4, FScN 222, StP Campus. *No late fee through June 19*

Spec Term, Sec 51, MTWThF, July 17-21, 8 a.m.-4, FScN 222, StP Campus. *No late fee through July 10*

Spec Term, Sec 52, MTWThF, Aug. 7-11, 8 a.m.-4, FScN 222, StP Campus. *No late fee through July 31*

French (Fren)

(260 Folwell Hall: 624-4308)
College of Liberal Arts

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

Catherine Liu, Assistant Professor

(See also REX 0516, *Configuring French Identity: Texts, Images, Institutions*)

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.

Fren 0001 READING FRENCH. No credit, tuition*: \$294. (IS)

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, AmundH 116, Liu

Fren 1104 INTERMEDIATE FRENCH. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

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 138

Fren 1105 INTERMEDIATE FRENCH. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

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 138

French and Italian (FrIt)

(260 Folwell Hall: 624-4308)
College of Liberal Arts

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

FrIt 3608 NEW WAVE CINEMAS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Film work of directors recasting classical traditions of Europe and America. Filmic theories of the Western, B-genre; political cinema: Godard, Resnais, Rivette, Pasolini, Antonioni, Bertolucci. Course varies in structure. Knowledge of French and Italian helpful but not necessary. (No prereq. Limited to 50)

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

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)

Lisa Albrecht, Associate Professor
Jill Gidmark, Professor
David Giese, Professor
Allen Johnson, Associate Professor
Peter Kahn, Assistant Professor
Laura Koch, Associate Professor
Neil Krasnoff, Teaching Assistant
Patrick Kroll, Associate Professor
Sander Latts, Associate Professor
Patricia Neiman, Lecturer
Ivan Policoff, Associate Professor
Douglas Robertson, Professor
Gail Thoen, Assistant Professor
Kimberly J. Wilcox, Assistant Professor
Robert Yahnke, Professor
Candido Zanoni, Professor

Continuing Education for Women (CEW) offering: GC 1132

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 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*: \$294.

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 11, Koch

GC 0625 INTERMEDIATE ALGEBRA, PART I. No credit, \$1445, tuition*: \$367.50. (IS)

For students with adequate background in elementary algebra. Sets, real numbers, linear equations, linear inequalities, absolute value equations and inequalities, exponents, polynomials, systems of equations, word problems, rational expressions, roots and radicals, complex numbers. (Prereq GC Math placement or GC 0621 with grade of C or better. Limited to 30)

Ten wk, ★Sec 50, TTh, 5:30-8 (open lab 5-5:30), ApH 117, Giese

(See also PSch 0662, Elementary Algebra)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

GC 0631 INTERMEDIATE ALGEBRA, PART II. No credit, §1446, tuition*: \$367.50. (IS)

Good knowledge of linear and quadratic equations and inequalities, exponents, factoring, rational expressions, roots, radicals, and graphing assumed. Topics include complex numbers, quadratic equations, matrix solutions to systems of equations, general inequalities, conic sections, functions, logarithmic and exponential functions, sequences, series, and binomial theorem. (Prereq GC math placement or 0625 with grade of C or better or) Ten wk, Sec 50, TTh, 5:30-8, ApH 303, Johnson

GC 0643 BASIC MATHEMATICS: PROGRAMMED STUDY. No credit, tuition*: \$294.

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 11, Koch

General College Course Offerings**GC 1076 CAREER PLANNING.** 2 credits, tuition*: Resident \$147; Non-resident \$426.30.

Career workshop designed to assess students' interests, abilities, needs, values, personality through testing/subjective self-exploration. Occupational information provided through computerized system and other printed materials. For students undecided about future career choice/need to confirm a tentative career choice. (No prereq. Limited to 20)

First 5 wk, ★Sec 50, T, 5:30-8:50, ApH 127, Neiman (See also PSch 0702, Career Decisions: Strategies for Change)

GC 1112 ECOLOGICAL EVALUATION OF ENVIRONMENTAL PROBLEMS. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Concepts of ecology (organization of ecosystems, material cycling, energy flow and production, population dynamics, and community interactions) needed to understand proximate and ultimate causes of environmental problems such as world hunger, endangered species, deforestation, solid and hazardous wastes, global climate change, acid rain, and cultural eutrophication. Frameworks and methodologies for critically evaluating impacts and proposing interventions. (No prereq. Limited to 35)

First 5 wk, ★Sec 50, MW, 6-9, ApH 303, Krasnow

GC 1132 BIOLOGICAL SCIENCE: THE HUMAN BODY. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

Problems of physical, mental, and social health are related to anatomy, physiology, and needs of the human organism. In studying the heart, for example, instructor shows what it is, how it works, its importance to overall functioning of the body, what can go wrong with it, and what is known about keeping it on the job. Films, televised dissections, and demonstrations supplement lectures. (No prereq. Limited to 35)

Second 5 wk, ★Sec 50, MTWTh, 9:30 a.m.-12, ApH 303, Wilcox. Offered through Continuing Education for Women.

GC 1162 PHYSICAL SCIENCE: STELLAR ASTRONOMY. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Introductory study of large-scale structure of universe. Definition and measurement of certain properties of stars: magnitude, distance, temperature, size. Spectral classification of stars, nebulae, pulsars, black holes, galaxies, quasars; theories of relativity, cosmology, cosmogony. Opportunity to observe through University telescope. Four one-hour evening laboratories or independent study project arranged. (No prereq. Limited to 35)

First 5 wk, ★Sec 50, TTh, 6-9, Phys 131, Policoff

GC 1233 UNITED STATES: GOVERNMENT AND POLITICS. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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)

Second 5 wk, Sec 50, MW, 6-9, ApH 226, Kahn

GC 1283 PSYCHOLOGY OF HUMAN DEVELOPMENT. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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 35)

First 5 wk, ★Sec 50, MW, 5:30-9, ApH 103, Latts

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

GC 1366 LITERATURE: IMAGES OF WOMEN IN LITERATURE. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Images of women (such as submissive wife, sex object, woman alone, and liberated woman) as presented in short fiction, drama, and poetry, and occasionally in advertising, movies, and television. Problems and concerns of women as writers, as expressed in diaries and essays of such writers as Virginia Woolf and Tillie Olson. (No prereq. Limited to 24)

Second 5 wk, ★Sec 50, TTh, 5-8, ApH 102, Gidmark

GC 1374 THE MOVIES: AN INTRODUCTORY COURSE. 4 credits, tuition* (includes \$10 course fee): Resident \$304; Non-resident \$862.60.

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 35)

First 5 wk, ★Sec 50, MW, 5:30-9, ApH 302, Yahнке

GC 1422 WRITING LABORATORY: COMMUNICATING IN SOCIETY. 4 credits, \$1423, tuition*: Resident \$294; Non-resident \$852.60.

Primarily through expository writing, but also through reading and discussion, students analyze how people communicate in society: how they perceive events and ideas, how they think and write about them. Extensive writing practice. Requires use of a computer. Microcomputer instruction; uses Macintosh PC. (Prereq 1421. Limited to 18)

First 5 wk, ★Sec 50, MW, 5-8, ApH 219, Albrecht

GC 1454 STATISTICS. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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, 5-9, ApH 117, Giese

GC 1456 FUNCTIONS AND PROBLEMS OF LOGIC. 4 credits, \$1442, tuition*: Resident \$294; Non-resident \$852.60.

Introduction to logical thinking. Students apply critical analysis and techniques of precise reasoning to various types of discourse and argument, and develop habits of systematic thinking by learning about complexities of language, difference between good and bad evidence, and methods of deductive and inductive reasoning. (No prereq. Limited to 30)

First 5 wk, ★Sec 50, TTh, 5-8, ApH 302, Zaroni

GC 1513 SMALL BUSINESS FUNDAMENTALS. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

To be successful in a small business it is necessary to have an understanding of the many forces in society that have an impact on small ventures. In addition, students will explore opportunities to market products and services and to purchase and/or manage an existing firm. Topics include finance, marketing, management, legal and ethical issues, and writing a business plan. (No prereq. Limited to 35)

First 5 wk, ★Sec 50, TTh, 6-9, ApH 226, Kroll

GC 1571 INTRODUCTION TO MICROCOMPUTER APPLICATIONS. 5 credits, tuition* (includes \$10 course fee): Resident \$377.50; Non-resident \$1075.75. (IS)

Self-paced course covering operating system (DOS), word processing (WordPerfect), spreadsheet (Lotus clone), and data base (dBase) III applications. Emphasis on using microcomputers in practical ways. Course work may be done on classroom microcomputers or on student's own IBM-compatible microcomputer. (Prereq 0621 or elementary algebra. Meets concurrently with GC 1572. Limited to a combined total of 20)

Ten wk, ★Sec 50, T, 5-9:10, ApH 321, Robertson

GC 1572 INTRODUCTION TO COMPUTER PROGRAMMING. 5 credits, \$3571, tuition* (includes \$10 course fee): Resident \$377.50; Non-resident \$1075.75. (IS)

Self-paced course where students design, write, code, and run BASIC programs. Emphasis on writing structured programs for social sciences. Provides excellent background for further programming courses. Course work may be done on classroom microcomputers or student's own IBM-compatible microcomputer. (Prereq 1571 or IBM microcomputer experience. Meets concurrently with GC 1571. Limited to a combined total of 20)

Ten wk, ★Sec 50, T, 5-9:10, ApH 321, Robertson

GC 1721 MARRIAGE, FAMILY, AND PERSONAL FULFILLMENT. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Psychological, social, and biological aspects of marriage and family living. Helping students gain understanding of, and self-awareness concerning, such areas as dating, mate selection, getting married, having children, and sexuality. Adjustments outside of traditional marital and family relationships. (No prereq. Limited to 35)

First 5 wk, ★Sec 50, TTh, 5:30-8:30, ApH 103, Thoen

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

German (Ger)

(205 Folwell Hall: 625-2080)

College of Liberal Arts

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

Wolfgang Taraba, Professor
Ray Wakefield, Associate Professor

(See also REX 0701, The German Language in Minnesota)

Ger 1000 INDIVIDUALIZED GERMAN FOR NON-DEGREE CREDIT. *This course has been merged with Ger 1110. Former students of Ger 1000 may continue in Ger 1110.*

Ger 1110 INDIVIDUALIZED BEGINNING GERMAN. 1-3 credits (maximum 15 cr), §1101-1102-1103; tuition* each credit: Resident \$73.50; Non-resident \$213.15.

Structure, writing, and comprehension (listening and reading). Students work at own pace with books, computer, audio- and videotapes, earning credit through testing as they progress through material. Teacher available for consultation and testing. Two weeks after the end of the session, students who have completed more credits during the session than they registered for should go to the 101 Wesbrook Hall Registration Office to pay for the additional credits. No refunds will be given for uncompleted credits. The continuation course is 1104. (No prereq. Limited to 60)

Ten wk, ★Sec 50, W, 6-8:30, WaLib 15 (first meeting); FolH 147 (subsequent meetings)

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*: \$294.

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 208, Taraba

Ger 0222 READING GERMAN. No credit, tuition*: \$294.

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 cards 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 312, 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)

Arlindo G. Chilundo, Lecturer in African and Afro-American Studies

John M. Currin, Teaching Assistant

George Green, Associate Professor

David Kopf, Professor

Byron K. Marshall, Professor

John Kim Munholland, Professor

Richard Rudolph, Professor

Stuart B. Schwartz, Professor

Hist 1002 INTRODUCTION TO MODERN EUROPEAN HISTORY SINCE THE MIDDLE AGES. 4 credits, §1002H, §3002, tuition*: Resident \$294; Non-resident \$852.60. (IS)

Revolution, liberalism, and nationalism from 1715 to 1870. (No prereq. Meets concurrently with 3002) Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 140

Hist 1003 INTRODUCTION TO MODERN EUROPEAN HISTORY SINCE THE MIDDLE AGES. 4 credits, §1003H, §3003, tuition*: Resident \$294; Non-resident \$852.60. (IS)

1870 to recent times. (No prereq. Not open to jrs, srs. Meets concurrently with 3003)

First 5 wk, Sec 50, MW, 6-8:30, RarigC 616, Rudolph

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Hist 1307 AMERICAN HISTORY. 4 credits, §1301H, tuition*: Resident \$294; Non-resident \$852.60. (IS)

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

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

Hist 1308 AMERICAN HISTORY. 4 credits, §1302H, tuition*: Resident \$294; Non-resident \$852.60. (IS)

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

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 235, Green

Hist 1403 SURVEY OF LATIN AMERICAN HISTORY: 1929 TO PRESENT. 4 credits, §Hist 3403, §LAS 3403, tuition*: Resident \$294; Non-resident \$852.60.

Contradictions of modern societies: economic expansion, dependency, population growth and the social crisis, democratic and authoritarian politics. (No prereq. Meets concurrently with 3403, LAS 3403)

First 5 wk, Sec 50, TTh, 6-8:30, RarigC 616

Hist 1432 HISTORY OF AFRICA: 1800 TO PRESENT. 4 credits, §3432, §Afro 1432, 3432, tuition*: Resident \$294; Non-resident \$852.60.

Colonial rule, the forced restructuring and underdevelopment of African economies, African resistance, nationalism, and the problems of independence. (No prereq. Meets concurrently with 3432, Afro 3432)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 250, Chilundo

Hist 1463 INTRODUCTION TO EAST ASIA IN MODERN TIMES. 4 credits, §3463, §EAS 1463, 3463 tuition*: Resident \$294; Non-resident \$852.60.

Decline of Asian empires; European and American imperialism; Asian responses; nationalism; social revolution, reintegration, modernization in China, Japan, Vietnam, Korea; retreat of European and American empires. (No prereq. Meets concurrently with 3463, EAS 1463)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 155

Hist 3002 INTRODUCTION TO MODERN EUROPEAN HISTORY SINCE THE MIDDLE AGES. 4 credits, §1002, §1002H, tuition*: Resident \$308; Non-resident \$893.20.

See course description for Hist 1002. (No prereq. Meets concurrently with 1002)

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

Hist 3003 INTRODUCTION TO MODERN EUROPEAN HISTORY SINCE THE MIDDLE AGES. 4 credits, §1003, 1003H, tuition*: Resident \$308; Non-resident \$893.20.

1870 to recent times. (No prereq. Meets concurrently with 1003)

First 5 wk, Sec 50, MW, 6-8:30, RarigC 616, Rudolph

Hist 3403 SURVEY OF LATIN AMERICAN HISTORY: 1929 TO PRESENT. 4 credits, §1403, §LAS 3403, tuition*: Resident \$308; Non-resident \$893.20.

Contradictions of modern societies: economic expansion, dependency, population growth and the social crisis, democratic and authoritarian politics. (No prereq. Meets concurrently with Hist 1403, LAS 3403)

First 5 wk, Sec 50, TTh, 6-8:30, RarigC 616

Hist 3424 HISTORY OF MEXICO: PRE-COLUMBIAN PERIOD THROUGH INDEPENDENCE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Indian cultures of Mexico before the conquest and subsequent contact between Europeans and Indians during the formation of Mexican society. (No prereq)

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 110, Schwartz

Hist 3432 HISTORY OF AFRICA: 1800 TO PRESENT. 4 credits, §1432, §Afro 1432, 3432, tuition*: Resident \$308; Non-resident \$893.20.

See course description for Hist 1432. (No prereq. Meets concurrently with 1432, Afro 3432)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 250, Chilundo

Hist 3463 INTRODUCTION TO EAST ASIA IN MODERN TIMES. 4 credits, §1463, §EAS 1463, 3463, tuition*: Resident \$308; Non-resident \$893.20.

See course description for Hist 1463. (No prereq. Meets concurrently with 1463, EAS 1463)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 155

Hist 3471 20th-CENTURY JAPAN. 4 credits, §5471, §EAS 3471, tuition*: Resident \$308; Non-resident \$893.20.

World War I and Japan's emergence as an industrial society and world power in the 1920s; rise of militarism, World War II in the Pacific; political reform, economic resurgence, and cultural change in the postwar era. (No prereq. Meets concurrently with 5471, EAS 3471)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 250, Marshall

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Hist 3653 THE ENGLISH CIVIL WAR AND RESTORATION. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

English Civil War; Oliver Cromwell and the Interregnum, the Restoration era and the glorious revolution (1625-1689). (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 235, Currin

Hist 3722 EUROPE IN THE ERA OF WORLD WAR II. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Rise of fascism and totalitarian movements in Europe; political and military origins of World War II; course of the war and its impact on European History. (No prereq)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 420, Munholland

Hist 3821 UNITED STATES IN THE 20TH CENTURY: 1890-1932. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

The closing of the agricultural frontier and the growth of industrialism, the corporation and the city; populism and progressivism; the end of isolation and the growth of overseas empire, prohibition and women's suffrage. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 140

Hist 5471 20TH-CENTURY JAPAN. 4 credits, \$Hist 3471, \$EAS 3471, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

See course description for Hist 3471. (No prereq). Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with Hist 3471 and EAS 3471)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 250, Marshall

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)

George Kliger, Assistant Professor
David Shupe, Lecturer

Hum 1002 HUMANITIES IN THE MODERN WEST II. 4 credits, \$3002, \$Rhet 1302, tuition*: Resident \$294; Non-resident \$852.60. (IS)

Romanticism, liberalism, socialism; Industrial Revolution, materialism, cult of the individual and some counterstatements; realism, naturalism. Integrative study of works by creative figures such as Wordsworth, Byron, Adam Smith, Bentham, Marx, Mill, Stendhal, Flaubert, Ibsen, Dostoevsky, Delacroix, Courbet, Daumier, Beethoven, Berlioz, Liszt. (No prereq. Meets concurrently with Hum 3002)

Second 5 wk, Sec 50, MW, 6-8:30, FordH 120, Shupe

Hum 1005 HUMANITIES IN THE MODERN WEST V. 4 credits, \$Hum 3005, tuition*: Resident \$294; Non-resident \$852.60.

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, Corbusier, Fellini. (No prereq. Meets concurrently with 3005)

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

Hum 3002 HUMANITIES IN THE MODERN WEST II. 4 credits, \$1002, \$Rhet 1302, tuition*: Resident \$308; Non-resident \$893.20. (IS)

See course description for Hum 1002. (Prereq jr or sr or #. Meets concurrently with Hum 1002)

Second 5 wk, Sec 50, MW, 6-8:30, FordH 120, Shupe

Hum 3005 HUMANITIES IN THE MODERN WEST V. 4 credits, \$Hum 1005, tuition*: Resident \$308; Non-resident \$893.20.

See course description for Hum 1005. *Additional work for upper-level credit.* (Prereq jr or sr or #. Meets concurrently with 1005)

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

Industrial Engineering/ Operations Research (IEOR)

(125 Mechanical Engineering: 625-0705)
Institute of Technology

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

Edward Barnett, Lecturer
Kevin J. Dooley, Associate Professor
Shahrukh A. Irani, Assistant Professor

* Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

IEOR 3000 (formerly IEOR 5000) INTRODUCTION TO INDUSTRIAL ENGINEERING ANALYSIS. 4 credits, \$IEOR 5000, tuition*: Resident \$346; Non-resident \$1003.40.

Elements of manufacturing and production systems, types of industrial problems solved by the industrial engineer, programming, artificial intelligence techniques, methods engineering for process improvement, critical path method and PERT, fundamentals of engineering economy, cost estimation, value engineering, concurrent engineering, design for manufacture. Applications may include production scheduling, facility layout, quality engineering, manufacturing automation, product design. (Prereq Math 1252)

First 5 wk, Sec 50, MW, 6-9, MechE 221, Irani, Barnett

IEOR 5030 QUALITY ENGINEERING. 4 credits, tuition*: Resident \$346; Non-resident \$1003.40; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

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)

Second 5 wk, Sec 50, MW, 5-8, EE/CSci 3111, Dooley

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 \$362; Non-resident \$1019.40.

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, 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 220

IR 3010 THE INDIVIDUAL IN THE ORGANIZATION. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40.

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 105

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 in a self-designed emphasis program as part of their Carlson School B.S.B. degree.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Starting Points

Students who have been accepted into, or who plan to apply to the Carlson School, should begin with the Core Courses of IDSc 1010 and IDSc 3030. IDSc 3030 is a requirement for Carlson School students as part of the B.S.B. program.

Core Courses

IDSc 1010 and IDSc 3030 are intended to help students develop the capability to acquire, analyze, and manage data as business professionals. The courses are a mix of skill development and general knowledge in information technology.

IDSc 1010 (formerly MSci 1010) FUNDAMENTALS OF INFORMATION DEVELOPMENT AND USE. 4 credits, §MSci 1010, tuition* (includes \$16 special fee): Resident \$310; Non-resident \$868.60.

Provides an overview of the process of understanding, developing, and presenting data to support management decision making. Topics for the fundamentals of information development include management decision making and the need for the availability and proper use of data; measurement principles and data quality; methods for the acquisition of secondary and primary data including surveys, quasi-experimental and true experiments, simulation, and time-oriented process models. Topics for the fundamentals of information use include methods for organizing, summarizing, interpreting, and presenting complex data types. Models of data analysis include data displays or graphics; exploratory data analysis; frequency distributions; measures of location, variability, and association; elementary probability operations; and time-oriented process models. **Must be taken A-F.** (Prereq 30 credits, pre-management student, Math 1111 or §1111. Limited to 45)

Ten wk, ★Sec 50, Th, Lect, 5:30-8:15, BlegH 105; Th, Rec, 8:15-9:15, BlegH 105

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 \$362; Non-resident \$1019.40.

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 30)

Ten wk, ★Sec 50, W, Lect, 5:30-8:15, BlegH 440; W, Lab, 8:15-9:15, BlegH 440

IDSc 5998 SPECIAL RESEARCH TOPICS: BUSINESS PROCESS REDESIGN (BPR). 4 credits, tuition* (includes \$450 special fee): Resident \$796; Non-resident \$1453.40; Resident Graduate credit \$878; Non-resident Graduate credit \$1306; Resident Graduate School credit \$1185; Non-resident Graduate School credit \$2067.

BPR is an approach for fundamentally rethinking and radically redesigning business systems, including an overhaul of job designs, organizational structures, and management systems. The objectives of BPR are to make processes effective, flexible, and consistently high quality. A new, advanced, automated methodology will be presented and used as part of the course. (No prereq. Qualified students may register for graduate credit at the University of Minnesota)

Ten wk, Sec 50, Th, 5:30-9, BlegH 350

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

Institute of Linguistics and Asian and Slavic Languages and Literatures

(192 Klaeber Court: 624-3331)

College of Liberal Arts

Textbooks for most courses offered through the Institute are available at University of Minnesota Bookstore—East Bank in Williamson Hall (625-6000) for courses on the Minneapolis campus; at University of Minnesota Bookstore—West Bank (625-3000) for classes on that campus; at University of Minnesota Bookstore—St. Paul (624-9200) for classes on that campus

Bruce Downing, Associate Professor of Linguistics

Caesar E. Farah, Professor of African and Afro-American Studies

Pam Sherwood Gabrielson, Teaching Associate

Gary Jahn, Associate Professor of Russian

Balkacem Saadallah, Visiting Professor

Laurie Swabey, Teaching Assistant

Carmen Valero, Visiting Assistant Professor

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Linguistics (Ling)

Ling 3001 INTRODUCTION TO LINGUISTICS. 5 credits, \$3005, 5001, tuition*: Resident \$385; Non-resident \$1116.50.

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, 6:20-9:35, Nich 109

Ling 5001 INTRODUCTION TO LINGUISTICS. 5 credits, \$3001, 3005, tuition*: Resident \$385; Non-resident \$1116.50; Resident Graduate credit \$535; Non-resident Graduate credit \$1070; Resident Graduate School credit \$918.75; Non-resident Graduate School credit \$2021.25.

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, 6:20-9:35, Nich 109

Ling 5801 INTRODUCTION TO LANGUAGE LEARNING. 4 credits, tuition*: Resident \$308; Non-resident \$893.20Resident Graduate credit \$535; Non-resident Graduate credit \$1070; Resident Graduate School credit \$918.75; Non-resident Graduate School credit \$2021.25.

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, TTh, 6:20-8:50, KoltH S138

Middle Eastern Languages and Cultures (MELC)

MELC 1536 THE RELIGION OF ISLAM. 4 credits, \$ReIS 1036, tuition*: Resident \$294; Non-resident \$852.60.

The rise of Islam in historical context; the role of Muhammad, Koran traditions; fundamentals and observances of the faith; sectarian movements; the spread of Islam into Asia, Africa, and America; reformist movements and current trends. (No prereq. Meets concurrently with ReIS 1036)

First 5 wk, Sec 50, MW, 6:20-8:50, BlegH 105, Saadallah

Russian (Russ)

Russ 1111-1112 RUSSIAN FOR READING KNOWLEDGE I & II. 4 credits each term, tuition* each term: Resident \$294; Non-resident \$852.60.

Prepares students to read Russian scholarly prose.

1111: Presents the basic structures of Russian grammar and inculcates effective strategies of reading. *1112:* Completes the survey of grammar and offers a practicum in the application of the methods learned. (No prereq)

First 5 wk, 1111, Sec 50, TTh, 6:20-8:50, FolH 318, Jahn

Second 5 wk, 1112, Sec 50, TTh, 6:20-8:50, FolH 318, Jahn

Translation and Interpreting (TrIn)

(133 Klaeber Court: 624-4055)

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 certified interpreters and experienced bilingual professionals. *Courses are offered contingent on sufficient enrollment for persons bilingual in the following language pairs: English-Cambodian; English-Hmong; English-Lao; English-Vietnamese; 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.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

TrIn 3001 INTRODUCTION TO TRANSLATION. 3 credits, tuition*: Resident \$231; Non-resident \$669.90.

An introductory course in translation, oriented toward the translation of everyday documents of the sort that bilinguals working in the community are often 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 the language pairs listed above. *Register by language.* The class will be offered only if a minimum of 4 students enroll in each section, with a minimum of 20 students total in the course. (Prereq #. Sections 50, 51, 52, and 53 meet concurrently)

Ten wk, Sec 50, Cambodian, W, 6:10-9, FolH 116, Downing

Ten wk, Sec 51, Hmong, W, 6:10-9, FolH 138, Downing

Ten wk, Sec 52, Lao, W, 6:10-9, FolH 138, Downing

Ten wk, Sec 53, Vietnamese, W, 6:10-9, FolH 116, Downing

TrIn 3001 INTRODUCTION TO TRANSLATION. 3 credits, tuition*: Resident \$231; Non-resident \$669.90.

An introductory course in translation, oriented toward the translation of everyday documents of the sort that bilinguals working in the community are often 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 the language pairs listed above. *Register by language.* A section will be offered only if a minimum of 10 students enroll in that section. (Prereq #. Sections 54 and 55 meet separately)

Ten wk, Sec 54, Russian, W, 6:10-9, FolH 148

Second 5 wk, Sec 55, Spanish, TTh, 6:10-9, FolH116, Valero

TrIn 3103 INTERMEDIATE COMMUNITY INTERPRETING II. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

This intensive course, a continuation of TrIn 3102 (Intermediate Community Interpreter I), will focus on achieving professional proficiency in community interpreting, and covers consecutive interpreting and sight translation skills, vocabulary research and storage, intercultural issues, and analysis of the interpreting process. *Register by language.* The class will be offered only if a minimum of 4 students enroll in each section, with a minimum of 12 students total in the course. (Prereq 3102. Sections 50, 51, 52, and 53 meet concurrently)

Spec Term, Sec 50, Hmong, TWThFSa, June 20-24, 9 a.m.-5, FolH 208, Arr; W, June 28, July 12, 6-9, Arr, Gabrielson, Swabey

Spec Term, Sec 51, Russian, TWThFSa, June 20-24, 9 a.m.-5, FolH 208, Arr; W, June 28, July 12, 6-9, Arr, Gabrielson, Swabey

Spec Term, Sec 52, Vietnamese, TWThFSa, June 20-24, 9 a.m.-5, FolH 208, Arr; W, June 28, July 12, 6-9, Arr, Gabrielson, Swabey

Spec Term, Sec 53, Spanish, TWThFSa, June 20-24, 9 a.m.-5, FolH 208, Arr; W, June 28, July 12, 6-9, Arr, Gabrielson, Swabey

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 1995

Interdepartmental Study (ID)

(225 Johnson Hall: 624-5701)

College of Liberal Arts

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

Thomas Halbach, Soil Science
Douglas Huffman, Education

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

ID 5525 GARBAGE, GOVERNMENT, AND THE GLOBE: FOR TEACHERS ONLY. 3 credits, tuition*: Resident \$231; Non-resident \$669.90. Learn about the messy, real-world problems of solid waste management in this one-week course for teachers. How will garbage affect the economy, politics, environment, and health of future generations of animals and humans? Because the problems of garbage cannot be solved by narrow disciplinary approaches, this course is multidisciplinary, examining issues such as toxic waste, ethics, the effects of garbage on soil and water, and the implications of waste management policies on international business. *Teachers will examine, select, and create curricular materials on solid waste that they can use in their classes. The course will involve speakers, videos, discussions, and field trips in addition to lectures.* Call (612) 624-5092 for further information and registration materials. (Prereq teacher. Inquire about graduate credit at the time of registration. Limited to 30) Spec Term, ★Sec 50, July 17-21, Aug. 8, 9 a.m.-4, BorH 375, StP Campus, Halbach, Huffman

International Relations (IntR)

(248 Social Sciences: 624-9353)
College of Liberal Arts

No IntR courses offered through Extension Classes summer 1995

Jewish Studies

See Ancient Near Eastern Studies

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)

(See also REX 0512, *The Evolution of the Spanish Press Under Democracy*)

Jour 1001 INTRODUCTION TO MASS COMMUNICATION. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Nature, functions, and responsibilities of communication media and agencies examined from point of view of professional journalist. News, opinion, entertainment, and persuasion functions; current trends. Specialized communication; aspects of advertising. **May not be taken S-N.** (No prereq. Limited to 72)

Second 5 wk, ★Sec 50, TTh, 6:20-8:50, MurH 105

Kinesiology (Kin)

(224 Cooke Hall: 625-1007)

College of Education

(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)

Kevin Cardinal, Instructor

Linda Stoen, Teaching Specialist

Kin 3112 TOPICS IN KINESIOLOGY: FIRST RESPONDER FOR ATHLETIC COACHES AND ATHLETIC TRAINERS. 1-12 cr (max 12 cr). 3 credits this offering, tuition*: Resident \$259.50; Non-resident \$752.55.

First Responder curriculum specifically tailored to meet the needs of the injured amateur or professional athlete. Lectures and skills focused on preparing the athletic coach and/or athletic trainer to recognize, initially stabilize, and appropriately transport the injured athlete. Successful completion will entitle the student to First Responder certification. Includes AHA CPR training. *Attendance is mandatory at all sessions, in their entirety. There will be no make-up sessions.* **NOTE:** In order for this course to be offered, a minimum of 12 students must enroll. *For questions regarding the status of the class, telephone (612) 625-3333. Must be taken A-F.* (Prereq #)

First 5 wk, Sec 50, TTh, 5-9, Mayo C365, Cardinal

Kin 3330 DANCE TOPICS: TEACHING AEROBICS. 2 credits, tuition* (includes \$30 special fee): Resident \$203; Non-resident \$531.70.

Students develop a core knowledge and practical skills for teaching dance exercise and basic knowledge of human anatomy, kinesiology, and physiology. (Prereq 1003 or 1006. Meets concurrently with Dnce 3330. Limited to a combined total of 25)

First 5 wk, ★Sec 50, MW, 6:10-7:40, NorrisH 67, Stoen

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

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)

Paul Damon, Lecturer in Landscape Architecture

LA 1301 INTRODUCTION TO LANDSCAPE ARCHITECTURAL DRAWING. 4 credits, §Arch 1301, tuition*(includes \$25 course fee): Resident \$319; Non-resident \$877.60.

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. Recommended for entry-level students and for professionals desiring additional graphic skills. **Must be taken A-F.** *Required for the major.* (Prereq Arch or BED or LA major or #) Second 5 week, Sec 50, MW, 5-9, Arch 10

LA 1401 THE DESIGNED ENVIRONMENT. 4 credits, tuition*(includes \$25 course fee): Resident \$319; Non-resident \$877.60.

Principles and traditions within the design disciplines of architecture, landscape architecture, and urban design, along with references in the arts, sciences, and literature, will be explored in this review of the formal constructs of the designed environment. **Must be taken A-F.** (No prereq. Limited to 40) Ten wk, ★Sec 50, TTh, 5-6:45, Arch 55, Damon

Latin

See page 50.

Latin American Studies

See Area Studies Programs, page 44.

Learning and Academic Skills (LASK)

(104 Eddy Hall: 624-3323)

College of Liberal Arts

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

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.

LASK 1001 BECOMING A MASTER STUDENT. 2 credits, tuition* (includes \$30 special fee): Resident \$177; Non-resident \$456.30.

Practical assistance to the student in developing efficient study habits, organizing materials, preparing for examinations, and improving the speed and comprehension of reading. Diagnosis and practice in basic skill areas such as reading, spelling, vocabulary, and elementary composition also are provided through individualized learning projects. (No prereq. Limited to 30)

Ten wk, ★Sec 50, M, 6-8:30, NichH 109

Second 5 wk, ★Sec 51, TTh, 6-8:30, NichH 109

Liberal Studies (LS)

(306 Westbrook Hall: 625-3898)

Continuing Education and Extension

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

The Graduate School and Continuing Education and Extension offer the Master of Liberal Studies program for adult and part-time students. This degree can be completed in the evening. Interested students may call the M.L.S. office in Extension Classes for more information and application materials: (612) 626-8724.

Judith A. Martin, Associate Professor of Urban and Regional Affairs

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: THE CITY: An Exercise in Human Creativity. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Explores the historical thinking, writing, and planning of cities and compares with today's models. Examines historical and contemporary maps of specific cities (both in U.S. and Europe) and analyzes the portrayal of cities in literature, film, and music. (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

First 5 wk, ★Sec 50, Arr (call 625-3898 for information)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Linguistics

See Institute of Languages and Literatures, page 71.

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 Advancement Program

See Professional and Career Development

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)

Stuart M. Albert, Associate Professor
Geoffrey Bell, Teaching Assistant
Tatiana D. Kostova, Teaching Assistant
William J. McEvily, Jr., Teaching Assistant

Mgmt 3001 FUNDAMENTALS OF MANAGEMENT. 4 credits, \$8001, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40. (IS)

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)

First 5 wk, Sec 50, MW, 5:45-8:45, BlegH 135, McEvily

Second 5 wk, Sec 51, TTh, 5:45-8:45, AndH 370, Kostova

Mgmt 3002 PSYCHOLOGY IN MANAGEMENT. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40. (IS)
Centers on development and application of behavior principles, methods, and skills which underlie managerial competence in preventing and solving

problems within and between individuals and groups and aid in effective utilization of human resources. Various laboratory procedures are used to highlight concepts, methods and skills and furnish practice in applying them to management problems. **May not be taken S-N.** (Prereq at least 90 cr completed or in progress. Limited to 36)

Second 5 wk, ★Sec 50, MW, 5:45-8:45, BlegH 125, Albert

Mgmt 3004 BUSINESS POLICY: STRATEGY FORMULATION AND IMPLEMENTATION. 5 credits, tuition* (includes \$16 special fee): Resident \$448.50; Non-resident \$1270.25. (IS)

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 30)
First 5 wk, ★Sec 50, MW, 5:30-9, HHHCtr 30, Bell

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)

Mktg 3000 PRINCIPLES OF MARKETING. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40. (IS)

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, BlegH 5

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Mktg 3010 MARKETING RESEARCH. 4 credits, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40.

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 330

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 \$294; Non-resident \$852.60.

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 77.** (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 \$367.50; Non-resident \$1065.75. (IS)

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. **See Mathematics prerequisites page 77.** Limited to 35)

Ten wk, ★Sec 50, TTh, 6-8:10, KoltH S136

Math 1142 SHORT CALCULUS. 5 credits, §1211, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

(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 77.** Limited to 35)

Ten wk, ★Sec 50, TTh, 6-8:10, KoltH S132

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Math 1201 PRE-CALCULUS. 5 credits, §1008, §1111, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

Inequalities, analytical geometry, complex numbers, binomial theorem, mathematical induction, 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. **See Mathematics prerequisites page 77.** Limited to 35)

Ten wk, ★Sec 50, MW, 6-8:10, KoltH S138

Math 1211 CALCULUS I. 5 credits, §1142, 1311, 1611, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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 77.** Limited to 35)

Ten wk, ★Sec 50, MW, 6-8:10, KoltH S139

Math 1221 CALCULUS II. 5 credits, §1321, 1421, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

A continuation of the course described under 1211. **May be used to replace 1252.** (Prereq grade of C or better in 1211. Limited to 35)

Ten wk, ★Sec 50, MW, 6-8:10, KoltH S140

Math 1251 ONE VARIABLE DIFFERENTIAL AND INTEGRAL CALCULUS I. 4 credits, §1211, §1551H, §1411H, tuition*: Resident \$294; Non-resident \$852.60. (IS)

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 \$294; Non-resident \$852.60. (IS)

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 \$432.50; Non-resident \$1254.25; Resident Graduate credit \$535; Non-resident Graduate credit \$1070; Resident Graduate School credit \$918.75; Non-resident Graduate School credit \$2021.25.

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 S137

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)

Sant Ram Arora, Professor
Teshfahun Berhe, Lecturer
Virgil A. Marple, Professor
Kumar K. Tamma, Professor

ME 1025 ENGINEERING GRAPHICS. 4 credits, §EG 1025, tuition*: Resident \$294; Non-resident \$852.60. (IS)

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

ME 3020 MECHANICAL ENGINEERING COMPUTATION. 4 credits, tuition*: Resident \$346; Non-resident \$1003.40.

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 3900 INTRODUCTION TO ENGINEERING STATISTICS. 4 credits, tuition*: Resident \$346; Non-resident \$1003.40.

Elements of probability, descriptive statistics, binomial and Poisson distributions; estimation, hypothesis testing, regression analysis and analysis of variance. (Prereq IT student, Math 1261 or equivalent)

First 5 wk, Sec 50, MW, 6-9, EE/CSci 3111, Arora

ME 5254 DESIGN MORPHOLOGY WITH APPLICATIONS. 4 credits, tuition*: Resident \$346; Non-resident \$1003.40.

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 2260, 3210, AmundH 240

Middle Eastern Studies

See Area Studies Programs, page 44, and Institute of Languages and Literatures, page 71.

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

Michael Cherlin, Associate Professor

David Damschroder, Associate Professor

Babette Lightner, Lecturer

Clifton Ware, Associate Professor

(See also CSch 0134, Celebration of Music: Sommerfest 1995)

Mus 1001 FUNDAMENTALS OF MUSIC. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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 \$147; Non-resident \$426.30.

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 \$147; Non-resident \$426.30.

Fundamentals of vocal production—posture, respiration, phonation, articulation. (No prereq)

First 5 wk, Sec 50, MTh, 6:15-8:15, FergH 90, Ware

Mus 1512 EAR-TRAINING AND SIGHT-SINGING II. 1 credit, tuition*: Resident \$73.50; Non-resident \$213.15.

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

Mus 1532 THEORY II: DIATONIC TONALITY. 3 credits, tuition*: Resident \$220.50; Non-resident \$639.45.

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Mus 5150 BODY AWARENESS IN ACTIVITY: THE ALEXANDER TECHNIQUE FOR MUSICIANS. 2 credits, tuition*: Resident \$154; Non-resident \$446.60; Resident Graduate credit \$214; Non-resident Graduate credit \$428; Resident Graduate School credit \$367.50; Non-resident Graduate School credit \$808.50.

Introduction to the Alexander Technique with specific applications to music performance. Emphasis on body/mind awareness to promote technical ease and freedom. May be repeated for credit. (Prereq music major or #. Qualified students may register for graduate credit at the University of Minnesota. Limited to 12)

First 5 wk, ★Sec 50, T, 6-9, FergH 105, Lightner

Summer Opportunity

Through Professional Development and Conference Services

Sacred Choral Music Summer Workshop, June 26-30

Workshop with Philip Brunelle, nationally known conductor. Telephone 625-6358 for information and to register. Explores music for chorus and solo voice. Includes guest conductors. 2 graduate credits (Mus 5260)

Natural Resources and Environmental Studies (NRES)

(439 Borlaug Hall: 625-7747)

Colleges of Agriculture and Natural Resources

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

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

Terence H. Cooper, Professor

NRES 5100 PROBLEM SOLVING IN NATURAL RESOURCES AND ENVIRONMENTAL STUDIES. 5 credits, tuition*: Resident \$432.50; Non-resident \$1254.25.

Students identify and analyze natural resource and environmental problems. Development of a solution to the problem. Discussions reflect diverse aspects of the problem and assignments. Oral and written presentations. Students participate as a team. **Must be taken A-F.** (Prereq sr status or #. May not be taken for graduate credit at the University of Minnesota. Limited to 20)

Spec Term, ★Sec 50, TTh, June 13, 15, 1-5 p.m.; TTh, June 20, 22, 27, 29, July 6, 11, 13, 18, 20, 25, 27, Aug 1, 3, 8, 10, 15, 17, 22, 3-5 p.m.; BorH 375, StP Campus, Cooper

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.

OMS 1020 (formerly MSci 1020) DATA ANALYSIS AND STATISTICAL INFERENCE FOR MANAGERS. 4 credits, §MSci 1020, tuition* (includes \$16 special fee): Resident \$310; Non-resident \$868.60. (IS)

Introduction to probabilistic and statistical techniques for decision making, including data analysis, sampling, estimation, and hypothesis testing and regression. Using computer software and computer-stored data in statistical analysis. Introduction to modeling and linear programming. **Must be taken A-F.** (Prereq MSci 1010 or IDSc 1010, pre-management student, Math 1111; Math 1131 recommended. Limited to 45)

Ten wk, ★Sec 50, W, 5:30-8:50, BlegH 230

OMS 3000 (formerly OM 3000) INTRODUCTION TO OPERATIONS MANAGEMENT. 4 credits, §OM 3000, tuition* (includes \$16 special fee): Resident \$362; Non-resident \$1019.40.

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 340

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

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

C. Wade Savage, Professor

Phil 1001 LOGIC. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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, TTh, 6:20-8:50, FordH 285, Savage

Phil 1002 INTRODUCTION TO PHILOSOPHY. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

Problems, principal methods and schools of philosophy; historical and contemporary views. (No prereq)

First 5 wk, Sec 50, MW, 6:20-8:50, AmundH 158

Phil 1003 INTRODUCTION TO ETHICS. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

Problems that arise when human beings attempt to think systematically about conduct and value. (No prereq)

Second 5 wk, Sec 50, MW, 6:20-8:50, FordH 130

Physical Education (PE)

(224 Cooke Hall: 625-1007)

College of Education

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

Scott Anderson, Teaching Specialist

(See also PSch 0938, The Loneliness of the Long-Distance Runner: Marathon Training I)

PE 1110 DANCE TOPICS: YOGA. 1 credit, tuition* (includes \$30 special fee): Resident \$103.50; Non-resident \$243.15.

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. Meets concurrently with Dnce 1110, sec 52. Limited to a combined total of 30)

Second 5 wk, ★Sec 50, T, 7:30-9, NorrisH 153, Anderson

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)

Serge Rudaz, Professor

Phys 3601 SPECIAL RELATIVITY. 3 credits, tuition*: Resident \$259.50; Non-resident \$752.55. Introduction to special relativity. (Prereq 1253 or 1453)

Ten wk, Sec 50, W, 5-8, Phys 166, Rudaz

Plant Biology (PBio)

(220 Biological Sciences: 625-1234)

College of Biological Sciences

(See also the Compleat and Practical Scholar non-credit sections)

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

PBio 5960 PLANT BIOLOGY WORKSHOP DESIGNED FOR ELEMENTARY TEACHERS. 3 credits, tuition*: Resident \$259.50; Non-resident \$752.55; Resident Graduate credit \$321; Non-resident Graduate credit \$642; Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

A two-week workshop to help teachers learn how plants can be used in their classrooms (four 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, Wisconsin Fast Plants, 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, July 24-Aug. 4, 1995 plus three to four additional follow-up meetings to be arranged during the 1995-96 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)

Raymond Duvall, Professor
Edwin Fogelman, Professor
Virginia Gray, Professor
Jeffrey Legro, Assistant Professor
Ido Oren, Assistant Professor
W. Phillips Shively, Professor
John L. Sullivan, Professor

Pol 1001 AMERICAN GOVERNMENT AND POLITICS. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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, MW, 6-9:15, AndH 230, Gray

Pol 1025 WORLD POLITICS. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Contemporary international relations; forms of state interaction; problems of conflict and cooperation. (No prereq)

First 5 wk, Sec 50, MW, 6-8:30, HHCtr 20

Pol 1041 CONTEMPORARY POLITICAL IDEOLOGIES. 4 credits, tuition*: Resident \$294; Non-resident \$852.60. (IS)

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 \$308; Non-resident \$893.20.

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 210, Shively

Pol 3323 CIVIL LIBERTIES IN AMERICA. 4 credits, tuition*: Resident \$308; Non-resident \$893.20. (IS)

Political importance of civil liberties in American society. Tolerance as a social phenomenon; issues such as free speech, religion, media control, and effects of campaigning. (Prereq 1001 or equivalent or #)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 110, Sullivan

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Pol 3477 (formerly 3773) POLITICAL DEVELOPMENT. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Political processes and problems associated with economic development processes; the political economy of underdevelopment and development; problems of state building and the development of political institutions. (Prereq 1054 or 3051 or #) Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 115, Duvall

Pol 3661 DEMOCRATIC THEORY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Postulates and implications; moral foundations; democratic theory and the economic order; liberty and authority; equality; representation; participation; majority rule; critics of democracy; social science and democratic theory. (Prereq 3051 or 9 cr in social sciences or #)

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

Pol 3835 INTERNATIONAL SYSTEM. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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, MW, 6-8:30, BlegH 245, Legro

Pol 3836 FOREIGN POLICY DECISION MAKING. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Theories and examples of foreign policy decision making processes, including policy formulation and implementation. Examples drawn from various foreign policy issues. (No prereq)

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 220

Pol 5885 INTERNATIONAL CONFLICT AND SECURITY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Topics pertaining to the use of military force in international politics. Examples of topics include threat perception, nuclear strategy, arms races and arms control, and ethical perspectives on war. (Prereq 3835 or non-political science grad or #. Qualified students may register for graduate credit at the University of Minnesota)

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 250, Oren

Portuguese

See page 90.

Professional and Career Development

Business, industry, and management programs offered by the **Management Advancement Program** are designed to provide work-related training for people in corporate business, small business, and nonprofit or government settings. These non-credit programs offer both theory and practice in such areas as leadership, management, organizational change, communication, computers, and finance. Programs are scheduled in daytime seminar and evening class formats and are held at convenient locations both on and off campus. Instructors are primarily University of Minnesota faculty and administrative staff or professionals from prominent local organizations. For further information and complete course listings and descriptions, call (612) 626-8713.

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)

Shelley Blozis, Instructor

Psy 1001 INTRODUCTION TO PSYCHOLOGY. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

Introduction to study of human behavior. Prerequisite for all advanced courses in psychology. (No prereq)

Ten wk, Sec 50, MW, 6:20-8:30, AndH 270

Psy 1004-1005† INTRODUCTORY LABORATORY PSYCHOLOGY. 4 credits each offering, tuition* each offering: Resident \$294; Non-resident \$852.60.

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, EItH 150-160

Second 5 wk 1005, ★Sec 51, TTh, 6:20-8:50, EItH 150-160

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Psy 3061 INTRODUCTION TO BIOLOGICAL PSYCHOLOGY. 4 credits, \$5061, tuition*: Resident \$308; Non-resident \$893.20.

Neural mechanisms of motivation, emotion, sleep-wakefulness cycle, learning, and communication in animals and humans. (Prereq 1005 or Biol 1009 or #. Limited to 25)

Ten wk, ★Sec 50, T, 6:20-8:50, EltH N119

Psy 3101 INTRODUCTION TO PERSONALITY. 4 credits, \$5101, tuition*: Resident \$308; Non-resident \$893.20. (IS)

An overview of the field of personality, with discussions of personality theory (e.g., the theories of Freud, Jung, and Adler), of selected topics of empirical research in the field of personality, and of personality assessment. (Prereq 1001)

Ten wk, Sec 50, Th, 6-8:30, EltH 119

Psy 3201 INTRODUCTION TO SOCIAL PSYCHOLOGY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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, MurH 308

Psy 3604 INTRODUCTION TO ABNORMAL PSYCHOLOGY. 4 credits, \$5604, tuition*: Resident \$308; Non-resident \$893.20. (IS)

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, Phys 131

Psy 3801 INTRODUCTION TO STATISTICAL METHODS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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, Blozis

Ten wk, ★Sec 51, Th, 6-8:30, BuH 123, Blozis

Psy 3960 UNDERGRADUATE SEMINAR: OVERVIEW OF PSYCHOLOGICAL TESTING. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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, 6-8:20, BuH 123

Psy 5141 PSYCHOLOGY OF WOMEN. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Psychological and physical sex differences: developmental and environmental influences on dependency, aggression, achievement motivation, and achievement. Sex roles and sexuality during various life phases. (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

Psy 5202 ATTITUDES AND SOCIAL BEHAVIOR. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Attitude theory, measurement, and attitude change research in social psychology. The structure, function, and formation of attitudes; the relationship between attitudes and various social behaviors; basic principles of attitude change. (Prereq 3201 or #. Qualified students may register for graduate credit at the University of Minnesota)

Ten wk, Sec 50, W, 6:20-8:50, EltH N119

Psy 5701 PERSONNEL AND INDUSTRIAL PSYCHOLOGY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Application of principles of individual differences and psychological measurement to problems of recruiting, selecting, evaluating, and training members of ongoing organizations. Topics include job analysis, job behavior description, performance measurement, selection and placement strategies, minority group employment, and utility of organizational strategies in the selection and occupational placement of persons. (Prereq 3801 or equivalent, 8 cr in psychology, or #. Qualified students may register for graduate credit at the University of Minnesota)

Ten wk, Sec 50, M, 6:20-8:50, EltH N119

(See also Industrial Relations)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Public Health (PubH)

(A302 Mayo: 624-6669)

Textbooks for most PubH courses are available at University of Minnesota Bookstore—Health Sciences (625-8600)

Thirteenth Annual Summer Occupational Health and Safety Institute August 21 to September 1, 1995

This intensive, interdisciplinary course of study is designed for professionals currently or soon-to-be practicing in the field of occupational health and safety. Fourteen individual, graduate-level courses will be offered over the two-week period on the Minneapolis campus.

Courses include: Agricultural Health and Safety, Ergonomics in Occupational Health, Industrial and Occupational Toxicology, Survey of Industrial Hygiene, Introduction to Health Risk Assessment, Introduction to Occupational Safety, Occupational Health Seminar: Cumulative Trauma Disorders, Principles in Occupational Epidemiology I, Principles in Occupational Epidemiology II, Principles of Management in Health Services Organizations, Theory and Practice of Occupational Health, Introduction to Occupational Medicine, Ventilation Control of Occupational Hazards, and Topics in Risk Communication. *Application is being made for Category 1 credit of the Physician's Recognition Award of the American Medical Association. Courses 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)

Stephen Feinstein, Visiting Professor of Jewish Studies

Caesar E. Farah, Professor of African and Afro-American Studies

Balkacem Saadallah, Visiting Professor

David Shupe, Lecturer

Tzvee Zahavy, Professor

ReIS 1034 INTRODUCTION TO JUDAISM. 4 credits, §3034, §JwSt 1034, 3034, tuition*: Resident \$294; Non-resident \$852.60.

Concepts, movements, and institutions in the development of classical Judaism, as manifested in the literature and festivals of the Jewish people from Second Commonwealth times to the present. (No prereq. Meets concurrently with 3034, JwSt 1034, 3034)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 240, Zahavy

(See also CSch 0292, Exploring Ancient Israel: A Walk Through Time)

ReIS 1036 THE RELIGION OF ISLAM. 4 credits, §MELC 1536, tuition*: Resident \$294; Non-resident \$852.60.

The rise of Islam in historical context; the role of Muhammad, Koran traditions; fundamentals and observances of the faith; sectarian movements; the spread of Islam into Asia, Africa, and America; reformist movements and current trends. (No prereq. Meets concurrently with MELC 1536)

First 5 wk, Sec 50, MW, 6:20-8:50, BlegH 105, Saadallah

ReIS 3034 INTRODUCTION TO JUDAISM. 4 credits, §1034, §JwSt 1034, 3034, tuition*: Resident \$308; Non-resident \$893.20. (IS)

See course description for ReIS 1034. (No prereq. Meets concurrently with 1034, JwSt 1034, 3034)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 240, Zahavy

ReIS 3201 THE BIBLE: NARRATIVE TEXTS. 4 credits, §ANE 1001, 3001, tuition*: Resident \$308; Non-resident \$893.20.

Survey of literary and historical narrative texts from: Pentateuch, Joshua, Judges, Samuel, and Kings. Reading of extensive selections from Bible and secondary materials discussing literary background of the texts. (No prereq. Meets concurrently with ANE 1001, 3001)

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

RelS 3541 THE HOLOCAUST. 4 credits, §JwSt 3521, tuition*: Resident \$308; Non-resident \$893.20.

Nazi destruction of Jewish life in Europe, 1933-45. Historical, social background of European Jewish communities. Anti-Semitism and Nazism. Ghettoes under Nazi rule; social and cultural organization, government. Nazi terror and destruction; Jewish resistance; historical consequences. (No prereq. Meets concurrently with JwSt 3521)

Second 5 wk, Sec 50, TTh, 6:20-8:50, FolH 104, Feinstein

RelS 3960 PERSPECTIVES AND PARADIGMS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Individual perspectives and social/organizational paradigms are examined, as well as their capacity both to make possible and to limit what can be thought, imagined, and accomplished. To what extent do perspectives and paradigms create their own boundaries, within which newly encountered concepts seem understandable, persuasive, and self-evident and outside of which they seem meaningless and incomprehensible? If they have such a self-reinforcing stability, how is it that perspectives sometimes do change and paradigms sometimes do shift? In addressing these questions, the class will draw on numerous examples from religion and culture and will explore the implications of the answers for understanding these aspects of experience. (Prereq jr or sr or #. Meets concurrently with 5960)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 134, Shupe

RelS 5960 PERSPECTIVES AND PARADIGMS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

See course description for RelS 3960. (Prereq jr or sr or grad student or #. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with 3960)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 134, Shupe

Research Explorations

(See page 113)

Rhetoric (Rhet)

(201 Haecker: 624-3445)

College of Agriculture

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

Sandra J. Becker, Professor
J. Michael Bennett, Associate Professor
JoAnn DeVries, Associate Librarian
David Lett, Teaching Assistant
James Mathewson, Teaching Assistant
Victoria Mikelonis-Paraskov, Professor
Billie J. Wahlstrom, Professor
Keynen Wall, Teaching Assistant

Rhet 1104 LIBRARY RESEARCH METHODS. 1 credit, tuition*: Resident \$73.50; Non-resident \$213.15.

On-site and interactive video instruction in information retrieval techniques to strengthen skills in using the library. Students work independently to satisfactorily complete all exercises and problem-solving assignments. Students must attend an initial orientation session. Computer-assisted instruction. **Must be taken S-N.** (No prereq. Limited to 30)

Ten wk, ★Sec 50, W, 5-5:50, ClaOff 145, StP Campus, DeVries

Rhet 1151 WRITING IN YOUR MAJOR. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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 20)

Ten wk, ★Sec 50, T, 6-8:30, ClaOff 17 (Macintosh Lab), StP Campus, Mathewson

Rhet 1222 PUBLIC SPEAKING. 4 credits, tuition*: Resident \$346; Non-resident \$1003.40.

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, Wall

Ten wk, ★Sec 51, W, 6-9:20, CentLib 6, StP Campus, Bennett

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Rhet 1441 COLLEGE READING AND LEARNING SKILLS. 4 credits, tuition* (includes \$3 course fee): Resident \$349; Non-resident \$1006.40.

Lecture and individual and small group practice in developing speed, comprehension, retention, and flexibility in reading college assignments; clarity and precision in written expression; accurate and effective listening; control of communication-related anxiety, including test-taking; vocabulary power. (No prereq)

Ten wk, Sec 50, T, 6-9:20, FordH 120, Bennett

Rhet 3562 WRITING IN YOUR PROFESSION. 4 credits, tuition*: Resident \$346; Non-resident \$1003.40. (IS)

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 20)

First 5 wk, ★Sec 50, MTh, 6-8:30, HckrH 312, StP Campus, Becker

Ten wk, ★Sec 51, Th, 6-8:30, ClaOff 17 (Macintosh Lab), StP Campus, Lett

Rhet 5573 GRANT PROPOSAL. 3 credits, tuition*: Resident \$259.50; Non-resident \$752.55; Resident Graduate credit \$321; Non-resident Graduate credit \$642; Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

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, 4-6:30, HckrH 302, StP Campus, Mikelonis-Paraskov

Rhet 8525 TOPICS IN CULTURE AND COMMUNICATION: TECHNICAL COMMUNICATION LAW AND ETHICS. 3 credits, tuition*: Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

Examines legal and ethical issues in scientific and technical communication. Explores issues of access, intellectual property, product liability, safety

labeling, ANSI and ISO standards, and codes of ethics. Emphasis on ethical and legal dimensions of new communication technologies. (Prereq STC or RSTC graduate or #. Open only to students admitted to the University of Minnesota Graduate School. Limited to 12)

Ten wk, ★Sec 50, W, 4-6:30, HckrH 302, StP Campus, Wahlstrom

Scandinavian Languages and Literature (Scan)

(205 Folwell Hall: 625-2080)

College of Liberal Arts

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

William Mishler, Associate Professor

Scan 3505 SCANDINAVIAN FICTION FROM 1890 TO PRESENT. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Examined in context of breakdown of traditional forms and changing concepts of "reality." (No prereq)

First 5 wk, Sec 50, MW, 6:20-8:50, FolH 214, Mishler

Secondary Education (SeEd)

(125 Peik Hall: 625-6372)

College of Education

(Department of Curriculum and Instruction)

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

No SeEd Extension classes offered summer 1995

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)

Megan Morrissey, Instructor

Maura Sullivan, Instructor

Victoria VanSlyke, Instructor

Esther Wattenberg, Professor

Oliver Williams, Assistant Professor

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

SW 5349 and 5601 meet in the Employee Development Classroom [Level A of the Hennepin County Government Center]. Enter the building on the north side of 6th Street, under the skyway; take the escalator downstairs to Level A. Parking usually is available after 4 p.m. weekdays in the Hennepin County underground garage for \$2 maximum.

SW 5349 SOCIAL WELFARE IN AMERICA. 4 undergraduate credits, 3 graduate credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$321; Non-resident Graduate credit \$642; Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

Advanced survey of social services, public policies, and profession of social work—colonial to present. Issues include dependency, deviancy, crime, social security, public health, social reform, functions of public and voluntary institutions (charities, settlements). (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Limited to 20)

First 5 wk, ★Sec 50, MW, 4:45-7:45, Henn Co Govt Ctr, Morrissey

SW 5601 ETHNO-CULTURAL CONCEPTS IN SOCIAL WORK PRACTICE. 4 undergraduate credits, tuition*: Resident \$308; Non-resident \$893.20. 3 graduate credits, tuition*: Resident Graduate credit \$321; Non-resident Graduate credit \$642; Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

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, Williams

SW 5970 INDEPENDENT STUDY IN SOCIAL WORK. Credits arr, tuition* each credit: Resident \$77; Non-resident \$223.30; Resident Graduate credit \$107; Non-resident Graduate credit \$214; Resident Graduate School credit \$183.75; Non-resident Graduate School credit \$404.25.

Independent study in areas of special interest to students and faculty. (No prereq. 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 \$183.75; Non-resident Graduate School credit \$404.25.

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 \$183.75; Non-resident Graduate School credit \$404.25.

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 \$183.75; Non-resident Graduate School credit \$404.25.

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

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

SW 8121 SOCIAL POLICY AND DELIVERY SYSTEMS FOR FAMILY AND CHILDREN'S SERVICES. 3 credits, tuition*: Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

Application theoretical social policy framework to goals, tasks, organization, and delivery arrangements of programs serving social welfare of families and children. (Prereq 5111. Open only to students admitted to the University of Minnesota Graduate School. Limited to 25)

First 5 wk, ★Sec 50, TTh, 4-7, FordH 150, Wattenberg

SW 8406 SUPERVISION AND CONSULTATION. This 3-credit course will be held in Moorhead June 12-16, and in Rochester June 19-23. Students must be admitted to the MSW program or have permission of the instructor to enroll. Graduate credit available. For registration materials, tuition, course description, and further information, telephone the School of Social Work at (612) 624-5888, Nancy Johnston at (612) 624-1893, or Penny Piper at (612) 624-3577.

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)

Jeffrey Broadbent, Assistant Professor
William Brustein, Professor
David Cooperman, Professor
Robert Fulton, Professor
Joel Nelson, Professor

Soc 1001 INTRODUCTION TO SOCIOLOGY. 4 credits, tuition*: Resident \$294; Non-resident \$852.60. (IS)

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)

First 5 wk, Sec 50, TTh, 6-8:30, HHHctr 25, Broadbent

Second 5 wk, Sec 51, MW, 6-8:30, BlegH 255, Fulton

Soc 1003 SOCIAL PROBLEMS. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

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, MW, 9-11:30 a.m., MacP.

Offered through Continuing Education for Women

Soc 3214 UNDERSTANDING EVERYDAY LIFE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Behaviors (activities, personal associations), orientations (values, attitudes, beliefs), and personal interpretations of "typical" individuals; their relationships to social characteristics; the effects of transitions—anticipated (e.g., educational/occupational choice, marriage) and unexpected (e.g., unemployment, illness). (Prereq soph, jr, or sr)

Second 5 wk, Sec 50, TTh, 6-8:30, BlegH 120, Fulton

Soc 3401 PRINCIPLES OF SOCIAL ORGANIZATION. 5 credits, tuition*: Resident \$385; Non-resident \$1116.50.

How and why social organization is possible. Major concepts and theories of social structure, primary forms of social organization (groups, communities, networks, formal organizations), basic social processes (integration, differentiation, regulation, change), and how social organization evolves from individual decision making. Course content varies. Lectures meet concurrently. (Prereq 1001, 3801 or equivalent. Limited to 20)

Second 5 wk, ★Sec 50, Lect MW, 6-8, RarigC 616, Nelson; Lab MW, 4:45-5:45, RarigC 616

Second 5 wk, ★Sec 51, Lect MW, 6-8, RarigC 610, Nelson; Lab MW, 8:15-9:15, RarigC 610

Soc 3405 INEQUALITY: INTRODUCTION TO STRATIFICATION. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Inequality—causes, dimensions, and consequences; cross-national patterns of inequality; relationship between economic and political inequality; role of schools in transmission of inequality; public policies affecting inequality. (Prereq 1001)

First 5 wk, Sec 50, TTh, 6-8:30, BlegH 10, Brustein

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Soc 3481 MODERN JAPANESE SOCIETY. 4 credits, \$EAS 3481, tuition*: Resident \$308; Non-resident \$893.20.

Japanese social institutions including family, education, business and labor relations, government, and the status of women. How they differ from the West and have contributed to Japanese economic success. (Prereq 1001 or #. Meets concurrently with EAS 3481)

Second 5 wk, Sec 50, MW, 6-8:30, BlegH 155, Broadbent

Soc 5703 SOCIAL LIFE AND CULTURAL CHANGE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Theories of social change; methodological problems. Comparative social thought and structure of antiquity as basic data for analysis. (Prereq 8 cr in social science or #. Qualified students may register for graduate credit at the University of Minnesota)

First 5 wk, Sec 50, MW, 6-8:30, BlegH 260, Cooperman

Soil Science (Soil)

(439 Borlaug Hall: 625-1244)

College of Agriculture

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

Terence Cooper, Professor of Soil Science
John Schultz, Graduate Assistant

(See also REX 0104, The Impact of Soil Fertility on Crop Productivity)

Soil 5114 INTRODUCTORY ENVIRONMENTAL EARTH SCIENCE FOR TEACHERS. 3 credits, \$1020, tuition*: Resident \$259.50; Non-resident \$752.55; Resident Graduate credit \$321; Non-resident Graduate credit \$642; Resident Graduate School credit \$551.25; Non-resident Graduate School credit \$1212.75.

Basic concepts of introductory environmental earth science especially designed for teachers. Lecture, laboratory discussion, and field trips. Teachers will have opportunities to collect materials and prepare hands-on laboratory experiments for their students

in soil science, biology, chemistry, elementary science, earth science, and environmental science. (Prereq 1 course in college chemistry, a degree in education or #. Qualified students may register for graduate credit at the University of Minnesota. Limited to 25)

Spec Term, ★Sec 50, June 19, 20, 21, 22, 23, 9 a.m.-3, BorH 375 (lecture), BorH 243 (lab), StP Campus, Cooper, Schultz

South Asian and Middle Eastern Studies

See Area Studies Programs, page 44, and Institute of Languages and Literatures, page 71.

Spanish (Span) and Portuguese (Port)

(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)

René Jara, Professor
Carol A. Klee, Associate Professor
Louise Mirrer, Professor and Chair
Francisco Ocampo, Assistant 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

(See also REX 0517, A Map of Mariners in 18th-Century Spain)

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.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Span 0221 READING SPANISH. No credit, tuition*: \$294. (IS)

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 234

Span 1103 BEGINNING SPANISH. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

Basic listening, speaking, reading and writing skills. Stress on the development of communicative competence. Some cultural readings. (Prereq 1102. Limited to 25)

Ten wk, ★Sec 50, MW, 6-8:50, FolH 246

Span 1104 INTERMEDIATE SPANISH. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75. (IS)

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, WullH 220

Ten wk, ★Sec 51, TTh, 6-8:50, FolH 218

Span 1105 INTERMEDIATE SPANISH. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

For description, see 1104. (Prereq 1104 or #. Limited to 25)

Ten wk, ★Sec 50, TTh, 6-8:50, FolH 246

Second 5 wk, ★Sec 51, MTWTh, 6:10-8:50, FolH 208

Span 1106 INTERMEDIATE SPANISH. 5 credits, tuition*: Resident \$367.50; Non-resident \$1065.75.

For description, see Span 1104. (Prereq 1105 or #. Limited to 25)

Ten wk, ★Sec 50, MW, 6-8:50, FolH 234

Span 3002 READING FOR SPEED AND COMPREHENSION. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Sharpen reading skills, expand vocabulary, improve comprehension. Variety of practical and literary materials will be read; discussion of readings, student presentations, short papers. (Prereq 1106 or equivalent. Limited to 15)

Second 5 wk, ★Sec 50, MW, 6-8:50, FolH 114

Span 3614 DON QUIXOTE: A STUDY OF LOST ILLUSIONS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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 50

Span 3615 LITERATURE AND FILM. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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 50

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)

Rosita Albert, Associate Professor
George L. Shapiro, Professor

Spch 1101 FUNDAMENTALS OF SPEECH COMMUNICATION: ORAL COMMUNICATION. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Basic understanding of oral communication processes. Study and application of essential elements in oral communication. Consideration of criticism and response to oral discourse. Opportunities for individual speaking. (No prereq. Limited to 23)

First 5 wk, ★Sec 50, MW, 6-8:30, FolH 114

First 5 wk, ★Sec 51, TTh, 6-8:30, FolH 134

Second 5 wk, ★Sec 52, TTh, 6-8:30, FolH 134

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

Spch 1313 ANALYSIS OF ORAL ARGUMENT. 4 credits, tuition*: Resident \$294; Non-resident \$852.60.

Strategies for analyzing and evaluating arguments received aurally. Problems in listening and responding to argument. (No prereq. Limited to 23)
First 5 wk, ★Sec 50, TTh, 6-8:30, FolH 214
Second 5 wk, ★Sec 51, MW, 6-8:30, FolH 318

Spch 3411 SMALL GROUP COMMUNICATION PROCESSES. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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 419
Second 5 wk, ★Sec 51, TTh, 6-8:30, FolH 234

Spch 3441 COMMUNICATING IN ORGANIZATIONS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

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 1102 or equivalent. Limited to 22)

Second 5 wk, ★Sec 50, MW, 6-8:30, FolH 240

Spch 3451 INTERCULTURAL COMMUNICATION: THEORY AND PRACTICE. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Theories of and factors influencing intercultural communication. Development of effective intercultural communication skills. (Prereq planning an intercultural experience. Limited to 20)

Second 5 wk, ★Sec 50, MW, 6-8:30, FolH 426, Albert

Spch 5414 COMMUNICATION AND COMMUNITY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

Authority and power in task-oriented groups. Tavistock-type, small group, intergroup, and large group laboratory experiences. Verbal and nonverbal processes that operate in and among groups to facilitate or inhibit effective leadership and followership. **Must be taken S-N.** (Prereq 3411 or #. Qualified students may register for graduate credit at the University of Minnesota. A joint Day/Extension class limited to 10 Extension students)
Spec Term, ★Sec 50, MTWThF, 4:15-6:15; SaSu, 9 a.m.-5:30, June 13-27, FolH 306, Shapiro

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 \$308; Non-resident \$893.20.

Elementary probability and probability distributions, sampling and elements of statistical inference. (Prereq differential and integral calculus)

Ten wk, Sec 50, T, 6:15-8:45, Phys 166

Study Skills

See Learning and Academic Skills, page 75. See also pages 107-108.

Textiles and Clothing (TexC)

All TexC courses are now DHA courses; see Design, Housing, and Apparel (DHA), page 53.

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Vocational and Technical Education (VoEd)

(R350 Vocational/Technical Building: 624-1221)

College of Education

Vocational and Technical Education

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

**National Youth Leadership Council's
Sixth Annual Summer Service-Learning
Teacher Institute
July 24-29, 1995**

SPECIAL TOPICS IN INSTRUCTION: SUMMER SERVICE-LEARNING TEACHER INSTITUTE (VoEd 5100, 3 credits). Experience-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. *Residency required at Wilder Forest Retreat Center, Stillwater, for six-day course.* (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, and details of course content, contact the National Youth Leadership Council, 1910 W. Cty Rd B, Roseville, MN 55113; telephone (612) 631-3672.

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)

Dorothy Loeffler, Professor of Educational Psychology

Patricia Faunce, Professor

Amey Kaminsky, Associate Professor

Judith Katz, Instructor

Pascale Bos, Instructor

Jacquelyn Zita, Associate Professor

Continuing Education for Women (CEW) sections available in the following courses: WoSt 3205, 5205

WoSt 3200 TOPICS IN WOMEN'S STUDIES: WOMEN'S PSYCHOLOGIES. 4 credits (max 12 cr), tuition*: Resident \$308; Non-resident \$893.20.

Culture, race, ethnicity, class, sexual orientation, and age are among factors influencing diverse women's psychologies. They are the lenses for exploring women's developments (psychological, social, physical), women interacting in their environments (work, school, family, community), and women confronting their issues (relationships, achievements, emotional and physical health, violence). (No prereq. Meets concurrently with 5200. Limited to a combined total of 40)

First 5 wk, ★Sec 50, TTh, 5:30-8, FordH 175, Faunce

WoSt 3205 WOMAN: A SENSE OF IDENTITY. 4 credits, \$5205, tuition*: Resident \$308; Non-resident \$893.20.

Exploration of social and psychological factors which inhibit or enhance a woman's continuously developing sense of identity. Learning who you are, what you want, and how to take appropriate action. Exercises in power, body image, goal setting, and assertion skills in difficult situations. Journal writing, small-group work, and a project are part of the class requirements. *No auditors. Students are expected to attend all class sessions.* (No prereq. Meets concurrently with 5205. Limited to a combined total of 34)

Ten wk, ★Sec 50, T, 6:15-9:15, CivMinE 212, Loeffler. *Offered through Continuing Education for Women*

WoSt 3306 U.S. MINORITY WOMEN WRITERS. 4 credits, tuition*: Resident \$308; Non-resident \$893.20.

Analysis of poetry, fiction, and drama written by minority women in the United States. (Prereq 8 cr WoSt or 4 cr WoSt and 4 cr literature, American Studies, Chicano Studies, Afro-American Studies, or American Indian Studies. Limited to 40)

First 5 wk, ★Sec 50, MW, 5:30-8, FordH 150, Bos

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Course Descriptions

WoSt 3400 TOPICS IN COMPARATIVE STUDY OF WOMEN: WOMEN AND POPULAR CULTURE. 4 credits (max 12 cr), tuition*: Resident \$308; Non-resident \$893.20.

Examination of sex roles and stereotypes engendered by popular American culture, including television, "entertainment" films, pop music, magazines, and pornography. Through films, video, audio tapes, and guest speakers, class participants will define ways in which women are used in this culture to amplify and enforce sex roles and stereotypes, and consequently reinforce the status quo. (No prereq. Limited to 40)

Second 5 wk, ★Sec 50, MW, 5:30-8, FordH 150, Katz

WoSt 5200 TOPICS IN WOMEN'S STUDIES: WOMEN'S PSYCHOLOGIES. 4 credits (max 12 cr), tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

See description for WoSt 3200. (No prereq. Meets concurrently with 3200. Qualified students may register for graduate credit at the University of Minnesota. Limited to a combined total of 40)

First 5 wk, ★Sec 50, TTh, 5:30-8, FordH 175, Faunce

WoSt 5205 WOMAN: A SENSE OF IDENTITY. 4 credits, tuition*: Resident \$308; Non-resident \$893.20; Resident Graduate credit \$428; Non-resident Graduate credit \$856; Resident Graduate School credit \$735; Non-resident Graduate School credit \$1617.

See description for 3205. *No auditors. Students are expected to attend all class sessions.* (No prereq. Qualified students may register for graduate credit at the University of Minnesota. Meets concurrently with WoSt 3205. Limited to a combined total of 34) Ten wk, ★Sec 50, T, 6:15-9:15, CivMinE 212, Loeffler. *Offered through Continuing Education for Women*

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)

Mary K. Burnison, Instructor
Mark S. Umbreit, Associate Professor

(See also REX 0511, Youth Development Study)

YoSt 5120 INDEPENDENT STUDY IN YOUTH STUDIES. Credits arr (maximum 12 cr), tuition* each credit: Resident \$77; Non-resident \$223.30; Resident Graduate credit \$107; Non-resident Graduate credit \$214; Resident Graduate School credit \$183.75; Non-resident Graduate School credit \$404.25.

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 \$5 course fee): Resident \$236; Non-resident \$674.90; Resident Graduate credit \$326; Non-resident Graduate credit \$647; Resident Graduate School credit \$556.25; Non-resident Graduate School credit \$1217.75.

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 1, F, 6-9, June 23, July 7, 14; Sa, 9 a.m.-5, June 24, July 8, 15, McNH 386A, StP Campus, Umbreit. *No late fee through June 16.*

YoSt 5401 COMMUNICATING WITH ADOLESCENTS ABOUT SEXUALITY. 3 credits, tuition* (includes \$5 course fee): Resident \$236; Non-resident \$674.90; Resident Graduate credit \$326; Non-resident Graduate credit \$647; Resident Graduate School credit \$556.25; Non-resident Graduate School credit \$1217.75.

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 1, FSaM, 8:30 a.m.-4, July 28, 29, 31, McNH 386A, StP Campus. *No late fee through July 21.*

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

* Tuition definitions of Resident and Non-resident explained on page 10.

Noncredit Courses

Credit courses are listed beginning on page 38.

I. The Compleat Scholar (CSch) and Practical Scholar (PSch)

Telephone 624-8880 for information.

The Compleat Scholar and Practical Scholar programs offer a comprehensive curriculum of University learning without credit. The 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.

The Compleat Scholar (CSch) is a non-credit liberal arts program based on the University curriculum. Its purpose is to give adults an opportunity to continue the pursuit of knowledge beyond their formal education. It is organized into five subject areas: *The Arts; History, Philosophy, Humanities, Etc.; Writing; Literature; and Natural and Physical Sciences*. The term "The Compleat Scholar" is borrowed from Isaak Walton, the 17th-century gentleman author of *The Compleat Angler*. Here the word is used to mean the educated person of eclectic taste, not an authority, but having a curiosity of mind.

The Practical Scholar (PSch) program uses University resources and expertise to help participants solve problems and learn skills in their personal, academic, and work life. The four subject areas are: *University Access; Career Development; Human Development; and Gardening, Finances, Wellness, Etc.*

CSch and PSch courses are scheduled for 1 to 11 meetings and offer stimulating and challenging learning in lecture and discus-

sion formats that do not include grades or exams. Anyone may register for a course. There are no admission or entrance requirements; students need only a desire to learn. Registration in specific classes, however, may require prerequisite courses.

See page 97 for CSch offerings and page 107 for PSch offerings.

See page 111 for Compleat Scholar Week-ends.

Continuing Education for Women

The University of Minnesota has a long history of involvement in women's education. Continuing Education for Women (CEW) continues this tradition by offering quality, innovative, and timely programs using University resources. As part of the Compleat and Practical Scholar curriculum, CEW regularly offers noncredit courses to meet women's needs and interests in an ever-changing society.

CEW also offers credit classes in times, formats, and locations designed to accommodate students' needs. Most credit classes meet once a week during the day at off-campus locations. The following credit courses are being offered through CEW this summer:

GC 1132	Biological Science: The Human Body
Soc 1003	Social Problems
WoSt 3205/5205	Woman: A Sense of Identity

For information on CEW credit classes, call 624-5267.

Cooperative Noncredit Courses

The Minneapolis Institute of Arts, Walker Art Center, Bell Museum of Natural History, Minnesota Zoo, Woman's Club of Minneapolis, Frederick R. Weisman Art Museum, Minnesota Museum of American Art, and Minnesota Landscape Arboretum all cooperate with the Compleat and Practical Scholar to offer noncredit learning opportunities. Classes usually meet at the respective locations of these organizations, and a tuition discount is available for current members (see tuition section below). Cooperative courses offered this summer are:

Walker Art Center	CSch 0108
Mpls Institute of Arts	CSch 0115, 0117, 0118
Bell Museum	CSch 0506, 0512, 0518
Minnesota Zoo	CSch 0593
Landscape Arboretum	CSch 0179, 0180. PSch 0951, 0956, 0957, 0965, 0966

Woman's Club of Minneapolis	CSch 0114, 0441
Minnesota Museum of American Art	CSch 0109
Frederick R. Weisman Art Museum	CSch 0206

Call 624-8880 to request maps and directions to off-campus classroom sites.

II. University Research Explorations (REX)

Telephone 624-5092 for information.

Join a University of Minnesota research team and share in the spirit of discovery. The Research Explorations program provides the general public with unique experiential learning in diverse fields—the sciences, humanities, education, health sciences, agriculture, and others.

See page 113 for complete REX information and project descriptions.



COMPLEAT & PRACTICAL SCHOLAR

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 7. Late registration dates are listed with each course description. See page 111 for Compleat Scholar Weekend registration information.

Books for Compleat and Practical Scholar Courses

When books are suggested 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 30.

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 first day of in-person registration. For nonlimited classes, employees may register during the regular registration periods.

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, Bell Museum, Minnesota Zoo, Woman's Club of Minneapolis, Frederick R. Weisman Art Museum, 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 or by writing to Extension Classes, 101 Westbrook Hall, University of Minnesota, 77 Pleasant Street S.E., Minneapolis, MN 55455. By doing so, they will, if eligible, receive a refund according to the following schedule:

1 session class	100% before class meets 0% after class has met
2 session class	100% before class meets 0% after first class
3-4 session class	100% before class meets 50% before second class 0% after
5 or more sessions	100% before class meets 75% before second class 50% before third class 0% after

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 class. Registrants who fail to attend or to cancel properly are liable for the entire fee. Late fees are not refundable in any case.

The Compleat Scholar summer course offerings

The Arts

CSch 0101 VINCENT VAN GOGH: HIS ART AND LETTERS. No credit, \$68 (age 62, \$61.20).

Survey Van Gogh's art from his early work up to his untimely death. This course interprets his paintings from the standpoint of stylistic changes, from his early realist period in the Borinage to his late expressionist works in Arles. Also, explore Van Gogh's relationship with Paul Gauguin and Emile Bernard, as well as his early fascination with the hard labor of peasants and his later affection for Japanese prints. Review the prolific correspondence between Vincent and brother Theo, letters unique

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

because they include comments about Vincent's paintings. (Limited to 40)

Spec Term, ★Sec 50, M, 6:30-8:30, June 12-July 10 (4 meetings—no class July 3), JonesH 207B. *No late fee through June 5.*

(Elizabeth Menon completed a doctorate in art history at the University of Minnesota. Her special interest is in graphic arts of 19th-century France, a topic about which she has published several articles)

CSch 0108 PHOTOGRAPHY AND THE DOCUMENT. No credit, \$34 (age 62 and WAC members, \$30.60).

Examine the complex history and relationship between photography and documentary while reviewing the Walker Art Center's "Viewpoints: Paul Shambroom" exhibition. Explore the relationship between photography and practices of documentation throughout the history of photography, from the science of photography to the photojournalism work of Louis Hine, Jacob Riis, and Dorothea Lange to the addition of a more aesthetic focus as seen in the work of Henri Cartier Bresson and Diane Arbus. Address such questions as, What gives the document authority? What are the limitations and politics of photographic truth? Discuss contemporary artists who appropriate or challenge the documentary tradition, including Andy Warhol, Gerhard Richter, and Martha Rossler. (Offered in cooperation with Walker Art Center. Both WAC and Compleat Scholar will accept registrations. Limited to a combined total of 50)

Spec Term, ★Sec 50, Th, 6-8, Aug. 3, 10 (2 meetings), Walker Art Center, Lecture Room, Vineland Pl., Mpls. *No late fee through July 27.*

(Douglas Fogle is a doctoral candidate in the history of consciousness program at the University of California at Santa Cruz. He formerly taught contemporary visual culture in the Board of Studies in Art History at UC Santa Cruz and is currently an NEA curatorial/educational intern at Walker Art Center)

CSch 0109 THE WORDS IN THE WORKS. No credit, \$51 (age 62 and MMAA members, \$45.90).

Using provocative art objects from "In So Many Words: Words and Images in Contemporary Art," an exhibit at the Minnesota Museum of American Art, explore how artists reshape, recharge, and reinterpret word meanings. Why does a seemingly benign statement in a newspaper become an explosive, politically charged clarion call in another context? How does language foster community—or deny it? What are the elements, public and personal, that influence our responses to words in works of art? (Offered in cooperation with the Minnesota Museum of American Art. Limited to 25)

Spec Term, ★Sec 50, Th, 6:30-8:30, June 15-29 (3

meetings), Minnesota Museum of American Art, Room 223, Landmark Center, 5th at Market, StP. *No late fee through June 8.*

(William R. Hegeman is the communications director of the Minnesota Museum of American Art. An award-winning writer, he is a former art critic for the Minneapolis Star Tribune, regional correspondent for ARTnews magazine, and contributing editor of the New Art Examiner)

CSch 0114 MANET: FATHER OF MODERNISM? No credit, \$68 (age 62 and WCM members, \$61.20).

For years a debate has raged about the work of Edouard Manet. Was he the father of modernism with a radically changed point of view or was he simply a painter who never mastered the academic techniques of foreshortening and perspective? Discuss Manet's work as it developed chronologically in four stages in order to evaluate his contribution to the modern art movement. Review Manet's early realist period and his dependence on past artists, his shocking naturalism at the Salon, his interest in the Japanese print, and his late "impressionist" period. (Offered in cooperation with the Woman's Club of Minneapolis. Limited to 35)

Spec Term, ★Sec 50, M, 10 a.m.-12, July 17-Aug. 7 (4 meetings), Woman's Club of Mpls, 410 Oak Grove. *No late fee through July 10.*

(Elizabeth Menon completed a doctorate in art history at the University of Minnesota. Her special interest is in the graphic arts of 19th-century France, a topic about which she has published several articles)

CSch 0115 RIVERS MERGING: CROSS-CULTURAL CONVERSATIONS WITH ASIAN AMERICAN AND OTHER ARTISTS. No credit, \$50 (age 62 and MIA members, \$45).

A cross-cultural illumination of art and community, this course is offered in conjunction with the Minneapolis Institute of Arts exhibition "Rivers Merging" (May 12-July 16). The exhibition is a project of the Minnesota Artists Exhibition Program at the MIA and the Asian American Renaissance. Designed as an inclusive, interdisciplinary exhibition of collaborative work, the show explores complex issues of representation and identity. It focuses on art not only as a set of objects, but as a process of inquiry—through performances, demonstrations, installations, and exhibits—by 10 teams of artists using various media. The course is structured as a dialogue between exhibiting artists and class participants, and the conversation is framed and moderated by guest curator Kinji Akagawa. (Offered in cooperation with the Minneapolis Institute of Arts. Both MIA and Compleat Scholar will accept registrations. Limited to a combined total of 50)

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

Spec Term, ★Sec 50, Th, 6-8:30, June 15, 22 (2 meetings), Mpls Institute of Arts, Whittier Room, 2400 S. 3rd Ave. *No late fee through June 8.*

(Kinji Akagawa is an artist, professor of fine arts at the Minneapolis College of Art and Design, and guest curator of the exhibition "Rivers Merging" at the Minneapolis Institute of Arts)

CSch 0117 ITALIAN ART OF THE BAROQUE AND ROCOCO: DRAWINGS AND PAINTINGS IN CONTEXT. No credit, \$31 (age 62 and MIA members, \$27.90).

During the 16th and 17th centuries, the classical Western tradition established in the Italian Renaissance brought Italy to the European artistic forefront. Artists from France, Spain, Britain, and other European countries traveled to Italy to study the sources of antiquity firsthand and to learn classical drawing methods. This class studies the drawing techniques, methods, and composition of the Italian masters of the baroque and rococo in relation to various paintings and murals of the period. Particular focus is placed on the work of Annibale and Lodovico Carracci, Parmigianino, Tintoretto, Giovanni Barbieri, Reni, Castiglione, Bernini, Salvatore Rosa, and Andrea Sacchi. (Offered in cooperation with the Minneapolis Institute of Arts. Both MIA and Compleat Scholar will accept registrations. Limited to a combined total of 50)

Spec Term, ★Sec 50, Th, 7-9, July 20, 7:30-9, July 27 (2 meetings), Mpls Institute of Arts, Auditorium, 2400 S. 3rd Ave. *No late fee through July 13.*

(Robert Gambone is chair of the Department of Art and Art History at the College of St. Catherine. He completed his doctorate in art history at the University of Minnesota and has published books, catalogs, and reviews in the field)

CSch 0118 RICHARD AVEDON: "EVIDENCE" AS PORTRAIT, PORTRAIT AS EVIDENCE. No credit, \$53 (age 62 and MIA members, \$47.70).

Over five decades Richard Avedon has forged a career attracting both accolades and accusations. Held in conjunction with the retrospective exhibition "Richard Avedon: Evidence 1944-1994" at the Minneapolis Institute of Arts (July 9-Sept. 17), this course offers a profile of Avedon and his work. Further, it considers the informed, collaborative nature of celebrity, and how Avedon has used photography to construct and define heroic ideas of both the artist and his subject. Richard Avedon describes the photographic portrait as a "picture of someone who knows he's being photographed." This series of lectures explores complex issues of portraiture that elicit such powerful, and sometimes

oppositional, responses to his work. (Offered in cooperation with the Minneapolis Institute of Arts. Both MIA and Compleat Scholar will accept registrations. Limited to a combined total of 50)

Spec Term, ★Sec 50, Th, 6:30-8:30, Aug. 10-24 (3 meetings), Mpls Institute of Arts, Auditorium, 2400 S. 3rd Ave. *No late fee through Aug. 3.*

(George Slade is a photographic historian, curator, and writer who serves as library assistant at Walker Art Center)

CSch 0126 AN INTRODUCTION TO CLOWNING. No credit, \$86 (age 62, \$77.40).

Explore the world of clowning by appreciating the creative energy existing within yourself and others while participating in sound and movement exercises used by master artists and teachers. Immerse yourself in the exploratory process, encourage risk taking in yourself and others, and enhance your understanding of the zany and serious components involved in clowning. Use of the text *Be A Clown —The Complete Guide to Instant Clowning* by Turk Pipin, extensive laboratory play, and some out-of-class practice facilitate the learning process. (Limited to 15)

Spec Term, ★Sec 50, T, 6:30-8:30, July 11-Aug. 8 (5 meetings), NMA, Dance Room 5. *No late fee through July 3.*

(Jeffrey Cookson holds an M.F.A. in acting from the University of Missouri and has had both free-lance and academic experience in clowning)

CSch 0127 REASON IN MADNESS: KING LEAR ON PAGE AND ON STAGE. No credit, \$83 (age 62, \$74.70).

Is *King Lear* the greatest drama ever written? So say many critics and directors. Answer this question for yourself as you study Shakespeare's text, analyze video clips, and attend the Guthrie Theater's production. Learn how to apply principles of drama criticism to this moving and apocalyptic tragedy as you write your own review of the play and share that review with your instructor and peers. **Come prepared to discuss act one at the first class session.** Although you are expected to attend the Guthrie's production (admission cost not included in tuition), you need not attend the play as a group. (Offered in cooperation with the Guthrie Theater. Limited to 30)

Spec Term, ★Sec 50, W, 6:30-8:30, June 14-July 12 (5 meetings), LindH 215. *No late fee through June 7.*

(Maggi Kramm's theatre reviews and profiles have appeared in American Theater, Variety, Theatre Week, and other theatre publications. She earned her doctorate in English and has taught classes on Shakespeare at the University of Minnesota)

Noncredit Courses

CSch 0134 CELEBRATION OF MUSIC: SOMMERFEST 1995. No credit, \$64 (age 62, \$57.60).

The Minnesota Orchestra's annual Sommerfest has become a summertime musical tradition of Minneapolis. It includes concerts at Orchestra Hall, dancing on Peavey Plaza, food, and colorful outdoor festivities. Prepare for the celebration by exploring a selection of the gala music on this year's program. Hear the music, learn of composers' lives, and discover the social contexts for their compositions.

Spec Term, Sec 50, M, 6:15-8:15, June 12-July 3 (4 meetings), FergH 149. *No late fee through June 5.*

(DonnaMae Gustafson holds a Ph.D. in music from the University of Minnesota. She has taught courses about the music of many historical periods and given previews for St. Paul Chamber Orchestra audiences. Her research includes 16th-century Italian music and theatre)

CSch 0147 CLASSIC HOLLYWOOD CINEMA, 1915-1950. No credit, \$86 (age 62, \$77.40).

Investigate the era of films produced by the great Hollywood studios. These cultural commodities produced from 1915 to 1950 developed into "master narratives," or cinematic norms of proper storytelling against which other filmmaking has been and sometimes continues to be judged. Also, review films that challenged this emergent norm from within the studio system, such as film noir, and examine the significance of "classic Hollywood cinema" as a frame of reference for comparison and contrast with filmmaking today. Text: *Ideology and Cinematography* by Michael Cormack (Limited to 25)

Spec Term, ★Sec 50, Th, 6:30-8:30, June 15-July 13 (5 meetings), LindH 303. *No late fee through June 8.*

(John Mowitz teaches film history and theory in the Departments of English and Cultural Studies and Comparative Literature at the University of Minnesota. His areas of interest include the relationship between social history and the cinema, the relationship between sound and image in film, and alternative filmmaking practices)

CSch 0156 PHOTOGRAPHING THE URBAN LANDSCAPE. No credit, \$82 (age 62, \$73.80).

The Twin Cities area is rich with photographic subjects not found on the picture postcard rack. First examine the work of photographers who have profiled the urban landscape. Then create your own photographs on three half-day field trips (**June 17, 24, 25; participants provide own transportation and may choose to carpool.**) Finish with a follow-up session for viewing and critiquing work. Includes an opportunity to do some nighttime photography. All classes are held at instructor's studio. (Limited to 15)

Spec Term, ★Sec 50, W, 6:30-8:30, June 14-28 (3 meetings plus 3 field trips), Second Floor Studio, 2800 Lyndale Ave S., Mpls. *No late fee through June 7.*

(Chris Faust is an award-winning professional photographer, graphic designer, and recipient of a 1992 McKnight Photography Fellowship. His work has appeared in gallery exhibits and in local and national publications)

CSch 0167 ELECTRONIC IMAGING WORKSHOP: PHOTOSHOP. No credit, \$575 plus \$75 special fee. Total \$650 (age 62, \$517.50 plus \$75 special fee. Total \$592.50).

Designed for photographers, designers, artists, and communication specialists, this hands-on course provides a firm foundation in digital imaging. Use Adobe Photoshop in a fully equipped Power Macintosh computer lab. Gain experience in digital capture through scanning, PhotoCD, and digital cameras. Perform correction, manipulation, and creative work on your own images and explore numerous output options. Discuss principles and theories of digital imaging, including color theory, resolution, photographic and pre-press formats, and CD-ROM, as well as aesthetic and design concerns through critiques of class projects. Visit local digital imaging facilities during two evening field trips. Includes training materials and numerous handouts. (Familiarity with Macintosh or Windows computers essential; some experience with Photoshop desirable. Limited to 14)

Spec Term, ★Sec 50, MTWThF, 9 a.m.-5, June 12-16 (5 meetings plus 2 field trips), BioSci 18. *No late fee through June 5.*

(David Husom is an assistant professor at the University of Minnesota, where he teaches courses in photography and digital imaging for the Compleat and Practical Scholar. His photographs have appeared in numerous publications, including Aperture magazine. Ann-Marie Rose has taught color separation and computer imaging for nine 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 speakers at numerous conferences. They also do consulting and training, and have written and published educational material, including an interactive CD-ROM, on digital imaging)

CSch 0168 ELECTRONIC IMAGING WORKSHOP: MULTIMEDIA. No credit, \$575 plus \$75 special fee. Total \$650 (age 62, \$517.50 plus \$75 special fee. Total \$592.50).

Multimedia is the hottest and fastest growing area in the field of communications. Designed for photo-

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graphers, designers, artists, and communication specialists, this intensive course provides hands-on experience with multimedia creation on state-of-the-art Power Macintosh computers. Learn how to use Director, Photoshop, Sound Edit, and QuickTime to produce a multimedia presentation. Visit local multimedia facilities during two evening field trips. Although geared to the Macintosh, course material is also relevant to Windows users. Includes critiques of class projects, training materials, and numerous handouts. (Familiarity with Macintosh or Windows computers essential; some experience with imaging software is desired. Limited to 14)

Spec Term, ★Sec 50, MTWThF, 9 a.m.-5, June 19-23 (5 meetings plus 2 field trips), BioSci 18. *No late fee through June 12.*

(See David Husom's and Ann-Marie Rose's biographies in CSch 0167)

CSch 0179 WATERCOLOR: LANDSCAPE PAINTING WORKSHOP. No credit, \$57 (age 62 and Arboretum members, \$51.30). *Includes lunch.*

Sketch and paint landscapes in the beautiful Minnesota Landscape Arboretum. Includes watercolor techniques demonstration, individual attention, and the option of painting indoors or outside. Lunch available in the tea room. Admission fee to Arboretum waived with course registration receipt. (Offered in cooperation with Minnesota Landscape Arboretum. Limited to 20)

Spec Term, ★Sec 50, Th, 9 a.m.-4, June 29 (1 meeting), Minnesota Landscape Arboretum, Snyder Bldg., Classroom 2, 3675 Arboretum Drive, Chanhassen. *No late fee through June 22.*

(Marija Skutans Netz is an award-winning watercolorist whose paintings are in private and corporate collections. She has taught at the University of Minnesota and is a popular workshop leader and guest speaker)

CSch 0180 WATERCOLOR: FLOWER PAINTING WORKSHOP. No credit, \$57 (age 62 and Arboretum members, \$51.30). *Includes lunch.*

Draw inspiration from the beautiful gardens of the Minnesota Landscape Arboretum. Includes a demonstration of watercolor techniques, individual attention, and the option of painting indoors or outside. Lunch available in the tea room at the Arboretum. Admission fee to Arboretum waived with course registration receipt. (Offered in cooperation with Minnesota Landscape Arboretum. Limited to 20)

Spec Term, ★Sec 50, Th, 9 a.m.-4, July 20 (1 meeting), Minnesota Landscape Arboretum, Snyder Bldg., Classroom 2, 3675 Arboretum Drive, Chanhassen. *No late fee through July 13.*

(Marija Skutans Netz is an award-winning watercolorist whose paintings are in private and corporate collections. She has taught at the University of Minnesota and is a popular workshop leader and guest speaker)

CSch 0181 LANDSCAPE PHOTOGRAPHY WORKSHOP. No credit, \$62 (age 62, \$55.80).

A beginning-level workshop in landscape and nature photography. Includes orientation session for equipment and film review; a half-day Saturday field trip (June 24) featuring short hikes to native prairies, oak savannas, wildlife-rich swamps and creeks, and an 1860s stone-built homestead; and a final session for post-field trip critiques. Covers 35mm camera usage, depth of field, lighting, filters, and exposure. Ample time devoted to individual interests and concerns. (Limited to 16)

Spec Term, ★Sec 50, TW, 6:30-8:30, June 13, 20, July 5 (3 meetings plus field trip), Lutheran Church of the Good Shepherd, 4801 France Ave. S., Edina (park in and enter from south lot). *No late fee through June 6.*

(Hal Faulkner holds an M.F.A. from the University of Minnesota. He has been a photographer for more than 20 years and a teaching assistant at the Ansel Adams photography workshop)

CSch 0182 DRAWING MINNEAPOLIS LANDMARKS. No credit, \$86 (age 62, \$77.40).

Inspiration is a motivational element of art, and Minneapolis offers several inspirational settings. But selecting subject materials from our surroundings is often one of the most difficult components of creating. Learn the compositional skills required to draw at such Minneapolis landmarks as the rose gardens at Lake Harriet, the mausoleum at Lakewood Cemetery, the Minneapolis Sculpture Garden, and one site to be selected by class members. Use a variety of media such as pencil, charcoal, pastel, and watercolor. Benefit from interaction with other students both in the classroom and in stimulating surroundings. First class meets at Washburn Library; other class sites vary by availability. Open to all levels of drawing skill. (Limited to 25)

Spec Term, ★Sec 50, W, 10:15 a.m.-12:15, June 14-19 (6 meetings), Washburn Library, 5244 Lyndale Ave. S., Mpls. *No late fee through June 7.*

(Mary Kubik is an advanced graduate student in the Department of Design, Housing, and Apparel at the University of Minnesota)

CSch 0196 LITTLE TREASURES: LESS KNOWN MUSEUMS IN THE TWIN CITIES. No credit, \$82 plus \$5 special fee. Total \$87 (age 62, \$73.80 plus \$5 special fee. Total \$78.80).

Every museum lover should know about these small gems nestled into various nooks of the Twin Cities metropolitan area: The Bakken Library and Museum of Electricity in Life, Firefighters Memorial Museum, Goldstein Gallery, Schubert Club Museum of Musical Instruments, John H. Stevens House, and the Minnesota Transportation Museum. Visit a museum each week to meet the staff, learn about the museum's history and operation, and receive a behind-the-scenes tour (the Stevens and Transportation museums will be visited on the same day). First class meets at the Bakken Library. (Limited to 20)

Spec Term, ★Sec 50, Th, 10 a.m.-12, June 15-July 13 (5 meetings), The Bakken Library and Museum of Electricity in Life, 3537 Zenith Ave. S., Mpls. No late fee through June 8.

(Jane Marie Litwak is completing a Ph.D. in educational psychology with a minor in museum studies. She has worked at museums in New York, California, Minnesota, and Europe, and is currently employed at the Minnesota History Center as an exhibit evaluator and audience researcher)

History, Philosophy, Humanities, Etc.

CSch 0204 VIKINGS! THE WESTWARD EXPANSION OF NORSE CULTURE. No credit, \$84 (age 62, \$75.60).

Examine the lives of Norsemen in Scandinavia and their North Atlantic colonies during the early medieval period. Slide lectures and archaeological, historical, and literary sources paint an in-depth picture of community, religion, economy, literary traditions, legal patterns, and social and gender structures. The final class uses an Icelandic saga, *The Saga of Gisli*, to illuminate the lives of these fiercely independent people.

Spec Term, Sec 50, Th, 6:30-8:30, June 15-July 13 (5 meetings), St. Anthony Park Library, 2245 Como Ave., STP. No late fee through June 8.

(Terry Fingerhut has lived and traveled extensively in Scandinavia. Her master's degree focus was Hiberno-Norse archaeology, and she is currently a doctoral student in the Program for Interdisciplinary Archaeological Studies at the University of Minnesota)

CSch 0206 THE BALKANS: UNDERSTANDING NATIONALISM AND ETHNIC CONFLICT. No credit, \$40 (age 62 and Weisman members, \$36).

Offered in conjunction with the Frederick R.

Weisman Art Museum's photo exhibition "Faces of Sorrow: Agony in the Former Yugoslavia." The work of 41 photographers documents the profound suffering of these people and provides a backdrop for study of ethnic conflict in general. Learn more about why this area has been so much at the heart of European interest for decades. Though its spotlight is on the Balkans, the course offers greater understanding on the sources and nature of nationalism throughout the world. (Offered in cooperation with the Frederick R. Weisman Art Museum. Limited to 25)

Spec Term, ★Sec 50, T, 6:30-8:30, July 18, 25 (2 meetings), WeismanArt, Billy & Jody Weisman Family Seminar Room. No late fee through July 11.

(Richard Rudolph is a professor in the Department of History at the University of Minnesota. He has lectured and written extensively on European history)

CSch 0208 THE ISLANDS OF MINNEAPOLIS. No credit, \$49 (age 62, \$44.10).

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 Ojibwa 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 (June 24) exploring the islands by St. Anthony Falls. (Limited to 25)

Spec Term, ★Sec 50, W, 6:30-8:30, June 14, 21 (2 meetings plus tour), AmundH 120. No late fee through June 7.

(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 0224 ARCHAEOLOGY AT THE HEAD OF LAKE PEPIN—A LOOK AT THE RED WING SITE. No credit, \$64 (age 62, \$57.60).

One of the centers of ancient Native American Mississippian culture was at the head of Lake Pepin near Red Wing. For more than 10 years archaeologists from the Institute for Minnesota Archaeology (IMA) have explored the life of Native American people who lived in that area a thousand years ago. Join IMA staff to discover what they have learned about this fascinating culture. Learn about methods used by archaeologists and discuss the importance of proper stewardship of the past with Phyllis Messenger, instructor for the first class session. The second session, a slide lecture led by

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Dr. Clark A. Dobbs, provides an orientation to the sites of the region. Class concludes with a one-day field trip to Red Wing to visit with researchers and tour exhibits at the Goodhue County Historical Society (**July 22; participants provide own transportation and may choose to carpool**).

Spec Term, Sec 50, W, 7-9, July 12, 19 (2 meetings plus field trip), Institute for Minnesota Archaeology, 3300 University Ave. S.E., #204, Mpls. *No late fee through July 5.*

(Phyllis Messenger, senior education archaeologist at IMA, earned her M.A. in anthropology from the University of Minnesota. She has participated in archaeological field projects in Mexico, Honduras, and the United States. Dr. Clark A. Dobbs, senior research archaeologist at IMA, has 25 years of experience with historic and archaeological projects. He is the project director for *Mississippi River: Highway Through Time*, an interdisciplinary research program)

CSch 0225 HUMAN ORIGINS: AN ANTHROPOLOGICAL QUEST. No credit, \$80 (age 62, \$72).

How old are humans? Where did we originate? These scientific controversies have abounded for over a century. Survey 20th-century findings and recent research, including evidence from China, that questions human origination in Africa. Discover the significance of "Lucy," the famous female australopithecine. Learn how various human species are defined, what anatomical and socio-behavioral issues are considered, and how and when modern *Homo sapiens* appear in the archaeological record. Includes a visit to the University's anthropology department to look at a collection of bone casts.

Spec Term, Sec 50, W, 6-8, June 14-July 12 (5 meetings), AmundH 116. *No late fee through June 7.*

(Deborah Shepherd has a Ph.D. in interdisciplinary archaeological studies from the University of Minnesota, with previous graduate work in anthropology. She recently completed an internship at the University working with Mimbres pottery. Her dissertation research focuses on the funerary ritual and symbolism of burial practices in late Iron Age Finland)

CSch 0235 PERSPECTIVE, WORLD VIEW, AND THE MYTH OF COMPLETENESS: TOWARD AN EXPANDED REALITY. No credit, \$80 (age 62, \$72).

You are invited to reconsider the affect your world view has on what you perceive. For most Americans, reality is determined by science. But this limited approach is no longer as helpful as it once was. Redirecting attention inward increases our ability to attend to an expanded world view. Join an insightful discussion flavored with readings from *No Boundary* by Ken Wilbur and *A Course in Miracles and God and the New Physics* by Paul Davies, among others.

Spec Term, Sec 50, Th, 6-8, June 22-July 20 (5 meetings), AmundH 124. *No late fee through June 15.*

(Robert Peszynski earned a Ph.D. in the social and philosophical foundations of education from the University of Minnesota. The author of *Embrace of the Infinite: Graced by Awareness, he is currently working on a book entitled "Soul Search," an exploration of cognitive development in relationship to contextual understanding*)

CSch 0236 ORDINARY PEOPLE AND EXTRAORDINARY EXPERIENCES. No credit, \$108 (age 62, \$97.20).

Ordinary people experience profound and sometimes mystical events in their lives. Discover how such compelling experiences—yours and others—may be connected. Read selections from E. Haroldsson, Agnes Sanford, Kenneth Ring, and others to learn about transcendent visions, near-death accounts, and links with deceased persons. Discuss how the depth of meaning in such experiences can transform a life. Examine how these data influence constructions of reality and consider their impact on assumptions of modern science. Reflect on your own beliefs to learn how ordinary people can serve as mystics. (Limited to 12)

Spec Term, ★Sec 50, T, 6-8, June 13-July 25 (6 meetings—no class July 4), AmundH 104. *No late fee through June 6.*

(V. Lois Erickson, associate professor of educational psychology at the University of Minnesota, has taught courses in the areas of education, human development, inner work, and spirituality)

CSch 0292 EXPLORING ANCIENT ISRAEL: A WALK THROUGH TIME. No credit, \$84 (age 62, \$75.60).

The narrow, stony little labyrinth that is the land of Israel has given us the legacy of Judaism and Christianity. In lectures accompanied by slides, take an extended hike through ancient historical and Biblical Israel, seeing how the places so central to the Hebrew Scriptures and New Testament match the physical and geographical reality. Look at nature in the Bible, explore the desert in the south and mountains in the north, poke through the field of Biblical archaeology, and climb to ancient Jerusalem. (Limited to 25)

Spec Term, ★Sec 50, W, 6:30-8:30, June 21-July 19 (5 meetings), Hillcrest Recreation Center, Village View Room, 1978 Ford Pkwy., StP. *No late fee through June 14.*

(Allan Rabinowitz lectures widely on Israel. He lived there for 10 years, working as a journalist and licensed tour and educational guide for the Jerusalem municipality and Hebrew University. He has written three travel books and his articles have appeared in the *Jerusalem Post* and other periodicals)

Noncredit Courses

CSch 0294 THE ROMANCE OF KING ARTHUR.

No credit, \$64 (age 62, \$57.60).

Was there a King Arthur? Did King Arthur die or is he still alive? Why is it that the legend of King Arthur and his knights remains popular today in spite of the ultimate collapse and failure of the Round Table? Trace the legend of King Arthur from its earliest origins to the time of Malory in the 15th century. Examine Latin chronicles, read *Lancelot* (a French legend), *Sir Gawain and the Green Knight* (an English romance), look at illustrations from *Tristan and Isolde*, and conclude with English accounts of Arthur's death in Malory's *Le Morte D'Arthur*. (Limited to 25)

Spec Term, ★Sec 50, T, 10:15 a.m.-12:15, June 6-27 (4 meetings), Gloria Dei Lutheran Church, Room 100, 700 Snelling Ave. S., StP. *No late fee through May 30.*

(Stephanie Cain Van D'Elden, a faculty member of the Center for Medieval Studies at the University of Minnesota, earned a Ph.D. in Germanic philology. She has published extensively on medieval subjects, including heraldry, tournaments, coats of arms, and politics)

Writing

CSch 0300 WRITING ABOUT YOUR ROOTS: EXPLORING ETHNICITY AT HOME AND ABROAD.

No credit, \$91 (age 62, \$81.90).

Would you like to write about your ethnic experience and history? Have you noticed how travel changes your perspectives on your heritage? Explore your ethnic background and ways to write about it. Examine different narrative points of view and genres, including the memoir, fictionalized autobiography, and personal essay. Learn about local resources such as the Minnesota Historical Society and Immigration History Research Center. Develop a framework and time line; use holiday get-togethers to gather ethnic material and stories; and provide supportive and constructive feedback for each other's work. Primarily for beginning and intermediate prose writers. Texts: *Encountering Cultures: Reading and Writing in a Changing World*, edited by Richard Holetton, and *Points of View: An Anthology of Short Stories*, edited by James Moffett and Kenneth McElheny. (Limited to 22)

Spec Term, ★Sec 50, Th, 6:30-8:30, June 29-Aug. 3 (6 meetings), AmundH 104. *No late fee through June 22.*

(Gwen Willems has had numerous articles published in University of Minnesota, Twin Cities, and national news publications. She recently received a grant from the Minnesota Historical Society to study her German and Dutch heritage, and is completing a master's

degree in international education. Gayla Marty has been an editor and writer at the University of Minnesota's Institute of International Studies and Programs for eight years. Her undergraduate degree is in journalism, and she is completing her master's degree in the University's Program in Creative and Professional Writing)

CSch 0301 CREATIVE WRITING.

No credit, \$107 (age 62, \$96.30).

Look at a wide spectrum of genres from fiction to creative nonfiction and memoir, and work on developing a specific voice for your writing. Review the writing process, working on how to begin, when to end, and how to uncover the real narrative from a first draft. Understand issues involved in generating new material as well as in shaping and polishing early drafts. Gain insights and critical review of your work through comments and suggestions from peers and the instructor in a positive environment. (Limited to 20)

Spec Term, ★Sec 50, M, 6:30-8:30, June 12-July 31 (7 meetings—no class July 3), Hillcrest Recreation Center, Village View Room, 1978 Ford Pkwy., St.P. *No late fee through June 5.*

(Melanie Richards, a graduate student in creative writing at the University of Minnesota, has won several awards for her poetry and prose. Her writing has been published in Yankee, Harvard Review, Shenandoah, and 26 Minnesota Writers)

CSch 0311 SCREENWRITING SKILLS FOR STORYTELLERS.

No credit, \$170 for two days; \$100 for a single day. *Includes box lunch and materials.*

Entertaining, intriguing, believable characters and strong and imaginative stories are essential to all successful screenplays, novels, and stories. Hollywood screenwriter David Freeman returns to the University with a two-day workshop to help you create memorable and psychologically complex characters, write striking and imaginative dialogue, and craft compelling plots and scenes. Learn methods to develop natural and expressive dialogue so your characters come alive for the reader. Explore ways to fill your plots with imaginative twists and dramatic scenes. The workshop's multiple writing exercises, designed for beginning and intermediate writers, will help you improve storytelling skills and build the confidence to pitch your writing regionally or to Hollywood. For those especially interested in film, Freeman provides guidance about successful strategies for selling scripts or even just story ideas in Hollywood. Although single-day registration is available, two-day attendance is recommended for comprehensive coverage of subject. Materials

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distributed at workshop. (Limited to 50 participants per day)

Spec Term, ★Sec 50, SaSu, 9 a.m.-5:45, June 10, 11 (2 days), EBCEC 32, StP Campus. *No late fee through June 2.*

Spec Term, ★Sec 51, Sa, 9 a.m.-5:45, June 10 (1 day), EBCEC 32, StP Campus. *No late fee through June 2.*

Spec Term, ★Sec 52, Su, 9 a.m.-5:45, June 11 (1 day), EBCEC 32, StP Campus. *No late fee through June 2.*

(David Freeman, Hollywood producer and screenwriter, has sold or optioned screenplays to Columbia Pictures, Cinecorp, Castle Rock, and Lorimar Television. He has taught screenwriting in Los Angeles and San Francisco and has guest lectured at UCLA Extension and the American Film Institute)

Literature

CSch 0421 CHINESE FAMILY IN CONTEMPORARY FICTION. No credit, \$90 (age 62, \$81).

Family is the center of Chinese culture. Contemporary novels and films like Chinese-American writer Amy Tan's *Joy Luck Club* and Chinese writer Su Tong's *Raise the Red Lantern* demonstrate ways in which the family can serve as a source of empowerment or a source of oppression. Focusing on short fictional works by both Chinese and Chinese American writers, the course offers a cross-cultural look at the literary representations of families across the Chinese diaspora. These works address the following questions: How have history and geography, migration and emigration affected Chinese families? What are the effects of politics, gender roles, and social class on family dynamics? What literary and cultural models inform the imaginations of Chinese and Chinese American writers? Do they have anything in common? Works studied include Maxine Hong Kingston's *The Woman Warrior*, Fae Myenne Ng's *Bone*, and Su Tong's *Raise the Red Lantern*. (Limited to 30)

Spec Term, ★Sec 50, W, 6:30-8:30, June 21-July 26 (6 meetings), HckrH 100, StP Campus. *No late fee through June 14.*

(Sophie Liu is a Chinese American writer, actor, and storyteller whose writing appears with others in *Multicultural Voices in Literature: An Annotated Bibliography and Teacher's Guide*, to be published in 1995 by the Minnesota Center for Arts Education. She also is a board member of the Minnesota Alliance for Arts in Education and the Asian American Renaissance, Twin Cities)

CSch 0441 P.D. JAMES: QUEEN OF CRIME. No credit, \$75 (age 62 and WCM members, \$67.50).

Mystery novels as a rule are long on stereotypes and

convoluted plots and short on character development, psychological insight, and realistic social settings. However, P.D. James's novels include all these elements. She, like Dorothy Sayres, elevates the genre to the level of the novel of manners, throwing light on contemporary British manners through social satire. Read *Unnatural Causes* and *The Skull Beneath the Skin*, and study and analyze P.D. James's intricate plots and police/poet hero, Adam Dalgliesh, as well as her young woman private detective, Cordelia Gray. (Offered in cooperation with the Woman's Club of Minneapolis. Limited to 50)

Spec Term, ★Sec 50, W, 9:30-11:30 a.m., July 19-Aug. 16 (5 meetings), Woman's Club of Mpls, 410 Oak Grove. *No late fee through July 12.*

(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)

CSch 0442 THE MYSTERY IN THE MYSTERY: DETECTIVES ON SPIRITUAL JOURNEYS. No credit, \$75 (age 62, \$67.50).

Murder mysteries are considered by many of their creators to be contemporary morality tales that reflect current beliefs about good, evil, sin, redemption, and grace. Explore these ideas as they are presented by two popular American mystery writers: Jane Haddam (*Festival of Death*) and Tony Hillerman (*Sacred Clowns*). How do their detectives (Gregor Demarkain and Joe Leaphorn), both outsiders to American mainstream culture, cope with good and evil? More important, what are these two writers trying to tell us about ourselves? Grapple with these ideas through lecture and class discussion. Participants should begin reading the novels before class begins. (Limited to 25).

Spec Term, ★Sec 50, W, 6:30-8:30, June 21-July 19 (5 meetings), St. Anthony Park Library, 2245 Como Ave., StP. *No late fee through June 14.*

(Paula Wilson is an avid mystery reader. She received her doctorate in American studies at the University of Minnesota. Her research focuses on cultural images of women in religion)

Natural and Physical Sciences

CSch 0506 SUMMER WILDFLOWERS, FERNS, AND SHRUBS OF MINNESOTA. No credit, \$110 (age 62 and Bell Museum members, \$99).

Minnesota's prairies, savannas, and wetlands bloom throughout the summer with many little-known treasures. Learn to identify the unique and colorful wildflowers, ferns, and shrubs found in these varied habitats of central Minnesota. Through lectures,

slides, and field guides, get acquainted with the plants examined during two full-day Saturday field trips (**July 15, 29; participants provide own transportation and may choose to carpool**). (Offered in cooperation with the Bell Museum of Natural History. Limited to 25)

Spec Term, ★Sec 50, T, 6-8, June 27-July 25 (4 meetings plus 2 field trips—no class July 4), BioSci 176, StP Campus. *No late fee through June 20.*

(C. Colston Burrell is president of Native Landscape Design and Restoration, Ltd. and co-author of Rodele's Illustrated Encyclopedia of Perennials. He has an M.S. in horticulture and is currently a graduate student in landscape architecture)

CSch 0512 REVISITING NATIVE FORESTS OF THE TWIN CITIES. No credit, \$70 (age 62 and Bell Museum members, \$63).

In the mid-1800s maple-basswood, oak, and pine forests covered thousands of acres of the future Twin Cities area. Over the following 150 years most of these upland forests were logged for lumber and firewood and cleared for farms and urban growth, so that by 1990 only about 6 percent of the area's native forests remain. Revisit the native landscape of the area by tracing the ecological history of its forests. Examine different upland forest types that developed over hundreds and perhaps thousands of years under the influence of geology, climate, and Native American activities, and the changes that have occurred to them as a result of logging, farming, and urban development. Includes two Saturday morning field trips (**June 17, 24; participants provide own transportation and may choose to carpool**) to forests in the northern and eastern metro area. (Offered in cooperation with the Bell Museum of Natural History. Limited to 22)

Spec Term, ★Sec 50, W, 6:30-8:30, June 14-28 (3 meetings plus 2 field trips), BellMus 175 (use auditorium entrance facing Church Street). *No late fee through June 7.*

(Daniel Vovcha is an ecologist, writer, and photographer with the Minnesota County Biological Survey of the Minnesota Department of Natural Resources. A co-author of Minnesota's St. Croix River Valley and Anoka Sandplain: A Guide to Native Habitats, he holds a master's degree in ecology from the University of Minnesota)

CSch 0518 THE NATURAL HISTORY AND BIOLOGY OF OWLS. No credit, \$42 (age 62 and Bell Museum members, \$37.80).

Although widespread and common in many areas, owls as a group are mysterious and poorly understood. Explore the natural history of the world's owls, paying particular attention to those of North

America. Includes observation of live owls at the Raptor Center and an overview of the rehabilitation of injured owls. (Offered in cooperation with the Bell Museum of Natural History. Limited to 35)

Spec Term, ★Sec 50, Th, 6:30-8:30, July 20-Aug. 3 (3 meetings), GRaptCtr 120, StP Campus. *No late fee through July 13.*

(Mark Martell, a staff member of the Gabbert Raptor Center since 1981, has an M.S. in wildlife conservation from the University of Minnesota. He is a falconer and has done field work with bald eagles, burrowing owls, osprey, and peregrine falcons)

CSch 0532 EXTINCTION OF THE DINOSAURS. No credit, \$38 (age 62, \$34.20).

About 66-million years ago, dinosaurs, which had been a dominant presence on the earth for 140 million years, became extinct. How rapidly did this happen? Over a few years? Over a few thousand years? And what caused this mass extinction? Climate change? Volcanic eruptions? Meteor impact? Examine the proposed biotic, terrestrial, and extraterrestrial causes for the extinction of the dinosaurs. (Limited to 25)

Spec Term, ★Sec 50, W, 6:30-8:30, June 21, 28 (2 meetings), PillsH 121. *No late fee through June 14.*

(Robert E. Sloan is a professor in the Department of Geology and Geophysics at the University of Minnesota. A member of the department for 41 years, his research interests include the rocks and fossils of southeastern Minnesota and the extinction of dinosaurs in Montana and China)

CSch 0568 FRANKENSTEIN: MYTHS, MONSTERS, AND MAD SCIENTISTS. No credit, \$60 (age 62, \$54).

What was Mary Shelley thinking of when she wrote *Frankenstein*? What was happening in science and society that had an influence on Shelley in 1818 and the makers of the classic movie in 1931? Study this classic horror tale in The Bakken Library and Museum of Electricity in Life on Lake Calhoun. See the first edition of Shelley's book, learn about the electrical experiments that inspired her, and watch the 1931 film starring Boris Karloff. Explore the myth of the mad scientist and reflect on our culture's love-hate relationship with science. Participants should obtain a copy of Mary Shelley's *Frankenstein*. (Limited to 25)

Spec Term, ★Sec 50, Th, 6:15-8:15, June 15-July 6 (4 meetings), The Bakken Library and Museum of Electricity in Life, 3537 Zenith Ave S., Mpls. *No late fee through June 8.*

(David Rhees, executive director of The Bakken Library and Museum of Electricity in Life, holds a doctorate in the history and sociology of science. He has served as

a visiting professor in the History of Science and Technology Program at the University of Minnesota)

CSch 0593 BEHIND-THE-SCENES AT THE ZOO: CONSERVATION, ANIMAL MANAGEMENT, AND EDUCATION. No credit, \$53 (age 62 and Minnesota Zoo members, \$47.70).

Historically, zoos were mere collections of exotic flora and fauna for the amusement of royalty and the very rich. Later, public museums exposed large audiences to the tremendous beauty and diversity of the world's wildlife. Today, zoos preserve endangered and threatened animals through internationally coordinated captive-breeding programs. Using the Minnesota Zoo as a classroom, gain behind-the-scenes insight into healthy management of exotic animals. Learn about the Zoo's conservation programs, explore underground tunnels, visit the kitchen where keepers prepare diets, and tour the greenhouses that replenish vegetation for habitat collections. This introduction to the modern zoo involves a lot of walking. (Offered in cooperation with the Minnesota Zoo. Limited to 20)

Spec Term, ★Sec 50, Sa, 9 a.m.-12:30, June 17, 24 (2 meetings), Minnesota Zoo, 13000 Zoo Blvd., Apple Valley (meet in lobby). *No late fee through June 9.*

(Mike Vinyon is an education specialist at the Minnesota Zoo and a graduate of the University of Minnesota Law School)

The Practical Scholar summer course offerings

University Access

PSch 0605 DECIDING TO ATTEND GRADUATE SCHOOL. No credit, \$17 (age 62, \$15.30).

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 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, 10 a.m.-12, June 17 (1 meeting), AmundH 158. *No late fee through June 9.*

(Theresa Maximovitch is a career management consultant for Career Dynamics, Inc. and a doctoral candidate in counseling psychology at Stanford University)

PSch 0606 APPLYING TO AND FINANCING GRADUATE SCHOOL. No credit, \$26 (age 62, \$23.40).

Early planning is essential in applying to and successfully financing your graduate education. Most 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 including loans, grants, scholarships, fellowships, and assistantships. Includes time for questions. (Limited to 45)

Spec Term, ★Sec 50, Sa, 9 a.m.-12., June 24 (1 meeting), AmundH 120. *No late fee through June 16.*

(Dennis Clayton, Ph.D., is assistant to the dean of the Graduate School at the University of Minnesota. Larry Bloom is a financial aid counselor at the University)

PSch 0609 REVIEWING MATH FOR THE GRE OR GMAT. No credit, \$125 plus \$12 special fee. Total \$137 (age 62, \$112.50 plus \$12 special fee. Total \$124.50). *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 or 0662). Last class includes an assessment followed by a discussion. Materials distributed at first class. (Limited to 30)

Spec Term, ★Sec 50, M, 6-9, July 31-Aug. 28 (4 meetings—no class Aug. 7), AmundH 120. *No late fee through July 24.*

(Barbara Clothier is the mathematics counselor at Macalester College as well as an instructor of both mathematics and statistics. Her research interests are in educational psychology and developmental mathematics education)

PSch 0610 PREPARING FOR THE GRE. No credit, \$215 plus \$25 special fee. Total \$240 (age 62, \$193.50 plus \$25 special fee. Total \$218.50). *Includes study materials.*

Become familiar with the various types of verbal, quantitative, and analytical questions presented on the Graduate Record Examination (GRE) General Test. In addition to learning test-taking strategies, participants will work with test-simulation exercises on reading comprehension, antonyms, analogies, sentence correction, problem solving, quantitative

Noncredit Courses

comparison, graphs, and analytical/logical reasoning. Includes advanced math strategies. Students needing basic math review (arithmetic, algebra, geometry, and story problems) should register for PSch 0609. Materials especially prepared for this seminar format distributed at the first class. (Limited to 40)

Spec Term, ★Sec 50, Th, 5:30-9:30, Aug. 3-31 (5 meetings), AmundH 116. *No late fee through July 27.*

(Instructor for the verbal section, to be assigned, will be a staff member in the Learning and Academic Skills Center at the University of Minnesota. 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 0613 PREPARING FOR THE LSAT. No credit, \$180 plus \$25 special fee. Total \$205 (age 62, \$162 plus \$25 special fee. Total \$187). *Includes study materials.*

Learn test-taking strategies and practice working with the various types of questions presented on the Law School Admissions Test (LSAT). 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. Materials especially prepared for this seminar format distributed at the first class. (Limited to 40)

Spec Term, ★Sec 50, T, 5:30-9:30, Aug. 22-Sept. 12 (4 meetings), AmundH 240. *No late fee through Aug. 15.*

(Instructor, to be assigned, will be a staff member in the Learning and Academic Skills Center)

PSch 0620 GRAMMAR REFRESHER. No credit, \$80. Total \$72.

Has it been too many years 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 personal or work-related correspondence. Review 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, 6-8, June 15-July 13 (5 meetings), AmundH 162. *No late fee through June 8.*

(Jan DeNoble has taught classes and seminars for the University of Minnesota, government agencies, and private industry)

PSch 0662 ELEMENTARY ALGEBRA. No credit, \$170 (age 62, \$153).

For students 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. While practicing algebra skills, gain an understanding of why and how mathematical procedures are used. Learn to work with signed numbers, exponents, expressions, equations, inequalities, factoring, polynomials, rational expressions, and x-y graphs. Spend a lot of time on word problems. Preparation for Intermediate Algebra, PSch 0653 or GC 0625. (Limited to 25)

Spec Term, ★Sec 50, Th, 6-7:45, June 15-Aug. 24 (11 meetings), AmundH 240. *No late fee through June 8.*

(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 CEE Distinguished Teaching Award. His research interests are in developmental mathematics education)

Career Development

PSch 0702 CAREER DECISIONS: STRATEGIES FOR CHANGE. No credit, \$105 plus \$25 special fee. Total \$130 (age 62, \$94.50 plus \$25 special fee. Total \$119.50).

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 explore career alternatives. An opportunity to take the Strong Interest Inventory and the Myers-Briggs Type Indicator, two vocational assessment inventories. (Limited to 30)

Spec Term, ★Sec 50, T, 6-8, June 13-July 25 (6 meetings—no class July 4), NCCE Library, Huck. *No late fee through June 6.*

Spec Term, ★Sec 51, W, 6-8, July 26-Aug. 30 (6 meetings), NCCE Library, Schaefers. *No late fee through July 19.*

(Christina Huck, Ph. D., is a licensed psychologist and

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

director of Counseling and Psychological Services at St. Mary's College. Kate Schaefer coordinates the Career Transition Program at the University of Minnesota. Both are career counselors who have worked with university students and other adults teaching career planning classes and job search workshops)

Human Development

PSch 0808 CREATIVITY AND THE MYERS-BRIGGS. No credit, \$80 plus \$17 special fee. Total \$97 (age 62, \$72 plus \$17 special fee. Total \$89). Includes materials.

Everyone is creative—in different ways. Your personality influences your creativity in powerful and often predictable ways. The Myers-Briggs Type Indicator reveals not only your personality preferences, it also provides valuable insight into your creative process. By completing the MBTI prior to meeting and then receiving and discussing the results at the workshop, you'll be able to apply an awareness of type differences to a five-stage model of the creative process. You'll see why you excel at some of the stages and learn strategies to help you move through the stages that come less naturally to your Myers-Briggs type. In addition, a discussion of type dynamics will shed light on the role of the shadow in creative expression. Lunch on your own. (Limited to 25)

Spec Term, ★Sec 50, Sa, 9 a.m.-5, June 24 (1 meeting), AmundH 156. No late fee through June 16.

(Claudia Bruber has been trained by the Association for Psychological Type to administer and interpret the MBTI. She holds a master's degree in organizational development and training, and is the owner of C. Bruber Consulting Group. Rosanne Bane, M.A., has taught creativity classes at the University of Minnesota, the Loft, and Imagination Ink. She is editor of The Phoenix and a free-lance writer)

Gardening, Finances, Wellness, Etc.

PSch 0905 INVESTMENTS AND PERSONAL FINANCIAL PLANNING. No credit, \$68 (age 62, \$61.20).

Cover fundamental issues of sound financial management planning. Intended for both the novice and experienced investor, this series emphasizes concepts to help you better manage and control your financial future. *First Session: Basic Financial Management Process.* Taking your financial inventory, personal budgeting and planning,

determining goals and objectives for investment, retirement, future expenditures, and cash control procedures. Reviewing basic needs for savings, insurance, and wills. *Second Session: Basics of Investments.* Basic features and considerations of investing in money market funds, bonds, preferred stocks, municipal bonds, bond funds, and stocks. *Third Session: Putting It All Together.* Integrating your objectives with investment alternatives, basic tax considerations, and structuring an investment portfolio. (Limited to 40)

Spec Term, ★Sec 50, M, 6-8:30, June 12-26 (3 meetings), Washburn Library, 5244 Lyndale Ave. S., Mpls. No late fee through June 5.

(Jennifer Schanno Fogg, M.B.A., is a registered investment advisor with MTI Financial Services of Edina)

PSch 0935 THE CREATIVE TRAVELER. No credit, \$48 (age 62, \$43.20).

Whether packing up the Ford and heading west for the Rockies or attempting to get directions to the Louvre in a Paris rain, some people just have more fun travelling. How come they're the ones who survive the scrapes and live to tell the hilarious tales? Their postcards are packed, their suitcases light, their nose for adventure uncanny—these people know how to travel creatively. Examine how background reading, trip journals, the traveler's mind-set, and a thermos of cappuccino can make your next vacation sing. Learn to prepare a sophisticated traveler's syllabus developed through exercises and class discussion.

Spec Term, Sec 50, W, 6-8, June 14-28 (3 meetings), FordH 130. No late fee through June 7.

(Patty Lynch has hiked the Canadian Rockies, witnessed a solar eclipse in Hawaii, and eaten alligator stew in the Louisiana bayou. She has written travel articles for the St. Paul Pioneer Press and Minnesota Monthly. Also a playwright, she draws great inspiration for writing from extensive travelling)

PSch 0938 THE LONELINESS OF THE LONG-DISTANCE RUNNER: MARATHON TRAINING I. No credit, \$82 (age 62, \$73.80).

Whether you're an experienced marathoner or new to the sport, you know that training is a very important—but lonely—part of the race. Join other runners to get yourself in shape both physically and mentally for long-distance competition, such as the Twin Cities Marathon. Learn how to stay motivated throughout the training period, what foods to eat to maintain strength, and tips to complete the race successfully. Principles learned in this class will help you complete "marathons" in all areas of your life. Participants will be encouraged to train together

Noncredit Courses

outside of class and when the class ends (watch for Marathon Training II to be offered this fall). Class will include both lecture and training, so wear loose, comfortable clothing.

Spec Term, Sec 50, T, 6-8, July 11-Aug. 8 (5 meetings), AmundH 116. *No late fee through July 5.*

(Mary Howell Langlie is an experienced kinesiology teacher as well as a coach and former member of the U.S. National Racewalking Team. She has completed the Twin Cities and Grandma's marathons as well as races in New York and Boston)

PSch 0951 IN LIVING COLOR: FLOWER GARDEN DESIGN AND IMPLEMENTATION. No credit, \$85 plus \$4 course fee. Total \$89 (age 62 and Arboretum members, \$76.50 plus \$4 course fee. Total \$80.50).

Just as vegetables provide food for the body, flowers provide a feast for the eyes. Learn how to create colorful landscapes with herbaceous plants incorporating both good design principles and good gardening techniques for lower overall maintenance. Review culture, selection, and use of annuals, herbaceous perennials, and tender and hardy bulbs, plus their unique design possibilities. Each session will include lecture, a garden visit on Arboretum grounds, and hands-on learning activities. No previous design experience needed. (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, 6:30-9, June 15-July 13 (4 meetings—no class June 29), Minnesota Landscape Arboretum, Snyder Bldg., Classroom 1, 3675 Arboretum Dr., Chanhassen. *No late fee through June 8.*

(Anne Hanchek is an assistant professor of horticultural science and a Minnesota Extension Service environmental horticulturist at the University of Minnesota. She is also the director of educational programs at the Minnesota Landscape Arboretum)

PSch 0956 THE EXOTIC WORLD OF THE JAPANESE GARDEN. No credit, \$45 (age 62 and Arboretum members, \$40.50).

The intriguing and mysterious air of Japanese gardens is due to their complex nature. Learn about the strong influence of history and philosophy in the development of Japanese gardens plus the natural and man-made materials used to make the various types. A slide-show discussion highlights different interpretations, followed by a tour of several of these special gardens in the Twin Cities. The first session meets at the Arboretum (admission fee waived with course registration receipt); the second meets at a local garden. (Offered in cooperation with the Minnesota Landscape Arboretum. Limited

to 25)

Spec Term, ★Sec 50, Th, 6-9, June 15, 22 (2 meetings), Minnesota Landscape Arboretum, Snyder Bldg., Classroom 2, 3675 Arboretum Drive, Chanhassen. *No late fee through June 8.*

(Shirley Mah Kooyman, a botanist, is the adult education coordinator at the Minnesota Landscape Arboretum and a Hennepin County Master Gardener)

PSch 0957 BULBS FOR SPRING AND SUMMER COLOR IN THE GARDEN. No credit, \$30 (age 62 and Arboretum members, \$27).

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, Aug. 10, and Sa, 10 a.m.-12, Aug. 12 (2 meetings), Minnesota Landscape Arboretum, Snyder Bldg., Classroom 2, 3675 Arboretum Drive, Chanhassen. *No late fee through Aug. 3.*

(See Shirley Mah Kooyman's biography in PSch 0956)

PSch 0959 IDENTIFYING AND MANAGING GARDEN PESTS: FOR HEALTHY PEOPLE AND A HEALTHY PLANET. No credit, \$43 (age 62, \$38.70).

This hands-on workshop teaches you how to look for problems in your garden and yard, how to decide when and if control measures are needed, and what control options—from organic to chemical—are available. For example, if you're using edible plants in the landscape, as many people currently are, it is important to know their special pests and pest-control restrictions before integrating them with ornamental plants. Learn to identify plant problems and beneficial insects through the use of slides, insect and plant specimens, and a field trip during the third class session. Also, discover some of the new, natural control methods used at the Minnesota Landscape Arboretum. (Limited to 20)

Spec Term, ★Sec 50, M, 6:15-8:15, July 10-24 (3 meetings), AlderH 423, StP Campus. *No late fee through July 3.*

(Jody Feizer is the integrated pest management coordinator at the Minnesota landscape Arboretum. She works with Arboretum gardeners to develop

★ Indicates limited-enrollment section. See abbreviations and symbols, page 37.

environmentally safe solutions to minimize pests and maximize plant health. Her background includes a master's degree in plant pathology and diagnostic experience as an entomologist at the Dial U Clinic)

PSch 0963 SUMMER PERENNIALS: IDENTIFICATION AND USE IN THE GARDEN. No credit, \$105 (age 62, \$94.50).

Herbaceous perennials are a beautiful and versatile group of garden plants. Focus on identification, cultural requirements, and landscape use of hardy, summer-blooming perennials. Each lecture is held at a local public or private garden or nursery, enabling participants to see the many ways that perennials can be used to enhance the home landscape. Class meets twice monthly throughout the summer in order to view the largest possible selection of plants. (Limited to 20)

Spec Term, ★Sec 50, W, 6-8:30, June 21, 28, July 12, 26, Aug. 9, 23 (6 meetings), first class meets in NCCE Library. *No late fee through June 14.*

(C. Colston Burrell is president of Native Landscape Design and Restoration, Ltd. and co-author of Rodele's Illustrated Encyclopedia of Perennials. He has an M.S. in horticulture and is currently a graduate student in landscape architecture)

PSch 0965 COMMERCIAL LANDSCAPE DESIGN: THE PLANNING PROCESS. No credit, \$98 plus \$7 course fee. Total \$105 (age 62 and Arboretum members, \$88.20 plus \$7 course fee. Total \$95.20).

Creating long-term landscapes with minimal problems isn't simple. It requires intelligent design that takes into account not only the site but also the needs and growth of chosen plants. Horticulture and design come together in this intensive class for professionals, Master Gardeners, and students of landscape design and construction. Through lecture and discussion, analyze current landscape situations in class and in the field while developing and evaluating plans for future installations. (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, 8:30 a.m.-11:30, June 15-July 6 (4 meetings), Minnesota Landscape Arboretum, Snyder Bldg., Classroom 1, 3675 Arboretum Dr., Chanhassen. *No late fee through June 8.*

(Brad Pederson is an associate professor in the Department of Horticultural Science at the University of Minnesota. He is the Minnesota Extension Service turf specialist and well known for his innovative curriculum on landscape design at the former Waseca campus. He is a leader in the newly formed Minnesota Turf and Ground Foundation)

PSch 0966 WOODY PLANTS FOR THE NORTH. No credit, \$98 plus \$3 course fee. Total \$101 (age 62 and Arboretum members, \$88.20 plus \$3 course fee. Total \$91.20).

Which lilac is loveliest and least disease-prone? Which maple has the most marvelous color? Which honeysuckle is most likely to look horrible after five years? For an up-close, in-depth look at woody plant species and cultivars appropriate for northern landscapes, join this intensive class for professionals, Master Gardeners, and horticulture students. Lectures and field work combine in a hands-on approach. (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, 12:15-3:15, June 15-July 6, (4 meetings), Minnesota Landscape Arboretum, Snyder Bldg., Classroom 1, 3675 Arboretum Dr., Chanhassen. *No late fee through June 8.*

(Mike Zins is a horticulturist with the Minnesota Extension Service at the University of Minnesota and a recognized expert in urban forestry and woody plant selection. He is one of the faculty coordinators for the Master Gardeners Program and editor of Arborecence for the Minnesota Society of Arboriculture)

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

You may register for these weekends at any time before the stated deadline. Registrations are accepted on a first-come, first-served basis. 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.

Registrations may be charged to Visa, Discover, or MasterCard.

CSW 0802 MANOOMINIKEWIN: THE ART OF WILD RICING. Sept. 8-10, 1995.

Manoominikewin (Ojibwe for "making wild rice"), the traditional harvest and preparation of grains of a wild aquatic grass, is a simple human activity. The process involves a boat, a harvester, and two small sticks. Take a boat trip to learn first-hand how wild rice is harvested (and try it yourself if you like!) during this weekend class on Leech Lake Indian Reservation. Stay in comfortable lakeside cabins at Huddles South Shore Resort in Walker, Minnesota. Examine the history of wild rice and study the laws that govern the crop and harvesting and processing techniques. Learn the importance of this crop to the Ojibwe of Minnesota. Lecture and discussion will be interspersed with free time to enjoy the recreational facilities of the resort. Includes a pre-trip meeting (Aug. 24, 6-8 p.m.) at the Minnesota History Center. This introductory session will include a visit to the "Manoominikewin" exhibit. Weekend begins on Friday evening and concludes Sunday at noon. (Limited to 18).

Registration is open now; deadline for registration is July 24.

Spec Term, ★Sec 50, no credit, \$240 price includes two nights' lodging (double occupancy), five meals, and pre-trip lecture.

(Ron Libertus, a Leech Lake Ojibwe, is a lecturer in the Department of American Indian Studies at the University of Minnesota)



RESEARCH EXPLORATIONS

What is the Research Explorations Program?

Research Explorations (REX) offers the opportunity for public participation in field and laboratory research projects of University of Minnesota faculty.

Research projects for 1995 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. **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. Applica-

tions received after the preferential due date may experience delayed responses. Due dates for summer 1995 are:

Summer Session I: May 15, 1995

Summer Session II: June 22, 1995

10-week Summer Session: May 15, 1995

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 \$150 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. If a volunteer withdraws from a project 30 days or less prior to its start, the balance of special fees (if any) will not be refunded unless a replacement can be found. The research project depends on the financial contribution of participants' special fees for advance costs. No refunds or replacements can be made once the laboratory or field project has begun.

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, sometimes 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 1995

Animal Science, Biology, Forest Resources, Plant Biology, Soil Science

REX 0101 INFLUENCE OF INORGANIC SUSPENDED SEDIMENT ON STREAM ECOSYSTEMS. Research the ecosystem response of eight experimental streams in Monticello, Minn., that are dosed continuously with different amounts of suspended sediment. An understanding of instrumentation and associated technology is helpful but not required.

REX 0102 RESEARCHING SMALL FRUITS IN NORTHERN MINNESOTA. Hands-on opportunity to learn small-fruit production, evaluation systems, and research techniques. Required participant qualification: interest in small-fruit production. Volunteers can use this knowledge to develop a better understanding of horticulture food-production systems for classroom teaching. Though of special interest to teachers, this project is open to anyone meeting qualifications.

REX 0103 MUSHROOM DIVERSITY IN MINNESOTA OLD-GROWTH FORESTS. This project will characterize a select group of mushrooms (*ectotrophic mycorrhizal* species) to obtain data on fungal biodiversity in Minnesota old-growth and mature forests.

REX 0104 THE IMPACT OF SOIL FERTILITY ON CROP PRODUCTIVITY. Vegetable growing is gaining importance in Minnesota, and soil fertility research to expand production of crops such as potatoes, field corn, and soybeans is the core of this project.

REX 0105 HOME LAWN FERTILIZATION IN THE TWIN CITIES. This research project has two primary goals: locate over-fertilized home lawns in the Twin Cities and determine the best management practices for future fertilization recommendations.

REX 0106 EFFECTS OF SEDIMENT ON STREAMS. Researchers studying the effects of sediment (clay) on physical, chemical, and biological processes in streams will dose different amounts of clay into artificial streams at the Monticello, Minn., Ecological Research Station and measure its effects on light penetration, water chemistry, algae, invertebrates, and fish.

REX 0107 FOREST BIODIVERSITY AND SUCCESSION. Two goals have been established for this project: Test whether tree-species diversity influences other plant and animal diversity or ecosystem function, and to understand and quantify the phases in tree-life histories that most strongly influence their regenerative success (forest composition and dynamics).

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 addressing the impact of agriculture on water quality.

REX 0110 THE INFLUENCE OF NEUROTENSIN ON GASTRIC FUNCTION. After surgically implanting a strain-gauge transducer in domestic turkeys, neurotensin is infused and intestinal motility monitored to determine the effects of neurotensin on intestinal function.

REX 0117 PAPER RECYCLING TECHNOLOGY. A Department of Forest Products research program on the physical changes in paper properties caused by paper recycling and the development of technology to reduce the adverse effects of recycling on paper quality.

REX 0119 EVALUATING GRAPES FOR GROWING IN MINNESOTA. REX volunteers participate in this project to learn about the feasibility and difficulties of growing grapes in a cold climate.

REX 0120 BREEDING AND PRODUCING FRUIT CROPS IN MINNESOTA. The work carried on in this project seeks to improve fruit production in Minnesota by developing varieties suited to the climatic conditions of this northern zone.

REX 0124 INSECT POLLINATION IN PRAIRIES. Researchers compare insect populations in two types of prairies—virgin prairies and planted restored prairies—to determine if plants in the restored prairie areas are being adequately pollinated.

REX 0127 FISH AND MUSSELS: RESEARCH TOWARDS CONSERVATION. An investigation of the interaction between mussels and fish in order to better understand the ecological needs of mussels and to assist mussel conservation efforts. Anyone interested in fishing, seining, raising fish in aquariums, snorkeling, or using a microscope to observe juvenile mussels is invited to participate in this project.

REX 0128 FUNCTION OF MALE REPRODUCTIVE EFFORT IN MONARCH BUTTERFLIES. A REX volunteer will help rear and maintain monarch larvae and butterflies, set up and record matings, count eggs, and assist with electrophoresis of eggs as researchers examine the large material investment in mating made by male butterflies.

REX 0131 LACUSTRINE ARCHIVES OF ENVIRONMENTAL DYNAMICS. By studying a time series of changes in signatures from lake sediment cores collected across a global network, researchers trace the impact of climate changes on different regions.

Astronomy, Biochemistry, Chemistry, Engineering, Physics

REX 0201 MULTIPHOTON IONIZATION OF SIMPLE LIQUIDS. A study of the wavelength dependents of multiphoton ionization efficiency in benzene, toluene, and p-xylene. Required participant qualification: a four-year undergraduate major in either physics or chemistry. Some experience with lasers and computers would also be helpful.

REX 0203 SURFACE TENSION OF FREE-STANDING LIQUID-CRYSTAL FILMS. University physicists have created a simple and highly demonstrative experimental setup that shows the existence of surface tension in free-standing liquid-crystal films (similar to a soap film) and measures it as a function of film thickness (down to 2-layer films; film thickness $\approx \text{\AA}/\text{layer}$) as well as a function of temperature with a resolution of about $\pm 1\%$. Required participant qualifications: computer experience, patience, and careful handling of equipment.

REX 0205 ENVIRONMENTAL PROPERTIES OF CHEMICALS: EXPLAINED BY PARTIAL MOLAR VOLUMES AT INFINITE DILUTION? Researchers plan to test selected scientific ideas by measuring partial molar volumes at infinite dilution for a series of chemicals that exhibit "unexpected" distribution coefficients (from the results of other work on the series of chemicals).

REX 0206 PROTEIN ENGINEERING OF FATTY ACID BINDING PROTEINS. The goal of this project is to take an existing protein and modify it using a combination of genetic engineering and chemical methods to produce a new protein that will catalyze a new chemical reaction.

REX 0207 SOLVATOCHROMISM OF MIXED SOLVENTS. Probing hydrogen-bonding ability in mixed solvents using spectroscopic methods of investigation. Required participant qualifications: ability to work with instrumentation and computers at a moderate comfort level. General laboratory skills such as pipetting and diluting using volumetric glassware also helpful.

REX 0212 STRUCTURE AND PROTEIN ENGINEERING. The Ohlendorf lab studies the structure of large molecules like DNA and proteins. Knowledge of these structures is used to design better proteins and drugs. Current research is on toxic shock protein, dioxygenases, DNA binding proteins, and other proteins imported in cystic fibrosis.

REX 0216 BEHAVIOR OF HIGH-STRENGTH PRESTRESSED BRIDGE GIRDERS. Assist in the investigation of the application of high-strength concrete to prestressed bridge girders.

REX 0217 PRECAST CONCRETE MEMBERS SUBJECTED TO EARTHQUAKE LOADING. This research program is currently investigating the behavior of several types of connections between precast elements subjected to simulated earthquake loading.

REX 0219 COMPUTER SIMULATIONS OF SOLIDS AND LIQUIDS. Using computers to describe solids and liquids at the atomic level, graphic 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 0220 SUPERCONDUCTIVITY IN ULTRA SMALL STRUCTURES AND THIN FILMS. Explore the production and evaluation of properties of structures that are smaller than those that can be produced using electron beam microfabrication by itself. Required participant qualifications: some undergraduate physics and mathematics, curiosity, and a willingness to learn new things. Computer experience and basic mathematical/computational aptitude also helpful.

REX 0224 EXPLORE ENGINEERING. Design and build portable hands-on teaching tools that introduce engineering and applied science concepts to primary and secondary students. Participants should be willing to work in a shop or a lab and have some shop drawing and word processing experience. Though of special interest to teachers, this project is open to anyone meeting qualifications.

Medicine

REX 0300 TEMPORAL AND SPATIAL EXPRESSION OF GROWTH FACTORS IN REGENERATION. Relying on *in vivo* experiments conducted on a rat model, this project seeks to identify cell dialogues/interactions leading to regeneration rather than scarring after injury.

REX 0301 T-CELLS, CYTOKINES, AND HOST DEFENSE AGAINST *TOXOPLASMA GONDII*. *Toxoplasma gondii* causes severe disease in congenitally infected infants and immuno-suppressed people. Participants will work with the principal investigator to study the basic metabolism of this parasite as well as mechanisms of host defense against *T. gondii* in mice. Inquisitive volunteers are preferred.

REX 0302 FAILURE MECHANISMS OF REVISION JOINT REPLACEMENT. Why does revision total joint replacement not function as well as primary joint replacement? Researchers are identifying the effects of implant motion, particulate wear debris, and bone graft on the ability of bone to grow. Required participant qualifications: ability to work with numbers, knowledge of IBM PCs, and attention to detail. Familiarity with bone biology and orthopedic surgery also helpful.

REX 0303 MOLECULAR FINGERPRINTING OF CANCER. Identify the unique genetic determinants of an unusual form of cancer by using a method of DNA fingerprinting to classify molecules. Volunteers with lab experience preferred.

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. Familiarity with computers, biology, and chemistry is helpful, though not mandatory.

REX 0306 MUSCLE STUDIES: EFFECTS OF HYPERTHYROIDISM ON CERTAIN CHARACTERISTICS OF MUSCLE, MITOSIS IN MATURE MUSCLE, MUSCLE REGENERATION. Characterize what properties in extraocular muscles lead to autoimmune attack in hyperthyroidism in one of three studies. Required participant qualifications: knowledge of basic biology, willingness to work with hands, patience, sense of humor, and some basic understanding of solutions. Computer and microscope experience also helpful.

REX 0307 MUSCULOSKELETAL MODELS FOR COMPUTER SIMULATION OF WALKING. Evaluate an existing model of the lower extremity musculoskeletal system and incorporate findings into use for computer-generated simulations of gait. Participants must be comfortable working on computers and have the ability to work independently and creatively. Programming experience on UNIX computers also helpful, though not mandatory, as is some knowledge of human anatomy and a basic understanding of physics/mechanics.

REX 0308 NEUROBIOLOGY OF PAIN AND OPIATES. In order to develop analgesic agents without addictive properties, this research project employs a variety of techniques to determine the chemistry, anatomy, and pharmacology of pain transmission.

REX 0310 CELL INTERACTIONS IN THE INITIATION OF MAMMALIAN MUSCLE REGENERATION. In this project, regulation of satellite cell proliferation and differentiation will be explored in cell/tissue culture.

REX 0318 AUTOIMMUNE INNER EAR DISEASE. Researchers' goal is to determine if some forms of inner ear disease are autoimmune in nature, that is, if they are caused by a self-directed attack on the ear by their immune system.

REX 0320 ALCOHOL AND DEGENERATIVE DISEASES. This study seeks to develop lab tests for quantification of long-term alcohol consumption.

REX 0322 THE INFLUENCE OF ALUMINUM TOXICITY UPON EMBRYONIC BONE DEVELOPMENT. This project examines the influence of aluminum upon local versus systemic factors that are known to be important in embryonic bone development, using the chick embryo as the experimental model.

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 0336 NEUROIMAGING STUDIES OF BRAIN FUNCTION AND DYSFUNCTION. This project's aim is to identify brain areas involved in specific cognitive functions and possible sites of dysfunction in psychiatric disorders.

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 United States.

REX 0339 3D RECONSTRUCTION OF THE THORAX. Axial sections through a cadaver (from the Visible Human Project, National Library of Medicine) will be used to reconstruct the anatomical structures of the thorax of a human male. Required participant qualification: knowledge of human anatomy.

REX 0340 3D INSTRUCTIONAL COMPUTER PROGRAM FOR MEDICAL STUDENTS. Cadaver sections, magnetic resonance images, and computerized tomographs from the Visible Human Project (National Library of Medicine) will be used to develop an interactive computer program for medical students to help interpret radiological images. Required participant qualification: knowledge of human anatomy.

REX 0341 DIETARY FIBER THERAPY. A clinical study to determine and compare the effects of three dietary fiber supplements. Research addresses the problem of fecal incontinence in adults. Participants must have their own car and a general knowledge of computers, and must respect the confidentiality of the subjects' identities.

Mental Health & Nutrition

REX 0401 NUTRITION EDUCATION DECISION CASES FOR 4-H: EFFECTIVENESS OF CASE METHODS. The purpose of this project is to develop and evaluate nutrition education decision cases for use in elementary and secondary schools or 4-H. Though of special interest to teachers, this project is open to anyone meeting qualifications.

REX 0403 BETTER HEALTH AT LOWER COST. This four-year research project attempts to improve the quality of life for frail elderly people and reduce their need for expensive care in hospitals and nursing homes.

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.

REX 0408 ALZHEIMER'S DISEASE CAREGIVER TRAINING PROGRAM. The aim of this project is to develop an educational program with formal classes and structured practicum for spouses of individuals with early or moderate Alzheimer's disease.

REX 0410 NUTRITION AND ORAL HEALTH OF THE ELDERLY. By interviewing nursing home residents and working with nurses, nutritionists, medical records, and other sources, researchers gather data to understand the connection between good nutrition and good oral health.

REX 0411 ATTITUDES TOWARD AND USES OF SEXUALLY EXPLICIT MATERIALS IN THE UNITED STATES, CZECHOSLOVAKIA, THE NETHERLANDS, AND THE UNITED KINGDOM. Researchers compare cross-cultural attitudes of (1) health and mental health professionals and (2) clients seeking help for sexual problems toward sexually explicit materials of various kinds.

REX 0413 NEURAL MECHANISMS OF HYPERALGESIA. This research team is studying the spinal neural mechanisms that contribute to nociception in rats. The goal is to determine whether excitatory amino acids or opiates can modulate hyperalgesia produced by intraplantar injection of capsaicin.

REX 0419 PERCEPTIONS OF FACTORS THAT CAUSE SUCCESS OR FAILURE IN WEIGHT REDUCTION. It might be that weight loss (plus exercise) could drastically reduce many of the most common and expensive diseases, but there is no agreement on how to prove this. This study attempts to identify the weight reduction measures employed by targeted populations that have succeeded (or failed).

REX 0420 DOUBLE BLIND STUDY OF THETA TRAINING IN THE NEUROFEEDBACK TRAINING OF ALCOHOLICS. Participants will be trained in Quantitative EEG technique, including measurements and electrode application, as they assist the principal investigator in QEEG acquisition and data analysis. Required participant qualifications: curiosity and imagination. Previous experience with alcoholics or biofeedback a plus. Interviewing and computer skills also helpful.

REX 0421 CLINICAL DESCRIPTION OF PARAPHRENIA. Does paraphrenia exist in the U.S.? Researchers at the Minneapolis Veterans Medical Center are looking for answers to this question. Required participant qualifications: social skills, analytical abilities, and computer experience.

REX 0422 MINNESOTA GERIATRIC EVALUATION AND MANAGEMENT (GEM) PROGRAM. This project attempts to improve the quality of life for frail elderly people and reduce their need for expensive care in hospitals and nursing homes. Required participant qualifications: good communication and interpersonal skills, computer literacy. Previous medical experience and familiarity with IBM computers and WordPerfect also helpful.

Archaeology, Geography, History, Sociology

REX 0502 RELATIONSHIPS IN ADOPTIVE FAMILIES. 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 0503 AN INTERPRETATIVE HISTORY OF DULUTH. Part of an ongoing effort to develop a book-length history of the city of Duluth with an emphasis on the democratic process by which the various immigrant communities won a place in the economic, political, and cultural life of the city.

REX 0504 HISTORICAL ATLAS OF THE ST. PAUL CENTRAL BUSINESS DISTRICT. Using Geographic Information System (GIS) technology, assist in the creation of a series of maps showing the development of the central business district of St. Paul.

REX 0507 MISSIONARIES AND THE CONQUEST OF HONDURAN INDIANS. Assistance is needed to transcribe and translate 16th- and 17th-century Spanish documents about early colonial life of the Honduran Indians and the Mercedarian Order mission system.

REX 0511 YOUTH DEVELOPMENT STUDY. A longitudinal study of 1,000 St. Paul youths examining the developmental and mental health implications of working during high school. Along with questions about work, the survey taps other related aspects of adolescent life, including family, peer, and school experiences.

REX 0512 THE EVOLUTION OF THE SPANISH PRESS UNDER DEMOCRACY. Assisting in the organization of a recently acquired collection of newspaper clippings and popular magazines published in Spain in the 1970s and 1980s, a REX volunteer can learn about politics, culture, society, and religion in Spain as it developed into a modern democracy after the death of Generalissimo Francisco Franco in 1975. Reading knowledge of Spanish required.

REX 0516 CONFIGURING FRENCH IDENTITY: TEXTS, IMAGES, INSTITUTIONS. Identify and analyze texts and images that represent the various ways French national identity was constructed during the classical, Enlightenment, and modern periods. Required participant qualifications: reading knowledge of French, ability to analyze readings and synthesize an argument, ability to work independently.

REX 0517 A MAP OF MARINERS IN 18TH-CENTURY SPAIN. Evaluate how well supply met demand in the market for 18th-century maritime labor by researching the records of nearly 38,000 Spanish mariners registered between 1737 and 1739. Required participant qualification: familiarity with or a willingness to learn Excel. Knowledge of written Spanish and experience with Windows software also helpful.

REX 0518 GEOGRAPHY OF EVERYDAY THINGS. Geography from a different view. Examine how interactions between humans become visible through landscapes. Participants will learn how to use information to explain geography effectively to K-12 students. Though of special interest to teachers, this project is open to anyone meeting qualifications.

Business, Ethics, Law, Management

REX 0603 THE FLAT PANEL DISPLAY, U.S. COMMERCIALIZATION OF A NEW INDUSTRY. Although the flat panel display was invented in the United States, Japanese firms successfully commercialized the display and gained control of 95 percent of the market. Can the U.S. reestablish itself within this particular market? Participants with a background or interest in business-government relations preferred.

REX 0604 RACIAL DIFFERENCES IN HOME OWNERSHIP AND MORTGAGE DEBT. Alarming findings from a national health and retirement survey show that African-Americans and Latino respondents with the same income as whites have substantially less net worth than white respondents. Volunteers will help determine why these disparities exist. Required participant skills: proficiency using IBM PCs or University mainframe computers with experience using SPSS, SAS, or similar statistical software.

REX 0605 NETWORK DIFFERENCES IN GROUPS. This project examines why some groups succeed and others fail. In particular, volunteers will examine performance differences in groups due to contrast within the groups' social network. Required participant qualification: interest in organizations or social-psychology.

REX 0606 DO WE KNOW WHO OUR FRIENDS ARE? ACCURATE PERCEPTION OF SOCIAL NETWORKS. Investigate why employees often are unable to distinguish accurately who their friends are within the workplace. Required participant qualification: interest in organizational or social psychological research.

REX 0607 IMPACT OF PROCEDURAL JUSTICE ON EMPLOYEE BEHAVIOR. Impact of procedures on individual self-esteem within the workplace. Required participant qualification: interest in organizational research or social-psychological research.

Communication, Education, Languages

REX 0701 THE GERMAN LANGUAGE IN MINNESOTA. In an ongoing project, the speech of Minnesota natives who speak German is recorded for a linguistic analysis of the changes that have taken place in the language since it was imported into Minnesota.

Noncredit Courses

REX 0703 THE ORIGIN OF ENGLISH WORDS.

This project is part of a University of Minnesota effort to compile a new etymological dictionary of English words.

REX 0705 DECISION CASE STUDY FOR ENVIRONMENTAL EDUCATION. Participants in this project collaborate with the Program for Decision Cases within the College of Agriculture to develop an original decision case study for use in a secondary education curriculum context. Though of special interest to teachers, this project is open to anyone meeting qualifications.

REX 0707 LANGUAGE AND LITERACY DEVELOPMENT OF AMERICAN INDIAN FIRST-GRADE STUDENTS. Literacy development of American Indian students in their first and second languages (English and possibly Ojibwe) is the focus of this study.

REX 0708 INTERNATIONAL CURRICULUM INFUSION. Develop curricula with an international/global focus at both the upper elementary level and in the university teacher education program. Required participant qualifications: teaching background and experience creating curricula with upper level elementary children. Familiarity with the Internet and learning development also helpful. Though of special interest to teachers, this project is open to anyone meeting qualifications.

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.

REX 0802 2D ON 3D. This project deals with flat or two-dimensional images on three-dimensional form. The images change proportion as the viewer changes position. Required participant qualification: the skills of a beginning artist (e.g., simple flat painting).

REX 0804 LETTERS FROM MANILA. *Letters from Manila* is a one-woman theatre piece that explores brutality, endurance, freedom, and forgiveness from the point of view of three different women. Required participant qualifications: some knowledge of theatre, sensitivity to light and sound cues, ability to concentrate and focus during performance. Knowledge of power tools, theatre lighting, computer light board, sound board, or costume and prop construction also helpful.

REX 0806 THE COMPUTER AND ENGLISH POETRY. The English Poetry Full-Text Database contains complete texts of the works of 1,350 poets from the end of the Anglo-Saxon period to 1900. Create written and machine-readable guides to help students and faculty use this new program. Required participant qualification: ability to manipulate computerized text databases in a Windows environment. Knowledge of literature, good written and oral communication abilities, ability to work independently, and computer programming skills also helpful.

Sampling of projects for 1995-96

REX 0108 Management and Genetic Practices That Influence Sheep Production

REX 0215 Impact of Road Information/Incident Advisories on Drivers' Route Choices

REX 0321 Quality of Life After Heart Surgery

REX 0803 Big Tomorrow: Hollywood and the Politics of Multicultural America

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 17th year in Minnesota, Elderhostel is part of a national network that began more than 20 years ago.

Hostelers live in college dormitories, 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 taught by regular college faculty. The cost for a one-week program is \$380 for food, lodging, and class instruction.

July 23-27 and July 27-August 2, Minneapolis Campus: *Sommerfest '95—A Music Fest of Classical Proportions*

Call 624-2862 for details and registration instructions.

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 Continuing Education and Extension, 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 Participation Permit 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.

Students who cancel classes must surrender their permit, which becomes in-

valid immediately upon cancellation.

Students must present the Participation Permit each time they use the facilities. The sports facilities include swimming pools, fitness centers, handball/racquetball courts, squash courts, tennis courts, gymnasiums (basketball, volleyball, badminton) sports fields, etc.

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, advocacy, support, and academic accommodations (e.g., interpreters, readers, etc.), for enrolled and prospective students, as well as consultation and training with faculty and staff to promote access to programs and facilities. 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 624-8400)

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 charge and to receive others at reduced cost.

The cost of the Extended Coverage Benefits Plan is: 10-week term plus 4-week interim, \$135; first 5-week term, \$45; second 5-week term plus 4-week interim, \$90; interim only, \$45. Extended coverage may be purchased at the cashier's window, third floor, Boynton Health Service between 8:30 a.m. and 5 p.m. except Wednesdays (see below). 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 advisor). Coverage must be purchased by June 21 for first summer term or July 28 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 Wesbrook Hall or call 625-3333 and ask

that the Boynton Health Service literature be sent to you. For specific questions concerning the Extended Coverage Benefits Plan, call 624-1471. For insurance 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 8:30 a.m. to 5 p.m., on Mondays, Tuesdays, Thursdays, and Fridays; 10 a.m. to 6:30 p.m. on Wednesdays; closed holidays.

When the Health Service is closed, emergency care is available at the Emergency Department of University Hospital. 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, phonograph records, audiovisual tapes, and other 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

General Information

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, fourth floor; 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 connect 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, dial 1-800-LUMINA. For hardware or software problems, call 626-5592.

Specialized services of University Libraries include in-depth reference service, library instruction, computer-literature searching, inter-library borrowing, and photocopying.

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.

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; West Bank Cashier Section, Burs (W); and St. Paul Cashier Office, 107 Coffey Hall.

Locker rental offices are at the Service Center in Coffman Union for the East Bank, the Skyway Service Center for West Bank, and on the St. Paul campus at 213 Agricultural Engineering and 32 McNeal Hall. 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, 624-5200, for West Bank; and the Coffey Hall Post Office, 625-8284, for the St. Paul campus.

The Coffman Union Service Center, on the ground level of Coffman Union, in

addition to locker rental, offers several other services: postal services; MTC monthly pass and commuter ticket sales; parking coupons; discount movie passes; miscellaneous entertainment coupons and tickets, and campus bus (Route 13) punch cards.

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-PARK. Call 625-0357 to request parking maps.

Motorist Assistance Program (M.A.P.): Telephone 626-PARK—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 transportation or 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 Police Department is your full-service law enforcement agency for the campus community, available to Extension students as to others, for responsive crime control, emergency, and

other related public service and assisting roles.

Strategic priorities of prevention, interception, and investigation are implemented by almost one hundred employees, including over forty security monitors who are University students providing building security and escort services. Sworn officers are extensively trained, certified according to state standards, and completely authorized agents of the criminal justice system. You are urged to help them help you—report crimes, take advantage of informational and prevention programs by the department, and by all the means that can be achieved together—protect yourself. Contact University Police from any campus phone by dialing the appropriate telephone numbers listed below:

- Police-Fire (emergency only) 911
- Escorts (24 hours) 624-WALK
- Non-urgent contacts
(dispatcher) 624-7828
- Police administration 624-2575
- All other
(including program requests).... 624-3550

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

General Information

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.

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.

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 477 in the 1994-95 Extension Classes Bulletin. For information about admission procedures and degree planning, call the CEE Counseling Office, telephone 625-2500, to arrange a day or evening advising appointment.

Degrees

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.)

University College (B.A. and B.S.)

The Inter-College Program

Program For Individualized Learning (formerly University Without Walls)

College of Agriculture

Bachelor of Science in Food Science (B.S.)

College of Human Ecology

Bachelor of Science in Food Science (B.S.)

Continuing Education and Extension

Bachelor of Applied Business (B.A.B.)

Bachelor of Information Networking (B.I.N.)

Graduate Degrees

Master of Arts in English (Graduate School)

Master of Liberal Studies (Graduate School and CEE)

Master of Agriculture in Food Technology (College of Agriculture)

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 1994-95 Extension Classes Bulletin, page 502.

For free academic advising, telephone 625-2500

Campus Buildings

- AmundH, *Amundson Hall*
AkerH, *Akerman Hall*
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 Henn Comm Coll*
CentLib, *Central Library (St. Paul)*
ChDev, *Child Development*
CrstnL, *Christensen Laboratory Building (St. Paul)*
CivMinE, *Civil and Mineral 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, *Electrial Engineering/Computer Science Building*
EltH, *Elliott Hall*
FergH, *Ferguson Hall (West Bank)*
FolH, *Folwell Hall*
FordH, *Ford Hall*
HckrH, *Haecker Hall (St. Paul)*
HHHCtr, *Humphrey Center (West Bank)*
Intermedia Arts, *Intermedia Arts of Minnesota (425 Ontario S.E.)*
IHCC, *Inver Hills Community College, 8445 College Trail, 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*
Mayo, *Mayo Memorial Hospital Avenue, downtown Minneapolis*
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*
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*
VinH, *Vincent Hall*
VoTech, *Vocational-Technical Education (St. Paul)*
WaLib, *Walter Library*

Departments, Course Designators

Acct, *Accounting*
 Afro, *Afro-American and African Studies*
 AmIn, *American Indian Studies*
 AmSt, *American Studies*
 ANE, *Ancient Near Eastern Studies*
 Anth, *Anthropology*
 Arab, *Arabic*
 Arch, *Architecture*
 Art, *Art (formerly Studio Arts)*
 ArEd, *Art Education*
 ArtH, *Art History*
 BAB, *Bachelor of Applied Business*
 Biol, *Biology*
 BFin, *Business Finance*
 BGS, *Business, Government, and Society*
 BLaw, *Business Law*
 Chic, *Chicano Studies*
 CPsy, *Child Psychology*
 Clas, *Classics*
 CSch, *Compleat Scholar*
 CSW, *Compleat Scholar Weekends*
 Comp, *English Composition*
 CDis, *Communication Disorders*
 CSci, *Computer Science*
 CSCL, *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*
 Fren, *French*
 FrIt, *French and Italian*
 GC, *General College*
 Ger, *German*
 Hist, *History*
 Hmg, *Hmong*
 Hum, *Humanities*
 IEOR, *Industrial Engineering/Operations Research*

IR, *Industrial Relations*
 IDSc, *Information and Decision Sciences*
 ID, *Interdepartmental Study*
 JwSt, *Jewish Studies*
 Jour, *Journalism and Mass Communication*
 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*
 MidE, *Middle Eastern Studies*
 Mus, *Music*
 NRES, *Natural Resources and Environmental Studies*
 OMS, *Operations and Management Science*
 Phil, *Philosophy*
 Phys, *Physics*
 PBio, *Plant Biology*
 Pol, *Political Science*
 Port, *Portuguese (see Spanish)*
 PSch, *Practical Scholar*
 Psy, *Psychology*
 PubH, *Public Health*
 RelA, *Religions in Antiquity*
 RelS, *Religious Studies*
 REX, *Research Explorations*
 Rhet, *Rhetoric*
 Scan, *Scandinavian*
 SW, *Social Work*
 Soc, *Sociology*
 Soil, *Soil Science*
 SoAS, *South Asian Studies*
 Span, *Spanish*
 Spch, *Speech-Communication*
 Stat, *Statistics*
 VoEd, *Vocational Education*
 WoSt, *Women's Studies*
 YoSt, *Youth Stuides (Youth Development and Research)*

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Concerts and Lectures
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Minneapolis, MN 55455
(612) 625-9878

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Minneapolis, MN 55455
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Duluth Continuing Education Center

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Duluth, MN 55812
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Morris Continuing Education Center

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Professional Development and Conference Services

David M. Grossman (acting)
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315 Pillsbury Drive S.E.
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(612) 625-8040

Rochester Continuing Education Center

Carol E. Lund
855-30th Avenue S.E.
Rochester, MN 55904
(507) 280-2828

Summer Session

Jack K. Johnson
135 Johnston Hall
101 Pleasant Street S.E.
Minneapolis, MN 55455
(612) 624-3555

University Film and Video

Kay Cooper (acting)
1313 Fifth Street S.E., Suite 108
Minneapolis, MN 55414
(612) 627-4277

University Media Resources

Sheldon Goldstein
540J Rarig Center
330-21st Avenue S.
Minneapolis, MN 55455
(612) 625-5532

Administrative Support Services

Academic Personnel Services
Judith A. Gaston
Academic Personnel Officer
150 Wesbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455
(612) 624-5082

Communication Services

Gayle A. Hendrickson
Director
11 Oak Street S.E., Suite 225
Minneapolis, MN 55455
(612) 624-1045

Development Office

Peter H. Mansfield
Development Officer
326 Wesbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455
(612) 624-7880

Financial, Payroll, and Civil Service Personnel Services

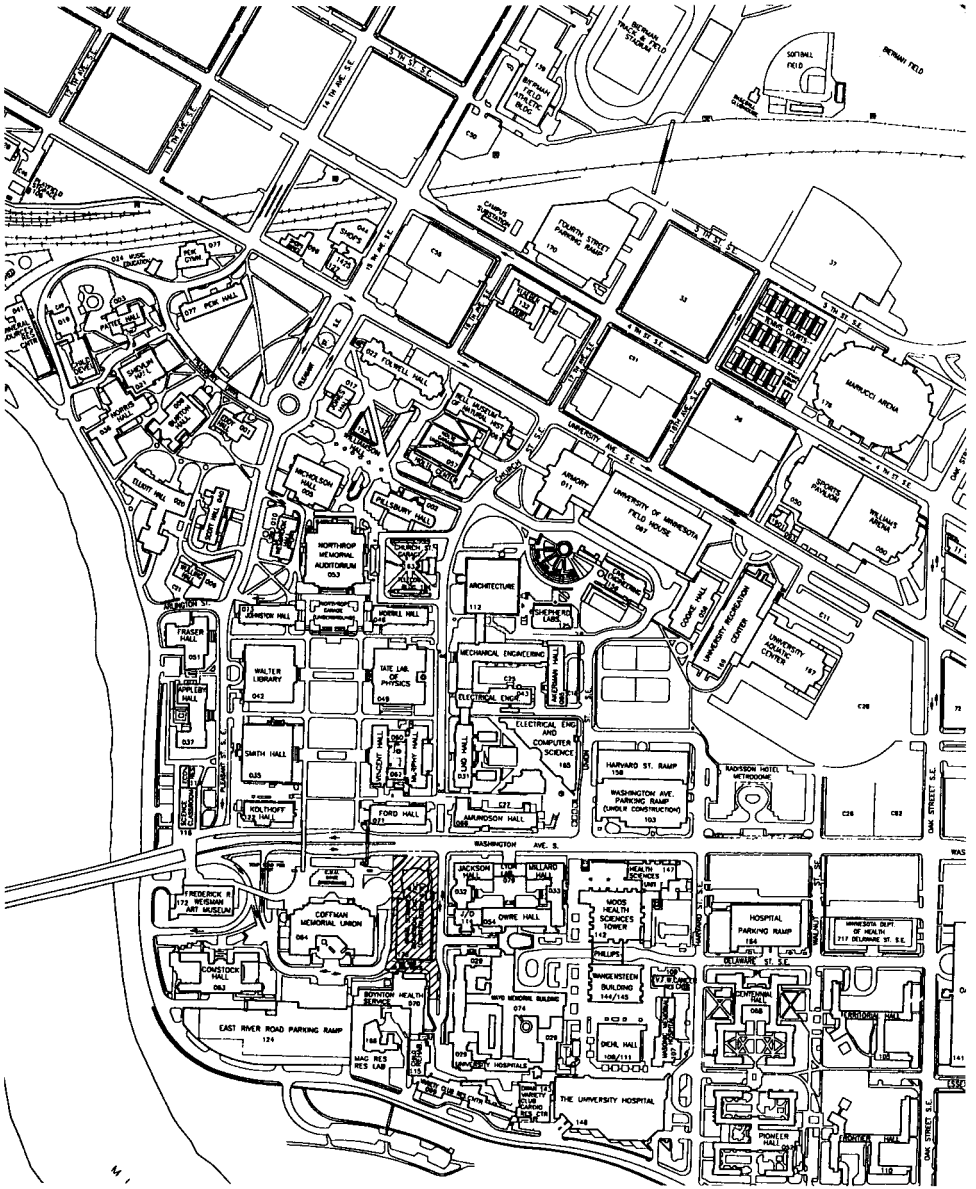
Rebecca I. Hurst
Fiscal Officer
170 Wesbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455
(612) 624-4343

Office of Information Systems

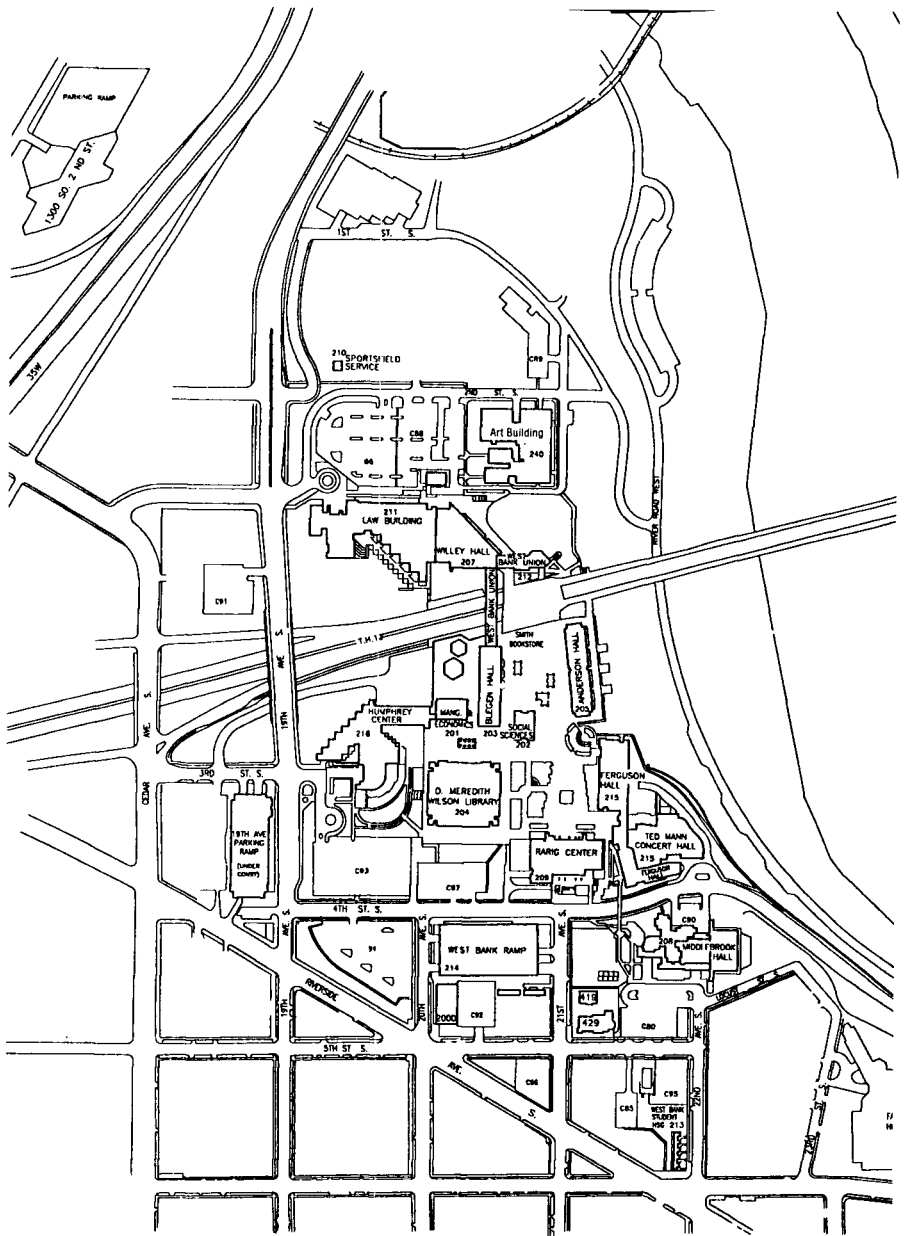
Carolyn Marker
Director
302 Wesbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455
(612) 624-4332

Staff Development

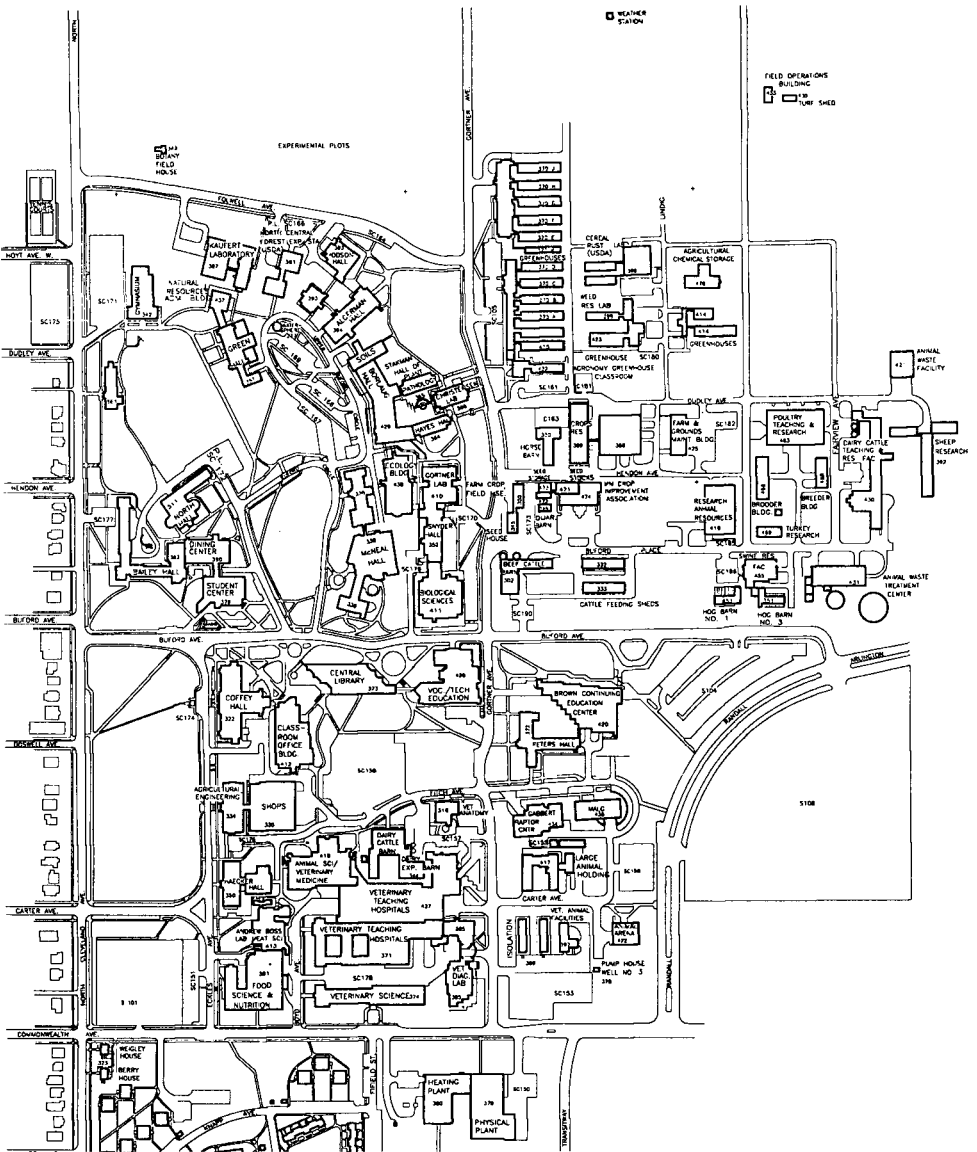
Raleigh Kaminsky
Executive Assistant
150 Wesbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455
(612) 624-9329



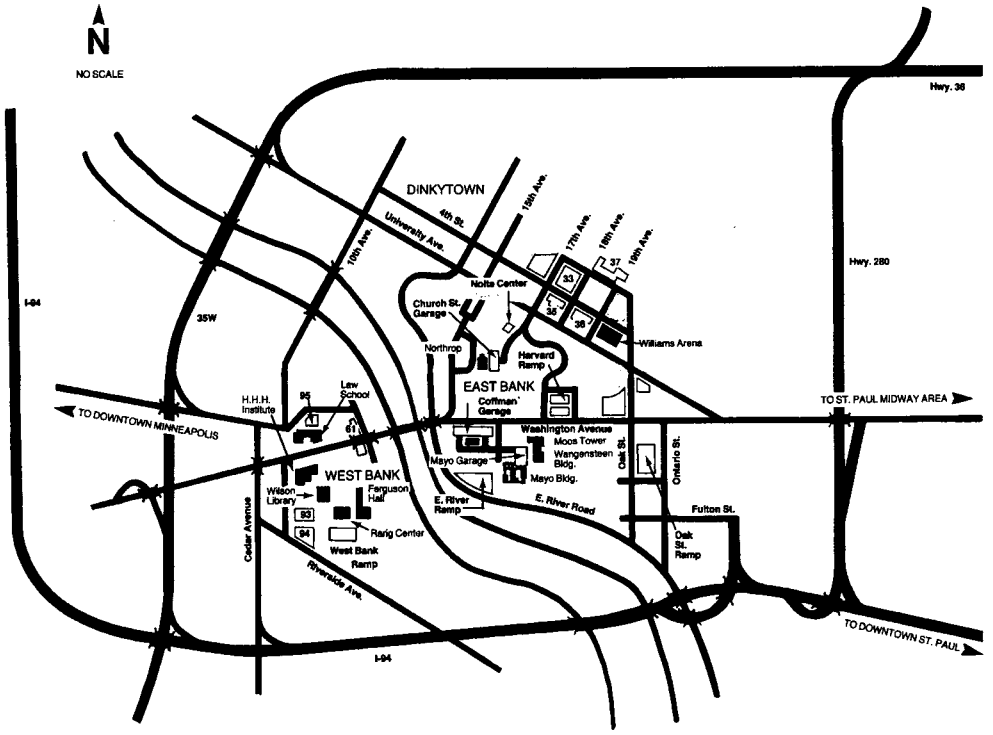
Minneapolis East Bank Campus Map



Minneapolis West Bank Campus Map

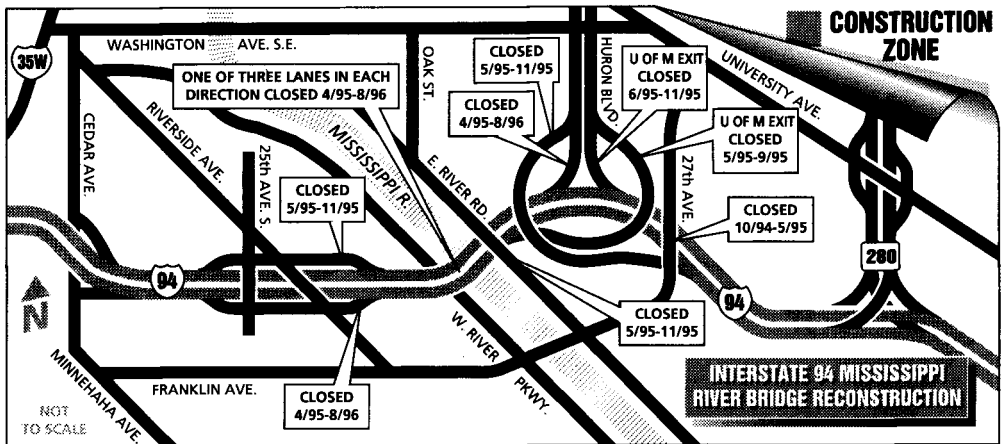


St. Paul Campus Map



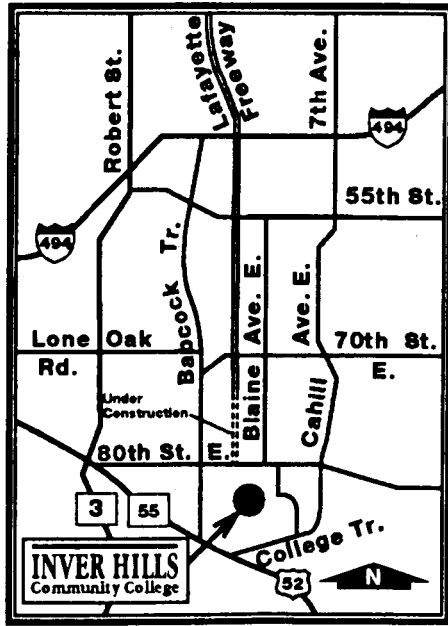
Major Campus Access Routes Map

See Parking Facilities on page 125 in this bulletin for information about parking.

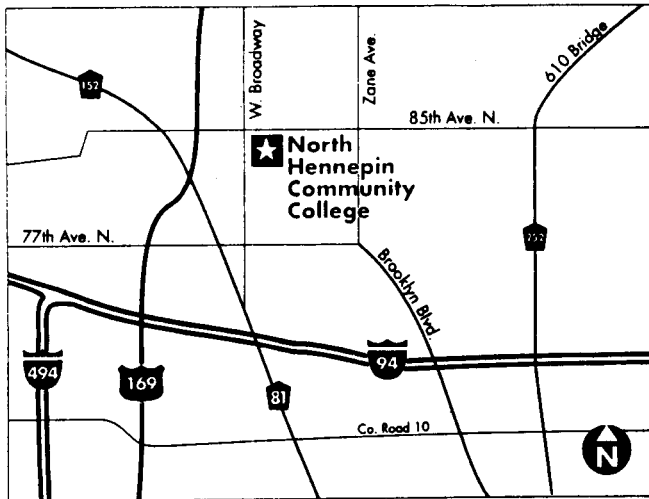


Construction Map

Construction related to repairs on and around Interstate 94 near the University will influence traffic through August 1996. The I-94 bridge over the Mississippi will be limited to two lanes in each direction from April 1995 through August 1996. Closures at different times during the period will affect the U of M I-94 ramps; Riverside Avenue ramps; East River Road bridge; Franklin Terrace; 27th Ave. S.E. bridge; and West River Road Parkway. Motorists traveling to the University should use University Ave S.E. and Washington Ave S.E. if coming from the west (accessible from 35W); University Ave (St. Paul) from the east (accessible from Minn 280); or Como Ave./15th Ave. S.E. from local neighborhoods north of campus.



Inver Hills Community College
8445 College Trail, Inver Grove Heights



North Hennepin Community College
7411 85th Avenue North, Brooklyn Park

Notes

Notes

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APRIL 1995						
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30						

MAY 1995						
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University of Minnesota Bulletin
Extension Classes
University of Minnesota
101 Westbrook Hall
77 Pleasant Street S.E.
Minneapolis, MN 55455

First **5 week term:**

June 12 to July 18

10 week term:

June 12 to August 23

Second **5 week term:**

July 20 to August 23

To correct your name

or address on our list, send the change to:

Extension Classes

University of Minnesota, 100 Westbrook Hall, 77 Pleasant St.

UNIVERSITY OF MINNESOTA



independent
STUDY

This year's cover art was created by Alan Brunettin, a Chicago-area artist whose experiences in painting, sculpture, commercial art, and photography have converged to produce award-winning dimensional illustration. After earning a B.F.A. at Northern Illinois University and studying illustration at Chicago's American Academy of Art, Brunettin turned a passion for photography into a career move. But he soon realized his future was in the "plastic arts" and moved on to devote himself to illustration and fine art. For a few years he worked the Chicago area illustration field, but also took on a variety of sculpture commissions. Later he decided to combine sculpture and photography and turn his talents toward a unique form of dimensional illustration: painted bas-relief. This combination was aided by his knowledge of photography—he could provide clients with everything necessary to reproduce an image. His body of work has garnered recognition from The Society of Illustrators and The Dimensional Illustration Awards show. In the last few years he has enjoyed increased national exposure through the high-profile representation of Lulu Creatives of Minneapolis, Minnesota.

The black and white art on the inside pages of this bulletin was created by Virginia Peck, a Boston-based illustrator who creates her sketches on computer but does the finished pieces by hand on scratchboard. Peck's illustrations have appeared in *Prints Regional Design Annual* and her clients include Carnegie Mellon University, the University of New Hampshire, the *Baltimore Sun*, the *Boston Globe*, Doubleday, Motorola, Acura, and Reebok.

Volume 98, Number 9

July 10, 1995

UNIVERSITY OF MINNESOTA

(USPS 651-720)

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

Equal Opportunity

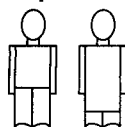
The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation. 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 Patricia A. Mullen, Director, Office of Equal Opportunity and Affirmative Action, University of Minnesota, 419 Morrill Hall, 100 Church St. SE, Minneapolis, MN 55455 (612-624-9547).



4 Ways to Register:

- in person



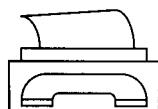
- by mail



- by phone



- by fax



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<p>For general information, call Independent Study:</p> <p>612-624-0000 1-800-234-6564</p> <p>Internet: indstudy@maroon.tc.umn.edu</p>	<p>To register by phone (credit card only): 612-626-6977 1-800-234-6564</p> <p>To register by fax (credit card only): 612-626-7900</p>	<p>For information about Independent Study on World Wide Web or Gopher Hole:</p> <p>Web site: http://www.cee.umn.edu/dis/</p> <p>Gopher: gopher://mail.cee.umn.edu: 70/11/dis</p>	<p>For degree and certificate program advising, call the CEE Counseling Office:</p> <p>612-625-2500</p> <p>Internet: ceeadv@mail.cee.umn.edu</p>
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A Message from the President

The University of Minnesota offers hundreds of academic programs. Unique among them is that provided by the Department of Independent Study. The program affords special opportunities to students of all ages and backgrounds, of all interests and geographic locations, to participate in the design and determination of their educational pursuits. It is self-directed and self-paced study. At the same time, it retains the academic rigor and quality that have long characterized educational activities at the University of Minnesota. I encourage anyone who is interested in a different but nevertheless challenging approach to lifelong learning to consider the Independent Study program.



Nils Hasselmo
University of Minnesota

A Message from the Dean

Distance education has taken the United States by storm: computer-assisted courses, courses over the Internet, World Wide Web, and interactive television fill the media. It seems as if every university is crowding onto the "on-ramp" to the information highway. The courses listed in this bulletin are distance education courses, allowing you to complete University of Minnesota courses that can be used toward a degree or certificate or just to give you a systematic and guided study of a given topic. Most of the courses are at the most accessible level: correspondence study where all the equipment you need is a mailbox. Approximately 50 courses allow you to use e-mail to submit assignments, many use media, and a few are designed to allow computer-assisted study.

Join our Independent Study students from all over the world as you continue your education at the University of Minnesota.

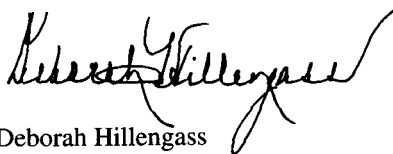


Harold A. Miller
Continuing Education and Extension/University College

A Message from the Director

We welcome you to Independent Study, a department with a proud history and a progressive future that currently offers more than 300 courses by correspondence, some of which also use audiocassettes, videocassettes, computer software, and other distance education technologies. Students from all walks of life and from all over the world take our courses. We call your attention to several innovative options, such as e-mail assignment exchange between students and faculty and two technological initiatives available for graduate credit: Group Independent Study using interactive television and FScN 5111, a course available entirely on the Internet. Courses with these options are marked with icons to help you locate them.

Also to assist you, we have reorganized the front pages of our bulletin. Rather than an all-encompassing "General Information" section, we now have five separate sections: how to register, tuition and related financial topics, course submissions and completion, policies and procedures, and student services. We hope this bulletin reorganization, as well as our many curriculum improvements, will make your experience with Independent Study a rewarding one.



Deborah Hillengass
Independent Study

University of Minnesota

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Summer Session, Jack K. Johnson, 135 Johnston Hall, 101 Pleasant St. SE, Minneapolis, MN 55455; 612-624-3555

University Film and Video, R. Kay Cooper, Acting Director, 1313 Fifth St. SE, Suite 108, Minneapolis, MN 55414; 612-627-4274

University Media Resources, Sheldon Goldstein, 540C Rarig Center, 330-21st Ave. S., Minneapolis, MN 55455; 612-625-5532

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Communication Services, Gayle A. Hendrickson, Director, 11 Oak St. SE, Suite 225, Minneapolis, MN 55455; 612-624-1045

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Office of Information Systems, Carolyn Marker, Director, 302 Wesbrook Hall, 77 Pleasant St. SE, Minneapolis, MN 55455; 612-624-4332

Staff Development, Raleigh Kaminsky, Coordinator, 150 Wesbrook Hall, 77 Pleasant St. SE, Minneapolis, MN 55455; 612-624-9329

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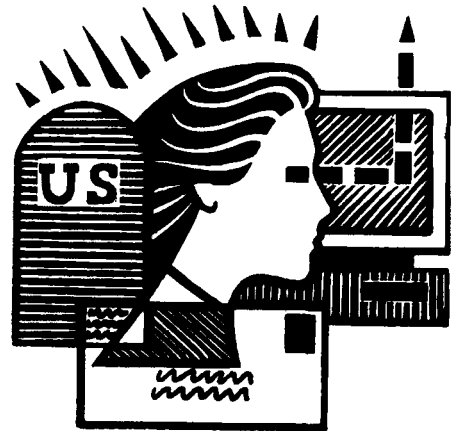
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Marilyn Smith, Student Services

Jeanne Swope, Course Production

In order to make registering as easy to understand as possible, we grouped all the details about it in this section. It includes information about

- admission and accreditation;
- academic progress, credits, and faculty;
- selecting a course;
- ways to register; and
- a sample registration form.



Admission

There are no entrance requirements for admission to Independent Study, although registration in specific programs or courses may require prerequisite study or experience. Prerequisites are noted with the course descriptions in this bulletin. Most courses may be started at any time and must be completed within one year from the date of registration. The following dates define quarter of registration as it will appear on your transcript:

6/12/95 through 8/23/95—summer
8/24/95 through 12/9/95—fall
12/11/95 through 3/16/96—winter
3/18/96 through 6/8/96—spring

Please note: Quarterly registration dates for Independent Study do not correspond to the registration dates for day and evening classes.

Accreditation

The Department of Independent Study, a unit of Continuing Education and Extension at the University of Minnesota, is accredited by the North Central Association of Colleges and Schools. College courses are approved by the appropriate University of Minnesota academic department. High School courses are approved by the Minnesota State Department of Education.

Academic Progress

Academic progress for students enrolled in degree-granting programs will be monitored by their college offices. CEE will determine academic progress for students admitted to CEE certificate programs and some nonadmitted CEE students not held to college standards.

Students receiving financial aid through the University's Office of Scholarships and Financial Aid (OSFA) will be held to a similar, but possibly different, standard. Financial aid recipients must meet the college academic progress standard **and** the OSFA satisfactory academic standard. Elements of the OSFA policy include cumulative grade point average (GPA), academic year minimum credit requirement, and maximum time of financial aid eligibility. When students apply for aid, the OSFA standard will be applied to past performance;

students who did not receive financial aid will be evaluated on the same basis as students who received aid.

Undergraduate students with a GPA of less than 2.0 (a C average), a continuing inability to complete courses successfully, or lack of a plan to move toward timely completion of their degree or certificate may not meet the OSFA satisfactory academic progress standard. Withdrawals, incompletes, failing grades, audited courses, and some repeated courses will not be counted as completed credits for the academic year minimum credits requirement.

For information about OSFA standards for all programs, refer to the "1995-96 Information Guide for Financial Aid Recipients" that is mailed with the OSFA Financial Aid Notification letter or contact the Office of Scholarships and Financial Aid, University of Minnesota, 210 Fraser Hall, 106 Pleasant St. SE, Minneapolis, MN 55455 (612-624-1665). For more information about CEE academic progress or appeals, contact CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Drive SE, Minneapolis, MN 55455 (612-625-2500).

Credits

The University of Minnesota uses the quarter hour as the basis of credit evaluation. A quarter hour equals approximately two thirds of a semester hour. All credits listed in this bulletin are quarter-hour credits. The following credit designations are used in course descriptions.

Degree Credit. Officials at colleges or universities determine which Independent Study courses will be accepted to fulfill degree requirements at their institutions. To receive degree credit for Independent Study courses, you should obtain approval from your own institution before enrolling. University of Minnesota students should consult an adviser in their major department (see the *University Degrees and Programs* section) or CEE Counseling at 612-625-2500 or Internet: ceeadv@mail.cee.umn.edu.

No Credit. Although no credit is given for some courses, grades may be assigned and a record entered on your transcript. (Also see *Credit Course on a Noncredit Basis* below.)

Resident Credit. The courses listed in this bulletin parallel or are equivalent to courses with the same title and course number offered in day classes at the University. Through action of the University Senate, Independent Study credits are considered resident credits. Some colleges, however, have restrictions on how many Independent Study credits can be used in degree programs or toward college residency requirements.

Graduate Credit. Also see the *University Degrees and Programs* section, *Graduate School*. Some Group Independent Study (GIS) courses are offered for graduate credit. If you want graduate credit, enroll in the GIS version of the course (not the correspondence version), and pay the correct graduate tuition (see *Tuition, Course Materials and Fees, Financial Aid*). Check with an adviser in your department to see whether Independent Study courses count toward your graduate program. See the *Technology-Enhanced Courses* section for GIS courses and class meetings; then check the *Course Descriptions* section for tuition and other information.

Credit Course on a Noncredit Basis. Simply write NC (noncredit) in the Credits column of the registration form. Usually instructors expect the same quality and quantity of work. To change from a noncredit to a credit registration, see the *Policies and Procedures* section; *Cancellations, Cancel/Add*. Enrollment in a credit course on a noncredit basis requires payment of full tuition. Noncredit registration **cannot** be used toward degrees or certificates.

Credit by Exam. If you want to earn credit for your extensive knowledge in a specific subject area and can demonstrate proficiency by successfully completing the required

exam(s) for a course, contact Independent Study to see if credit by exam is authorized for the course you want. The tuition for credit by exam is \$50 (payment in full). You may take your exams either at the office of Independent Study or under the supervision of an approved proctor (see *Examinations*). You may be asked to provide the following information in addition to the completed registration form and payment:

- a letter describing your background and reason for choosing this method, and
- a transcript of all college-level work.

Faculty

The authors and instructors for all Independent Study courses are approved by the University academic departments through which the courses are offered. In most cases, Independent Study authors/instructors are faculty members at the University, although faculty from other colleges and universities, or specialists in professional and business fields, also teach Independent Study courses. The authors/instructors are listed after each department or subject area in the *Course Descriptions* section of this bulletin.

Selecting a Course

You are responsible for enrolling in a course appropriate to your needs and educational level, and completing it. Generally, we recommend that you enroll in only one course at a time. See the *Course Descriptions* section for information on our courses. See the *Course Submissions and Completion* section for information on how to complete a course and *Reinstatements*, and the *Policies and Procedures* section for information on *Cancellations*. Detailed information about a course can be obtained by calling or writing Independent Study for a free introduction to the course study guide. The introduction will tell you more about course objectives, requirements, and materials. Use the form at the end of this bulletin. Study guides are available for inspection at the Independent Study office.

Some colleges and universities set restrictions governing the acceptance of Independent Study credits. Contact your college or department office before enrolling in a course if you plan to apply it to a specific program. Credits for our Duluth and Morris courses will appear on your U of M Twin Cities transcript. If you have any questions about the applicability of credits at the University of Minnesota, contact CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Drive SE, Minneapolis, MN 55455; e-mail ceeadv@mail.cee.umn.edu; telephone 612-625-2500.

Reading Course Descriptions

In order to choose a course appropriate to your educational needs, wants, and abilities, it is important that you understand the course description format used in this bulletin.

- Courses are listed under **departmental or subject headings**, alphabetically arranged. Where other classifications are possible, cross references are given. Also refer to the index.

- The University uses the following college course numbering system.

0001 to 0998 Noncredit courses
 1000 to 1998 Introductory courses primarily for freshmen and sophomores
 3000 to 3998 Intermediate courses primarily for juniors and seniors; also open to other students with at least a C average and the necessary prerequisites
 5000 to 5998 Advanced courses for juniors, seniors, and graduate students (credits earned through Independent Study, except for specified Group Independent Study courses, are **not** accepted as graduate credit in the University of Minnesota Graduate School)

- Generally, 3xxx- and 5xxx-level courses are more difficult than 1xxx-level courses. You may register in any course you believe you can successfully complete. However,

How to Register

you must **meet the prerequisites**. If you have any questions about course difficulty, contact the instructor (in care of Independent Study) or CEE Counseling.

- New courses, those that are technology-assisted, and those available for graduate credit are marked with icons:

new	new course	video	video-assisted
audio	audio-assisted	computer	computer-assisted
Internet	Internet	group	Group Independent Study
e-mail	e-mail	grad	graduate credit available

- If audiocassettes are part of the learning materials of a course, you can purchase them from Independent Study or listen to them at the Learning Resources Center, 15 Walter Library, Minneapolis campus (612-624-1584).
- You can either rent required videocassettes and view them at home for six months or watch them at one of the University's learning centers. If you choose to rent videocassettes, fill in the "Video tapes" space on the registration form and include the \$50 rental fee (\$25 deposit and \$25 rental). The \$25 deposit fee will be refunded when you return the videocassette to Independent Study in good condition. You can use the video for six months, but have one year to complete the course. If you do not return the video, a hold will be placed on your University record. If you lose or damage a video, you will have to pay to replace it (usually \$50). Video courses are only available in the United States and Canada. Videos are also available for viewing at the following University learning centers: Twin Cities, 15 Walter Library (612-624-1584); Duluth, 220 Library Reserve Multi-media Desk (218-726-6120); Morris, 232 Community Services Building (612-589-6456); and Rochester, 855 SE 30th Avenue (507-280-2828 or 1-800-947-0117). Call the center you want to visit to check its open hours and video availability. If the programs you need are not available at a center, call 612-624-4393 to ask about them; sometimes arrangements can be made to send them to a center.
- The description below indicates the information found in all college course descriptions in this bulletin. Specific information for a given course may change during the year as a course is revised or adapted to new texts or if a new instructor is appointed.

1	2	3			
Mus 5702 American Music: Twentieth-Century American Music (A376)					
4	5	6	7	8	9
6 assignments—1 exam—\$308—4 degree credits—text price \$37—study guide \$10—10 audiocassettes \$30.75—Riedel					
10	11				
audio	e-mail	12			

13

Analysis of American music during this century: folk, popular and classical, black and Chicano, opera and symphony, contemporary. Background knowledge of musical terms necessary. **See the *Technology-Enhanced Courses* section.**

1. Department designation and course number
2. Course title
3. Department of Independent Study (DIS) reference number
4. Number of assignments (If a course lists a small number of assignments, they usually require more preparation.)

5. Number of exams
 6. Tuition (undergraduate rate/graduate rate [if applicable]—see p. 11)
 7. Number of credits
 8. Price of texts
 9. Price of study guide and supplement (if applicable)
 10. Price of audiocassettes, videocassette rental, lab kits, or other special materials
 11. Author's/instructor's last name (faculty are listed after each department or subject heading)
 12. Icons indicating that audiocassettes and e-mail assignment submission are used with this course (see above)
 13. Course content and prerequisites, if any
- If you need or want a course not listed in this bulletin, it may be available from one of the other member institutions of the National University Continuing Education Association (NUCEA). See *Professional Associations*, below, for more information.

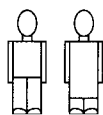
Professional Associations

The Department of Independent Study is a member of the Independent Study Division of the National University Continuing Education Association (NUCEA). The division publishes *The Independent Study Catalog*, which lists Independent Study courses offered by 71 colleges. It is available from Peterson's Guides, P.O. Box 2123, Princeton, NJ 08543-2123. Write to Peterson's Guides for the price of the catalog, or call 1-800-225-0261. You may look at a copy of the catalog at the Department of Independent Study, 45 Wesbrook Hall, if you wish. It may also be available at your local library.

Many of the staff at Independent Study belong to the American Association for Collegiate Independent Study (AACIS), a professional organization for people engaged in or interested in collegiate independent study. Its primary focus is the professional development of its members through annual workshops, a newsletter, and networks—personal, telephone, and e-mail—so they can produce the highest quality courses and services for students.

Ways to Register

- You can register for most Independent Study courses at any time.
- There are four ways to register.



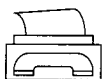
In person: 45 Wesbrook Hall, Minneapolis campus of the University



By mail: Department of Independent Study
University of Minnesota
45 Wesbrook Hall
77 Pleasant St. SE
Minneapolis, MN 55455



By phone: 612-626-8977 or 1-800-234-6564
8 a.m.—3:30 p.m., credit card only



By fax: 612-626-7900, credit card only

- Complete the registration form at the end of this bulletin (see the sample on the next page). All the information on this form is private data. Some of this information will be used for identification and to establish your student record, and other information is

How to Register

required for federal reporting purposes; the rest will help us learn more about your educational needs as we design our courses and programs.

- After you register, you will receive a fee statement/course confirmation form, comprehensive study guide, computerized submission forms, and mailing labels. Students who have not received a fee statement/course confirmation form three weeks after mailing in their registration and tuition should call 612-624-0000.

Senior Citizens

Minnesota residents 62 or older may register for Independent Study noncredit courses at no cost, and in credit courses for a fee of \$6 per credit. Senior citizens who enroll in credit courses for no credit (see *Credits, Credit Course on a Noncredit Basis*) must also pay the \$6 per credit fee. Registrants are required to pay for the study guide (\$10), supplements, texts, supplies, other required materials, postage/handling (for texts ordered by mail), and to provide a photocopy of an ID. For further information, call 612-624-0000 or 1-800-234-6564, or write to Independent Study.

Sample Registration Form

UNIVERSITY OF MINNESOTA
Continuing Education and Extension
Department of Independent Study

45 Westbrook Hall
77 Pleasant Street SE
Minneapolis, MN 55455
612-624-0000
800-234-6564
Fax: 612-626-7900

Registration Form—Please Print Using Ink

0	0	0	1	2	3	4	5	6	0	1	0	2	0	3	0
D	o	e													B
M	a	r	y									M	s		

*Address 1234 Any Street
 *City Minneapolis *State MN *Zip Code 55400
 County Hennepin Country United States
 Home Phone # (612) 555 — 6789 Work Phone # (612) 555 — 1234
 Birthdate 01/ 02 / 71 Male Female

TERM/YEAR	CRS. NO.	DEPT.	COURSE NO.	COURSE TITLE	CREDITS	A-F OR S-N	TUITION
FQ 95	5805	Ger	1101	Beginning German I	5	A-F	\$397.50
							\$

Have you enrolled in a University of Minnesota Independent Study course before? Yes No
 Have you completed the prerequisites? Yes No G.I. Bill registration? Yes No
 Group Independent Study? Yes No PSEO? (High school students enrolled in college courses) Yes No

					3	9	7	5	0
					5	1	0	0	
					1	4	0	0	
					5	0	0	0	
					1	3	7	5	
					5	0	0		
					1	3	1		
					5	3	2	5	6

Method of Payment: Cash Check Visa MasterCard Discover Bill to Department/ Company (attach authorization, including address)

Credit Card # 1234-5678-9012-3456 Exp. Date 06/96

Cardholder Signature Mary B. Doe

You are responsible for all policies in the Independent Study bulletin.

Student's Signature Mary B. Doe Date 8/03/95 →

Tuition, Course Materials and Fees, Financial Aid

You will find all the information that pertains to costs in this section, including

- the tuition for Independent Study college credit and noncredit courses;
- information on postage, required texts and other supplies, taxable supplies, possible tax deductions; and
- the financial aid students may be eligible for, and whom to contact to obtain information about it.



Tuition

Tuition for Independent Study courses is \$79.50 per credit for 0000- and 1000-level courses. The tuition for 3000- and 5000-level courses varies by school. At the time this bulletin was printed, tuition and fees had not yet been approved by the board of regents and are subject to change without notice. The tuition for each course is listed with the course description. Texts and supplies are not included in the tuition and must be purchased separately (see *Course Materials, Textbooks and Supplies; Postage*). You must register for Independent Study courses directly with the Department of Independent Study; Independent Study has no commercial agents in this country or abroad. You must pay all fees in American currency (U.S. dollars).

If you register for graduate credit for specified Group Independent Study courses (see the *University Degrees and Programs* section, *Graduate School*), you must pay graduate tuition. Two graduate tuition rates are listed with each of these courses in the *Course Descriptions* section. The first is for students using the course in a University of Minnesota Graduate School program (marked "Grad. School, U of M"). The second is for students using the course in a graduate program at the College of Education (M.Ed.), the School of Public Health (M.P.H.), or for transfer to another institution (marked "grad rate, other schools").

There are several ways to pay the tuition for an Independent Study course.

Check or Money Order

Mark the appropriate box under Method of Payment on the registration form. Please make your check or money order (in U.S. dollars) payable to the University of Minnesota.

Returned Check—If your tuition check is returned because of insufficient funds or a stop payment request:

1. your registration in the course will be canceled, and
2. a hold will be placed on your University record until you pay **all** of the following:
 - a. a \$20 check handling fee
 - b. a \$20 course cancellation fee or 25% to 100% of tuition (depending on registration date and the number of assignments submitted)
 - c. the cost of the course study guide, supplies, and texts (if applicable)

Credit Card

You can use your Visa, MasterCard, or Discover card to pay for the tuition, fees, and texts/supplies for an Independent Study course. Check the appropriate box under Method of Payment on the registration form. Be sure to fill in the Credit Card Information and the name of the credit card holder on the appropriate lines.

Authorization Payment Plan

If your tuition is paid by: (1) an institution, company, or scholarship; (2) a federal or state agency, including military service; or (3) a foreign government or agency, you may register by mail or in person. Check the box labeled Bill to Department/Company on the registration form. Include your written authorization (in place of your check) with your registration form. The authorization must include the following:

1. A letter addressed to: Department of Independent Study, University of Minnesota, 45 Wesbrook Hall, 77 Pleasant Street SE, Minneapolis, MN 55455
2. Student's name
3. Correct amount of tuition and fees for a specific course
4. Term or date of eligibility
5. Authorizing signature or stamp required
6. Complete address of agency to be billed for tuition.

You will be billed if the department/company does not pay.

Refunds

Tuition Refunds—Part of your tuition can be refunded if you cancel within 90 days of the date of registration and if you have not submitted more than half of the assignments in the course. **Improper advisement, changes in credit requirements, or simply not submitting assignments does not entitle you to a refund.**

Refund schedule:

- **100% tuition refund less \$20 cancellation fee**—registration day through day 30 (no assignments submitted)
- **75% tuition refund**—registration day through day 30 (from one assignment submitted through half of the assignments submitted)
- **50% tuition refund**—day 31 through day 60 (from no assignments submitted through half of the assignments submitted)
- **25% tuition refund**—day 61 through day 90 (from no assignments submitted through half of the assignments submitted)
- **No refund**—day 91+

Miscellaneous Refunds—Study guides, audio tapes, lab kits, computer disks, and special equipment are **not** returnable for refund. Textbooks may be refundable (see *Course Materials* below). If you return a required videocassette within six months in good condition, your \$25 deposit will be refunded (see the *How to Register* section, *Reading Course Descriptions*).

Course Materials

If you paid by credit card or an authorization payment plan, your refund will be credited to your account. If you paid by check, cash, or money order, a refund check will be mailed to you. The refund process takes approximately five weeks.

Study Guides—You are required to purchase the study guide for most audio-assisted and video-assisted courses; the cost is given with the course description. Fill in the Study Guide line on the registration form. You are not required to pay for the study guide for most other Independent Study courses.

If you are not enrolling in a course but would like to purchase a study guide, contact the Department of Independent Study for price and availability.

Textbooks and Supplies—It is important to **purchase the required texts/supplies used in a course when you register** and to begin submitting assignments soon after you register. Tuition does not cover the cost of texts and supplies. Because text editions may be updated by publishers, the required texts/supplies may become unavailable at a later date. In this situation, you will not be able to complete the course, will not be allowed to reinstate your registration, an F or N will be placed on your transcript, and therefore you will have to reenroll in the current version of the course and pay current tuition rates if you want to earn credits for the course. The texts and supplies needed for a course are listed in the course study guide.

You can buy your texts in person at the Information counter in the Minnesota Book Center (Williamson Hall, Minneapolis campus) or by mail through Independent Study. To order books by mail, mark the appropriate spaces on the registration form and add the amount for the texts (given in the course description) plus the appropriate postage/handling fee (see *Postage*) to your tuition check. The price of new texts/supplies is given in the *Course Descriptions* section. Sometimes only used texts are available, at a reduced price. If only a used text is available, the price difference between a new and a used text will be refunded to you. Allow two or three weeks for delivery of texts and supplies. Study guides, lab kits, audio tapes, computer disks, and special equipment are **not** returnable for refunds.

If you want to **sell your books after completing a course**, contact the Minnesota Book Center, University of Minnesota, Williamson Hall, 231 Pillsbury Dr. SE, Minneapolis, MN 55455; telephone 612-624-1819. Only books in current use will be purchased.

Full refunds for texts will be given only if you cancel your course registration and return your texts within **three months** of the date of registration, have **not** submitted any lesson assignments, and have not written in your texts. A text is considered used or a buy back if there is any writing in it. If you cancel a course after three months, your texts will be considered buy backs.

Procedures for returning books after canceling registration in a course are given below.

- If you purchased books in person at the Minnesota Book Center, obtain a Textbook Return Form at Independent Study for verification of cancellation. Then bring the verification and your texts to the Minnesota Book Center, where your refund will be processed.
- If you ordered your books by mail, bring or send your texts to Independent Study, where your cancellation will be verified and your textbook refund processed. Postage fees are not refundable. The refund process takes approximately five weeks.

Other Materials—See the *Technology-Enhanced Courses* section for information on computer disks and the *How to Register* section for information on audiocassettes and videocassettes.

Postage

You pay postage on all mail you send to Independent Study. The department pays for delivery of the study guide (for students who enroll by mail) by fourth-class mail and the return of corrected lesson assignments by first-class mail. If your address does not have a U.S. zip code or an APO/FPO, you must pay for airmail delivery of texts/supplies and airmail return of assignments and exams.*

First-class postage/handling for texts and supplies to Canada is \$14, and the materials will be sent via airmail. Canadian students do not need to include airmail postage/handling for return of lessons assignments and exams.

Overseas students must pay for lesson assignments, texts/supplies, and tapes to be sent airmail by enclosing special fees* with their registration. Students must assume financial responsibility for the loss of texts and materials sent overseas.

Fill in the appropriate space on the registration form and include the postage fee. Independent Study charges the following postage/handling fees **per course**:

- Fourth-class postage/handling for texts/supplies\$10.00
- First-class postage/handling for texts/supplies\$14.00
- Airmail postage/handling of texts/supplies\$40.00*
- Airmail postage/handling to return lesson assignments/exams\$14.00*
- Express Mail, UPS, and other carriers **cannot** be used by Independent Study.

Postage fees are not refundable.

Reenrollment and Reinstatement

See *Course Submissions and Completion*.

Taxable Items

Minnesota residents are required to pay sales tax on some supplies used in Independent Study courses. Minneapolis, St. Paul, and Rochester residents (or those who purchase supplies at Independent Study's office) have to pay the Minneapolis sales tax rate. If you are ordering taxable supplies, fill in the appropriate space on the registration form.

Taxable items:

- audiocassettes
- lab kits
- special materials
- computer disks

Nontaxable items:

- textbooks
- videocassettes

You are encouraged to order your texts/supplies at the time you register; if you want to know whether or not to include tax on a specific item, call Independent Study.

Tax Deduction

An income tax deduction may be allowed for the expenses of University Continuing Education and Extension programs undertaken to maintain and improve professional skills. For more information about tax-deductible educational expenses, persons in the Twin Cities can call the Internal Revenue Service at 612-644-7515. Persons living outside the Twin Cities area can call (toll free) 1-800-829-1040.

Financial Aid

Financial aid options for Independent Study include several grants and scholarships, Veterans Administration benefits, Department of Rehabilitation Services funds, and employer assistance. Some financial aid programs **cannot** be used for Independent Study (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work-Study, federal and state educational loan programs, and other University of Minnesota grants, loans, and scholarships administered by the Office of Scholarships and Financial Aid).

Financial Aid Advising—If you have questions or problems with financial aid, please write or call CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Drive SE, Minneapolis, MN 55455; e-mail, ceeadv@mail.cee.umn.edu; telephone, 612-625-2500.

Important Registration Dates—If you are receiving financial aid or verifying enrollment for deferment of student loan payments, your registration must fall within the starting and ending dates for the corresponding quarter. The following dates define quarter of registration:

6/12/95 through 8/23/95—summer
 8/24/95 through 12/9/95—fall
 12/11/95 through 3/16/96—winter
 3/18/96 through 6/8/96—spring

If you are deferring repayment of a student loan awarded in a previous year, you need to enroll at the level of enrollment specified by your lender and then register for additional credits each new quarter. (Example: If you enroll half-time fall quarter, you must register for at least six additional credits winter quarter and for at least six more credits spring quarter.)

Independent Study students may be eligible for the financial aid programs listed below.

Business Firms—Many businesses help subsidize the education of their employees. Before enrolling, you are urged to talk with your company's personnel or education officer about possible tuition assistance for Independent Study.

Minnesota State Grant—Minnesota State Grant (MSG) provides funds for part-time enrollment through Independent Study. Eligibility requirements are: U.S. citizen or permanent resident of the United States; Minnesota resident; enrollment in coursework applicable to a degree or certificate program and maintenance of satisfactory academic progress; registration **exclusively** through Independent Study for a minimum of 3 credits per quarter (no additional registration through Extension classes or day school); and demonstration of financial need. In addition, applicants must not have already earned a bachelor's degree and must not have completed more than four years of education on a full-time basis beyond high school. If you are unable to pay your tuition and fees prior to disbursement of your MSG funds, contact a financial aid adviser in CEE Counseling for information about delayed payment. To be considered for delayed payment, your record at the University of Minnesota must show eligibility for the Minnesota State Grant award and must be free of tuition and other selected holds. Applicants use the Free Application for Federal Student Aid (FAFSA), which is available at CEE Counseling, 314 Nolte Center (612-625-2500).

CEE/UC Tuition Assistance Program—This program is for part-time adult students who have financial need but are ineligible for other grants, scholarships, or tuition reimbursement, or whose financial aid falls short of covering tuition, fees, and books. Applicants must reside in Minnesota, be U.S. citizens or permanent residents, not have a bachelor's degree, and have a gap of at least three years in their education. The years counted in the gap do not need to be consecutive. Students enrolled for five years or more

exclusively on a part-time basis will also be considered. Eligibility is based on current income, household size, and special expenses. Applicants must be admissible to the University of Minnesota and maintain satisfactory academic progress. TAP awards cover tuition and a book allowance for one or two classes a quarter. For additional information or an application, contact CEE Counseling, 314 Nolte Center (612-625-2500).

Aid for Students with Disabilities—Funds are available through most state departments of education. Minnesota residents can obtain information about the Minnesota Department of Rehabilitation Services (DRS) from the DRS Liaison, 30 Nicholson Hall (612-626-1333), or from local Department of Rehabilitation Services offices.

The Remington Scholarship—The Gilford and Esther Remington Scholarship Fund was established by Mrs. Remington to provide financial assistance each year to one or two students enrolled through Continuing Education and Extension (CEE) on the Twin Cities campus and through the Duluth Extension Center on the UMD campus. Applicants must be U.S. citizens or permanent residents, reside in Minnesota, be admissible to the University of Minnesota, and have an interruption or delay in their education of at least three years. The years counted in the gap do not need to be consecutive. Awards are made on the basis of financial need, academic ability, and the strength of a personal statement. Preference will be given to students in the fields of history, education, art, and audiovisual education. The application priority deadline is July 7, 1995. If funds remain available, applications will be accepted until August 18, 1995. To obtain an application, contact CEE Counseling, 314 Nolte Center (612-625-2500).

Military Veterans—To satisfy Veterans Administration requirements, veterans registering under the G.I. Bill must enroll in courses that are applicable to a degree, certificate, or other educational objectives approved by the Veterans Administration. Eligible students may apply under: **New G.I. Bill (Chapter 30) Montgomery; VEAP (Chapter 32) Post-Vietnam Era; and Reserve and National Guard Educational Program (Chapter 106)**. Educational plans and transcripts of all college work must be reviewed with a CEE adviser before the Veterans Certification Office can certify registration to the Veterans Administration. Veterans who are not yet admitted to a degree program will be held to CEE academic progress standards (see the *How to Register* section, *Academic Progress*). Advisers can be reached at 612-625-2500 or by writing Veterans Adviser, CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Drive SE, Minneapolis, MN 55455.

Academic Progress—Students enrolled in degree-granting programs will have their academic progress monitored by their colleges. CEE will determine academic progress for students admitted to CEE certificate programs and for some nonadmitted students who are not held to other college standards. Students receiving financial aid through the University's Office of Scholarships and Financial Aid will be held to a similar, but possibly different standard. For more information, see the *How to Register* section, *Academic Progress*.

Course Submissions and Completion

In this section of our bulletin you'll find all the information on completing an Independent Study course:

- time frames;
- submitting assignments;
- course exams;
- course grading systems; and
- reenrollment and reinstatement.



Time Frames

A minimum of six weeks is required to complete an Independent Study course. The six weeks begin the date you submit your first assignment, **not** the date of registration. **Expect to spend a minimum of three months to complete** an Independent Study course.

You have **one year** to complete most Independent Study courses. If you cannot complete the course in one year, you may reinstate (extend your enrollment) in most Independent Study courses for one additional year. If you do not reinstate by the expiration date, a grade of F or N will be placed on your transcript. (See *Reinstatement*, below.)

Buy the required texts/supplies immediately because text editions may be updated by publishers, and you may not be able to obtain the texts/supplies at a later date. In this situation, you will not be able to complete the course or reinstate in it.

Assignment Submission

Make a copy of each assignment you submit; **attach the correct computerized submission form** to each assignment, exam, or paper; and **attach a preprinted mailing label** to the envelope. **Do not send assignments directly to your instructor.**

You may submit a maximum of three assignments, exams, or papers per week in most courses. You are urged to consider any comments from your instructor on one assignment, and recognize your mistakes and strengths, before you submit more work for your course. If there is an exception to the three submissions per week policy, that information is given in the course study guide.

Allow approximately two weeks between the time an assignment is received by Independent Study and the time it is placed in the return mail. Failure to include the correct computerized submission form, insufficient postage, or lack of zip code may delay the processing of a submission beyond the two-week period. Contact Independent Study regarding any assignment not returned within three weeks from the date it was submitted.

E-Mail Submissions

In selected courses, students have the option of submitting assignments and receiving instructor evaluations/comments by e-mail. For more information, see the *Technology-Enhanced Courses* section.

Examinations

Most Independent Study courses include a proctored final examination and one or more proctored midcourse examinations. You must present a photo ID (U of M student ID, driver's license, etc.) in order to take an exam. Be sure to bring the correct computerized submission form (marked with a number and the word *exam* for midcourse exams and a number and the word *final* for final exams) and attach it to the exam when you submit it for grading.

Proctored exams may be taken at the following offices or under the supervision of the following individuals.

1. Department of Independent Study, 45 Wesbrook Hall, Minneapolis campus of the University. No appointment is necessary during regular office hours (8 a.m. to 4:30 p.m., Monday through Friday). If you want to take an examination on a Tuesday or Thursday evening (from 4:30 to 8 p.m.), you should call 624-0000. You must be finished with an exam by 8 p.m. The Independent Study office will also be open from 9 a.m. to 1 p.m. one or two Saturdays before each quarter: Aug. 19, Sept. 30, and Nov. 18, 1995, and Feb. 24, 1996. You must call at least one day in advance and make an appointment to take an exam in the evening or on a Saturday. If you live in the Twin Cities area, you are urged to take your exams at the office of Independent Study.
2. Continuing Education and Extension Offices (by appointment only):

Crookston: Academic Affairs, 217 Owen Hall, 218-281-8274
Duluth: 104 Darland Administration Building, 218-726-6288
Morris: Regional Advising Service, 232 Community Services Building,
612-589-6456 and 1-800-842-0030
Rochester: 855 SE 30th Avenue, 507-280-2828 and 1-800-947-0117
3. The Independent Study department of any member institution of the National University Continuing Education Association (NUCEA) or of the institution of a member belonging to the American Association for Collegiate Independent Study (AACIS). (See *How to Register, Professional Associations.*)
4. A school superintendent, principal, or counselor; a faculty member or administrator of an accredited university or college; a head librarian.
5. A commissioned officer whose rank is higher than your own (for students in the military only).
6. A corporate education director.

Independent Study reserves the right to reject any proctor. Regardless of academic qualifications, no relative, work supervisor, or immediate employer may proctor an examination. No proctor fees are authorized.

A Request for Examination form for each exam (and a computerized submission form) is included in the course study guide. To take your examinations at locations other than the office of Independent Study, you must contact the individual who will proctor your examination before sending the Request for Examination form to the Department of Independent Study. Examinations are mailed directly to the proctor at his or her business location and must be taken within 30 days.

Grades

Also see *Reinstatement*.

The University uses the A-F and S-N grading systems. On your registration form, indicate on which system you want to be graded. You may change to another system at any time before submitting assignment 3. If there is a grading system restriction for a course, it is given in the course description. Your course grade is sent to you when you complete each Independent Study course.

Grading procedures and requirements are left largely to the discretion of the instructor, who is in the best position to evaluate a student's skill, knowledge, and progress. Grading policies employed in a specific course are usually outlined in the study guide for that course. Questions and problems concerning grades earned in Independent Study should be sent to the Administrative Director, Department of Independent Study.

A-F Grading System

There are four passing grades in the A-F system: A, B, C, and D. In almost all cases, major coursework must be completed on the A-F system. A grade of F indicates unsuccessful completion of the course. A grade of D, while a passing grade, reflects substandard work and must be balanced by grades of A or B in order to maintain satisfactory academic progress. (See the *How to Register* section, *Academic Progress*, for more information.)

S-N Grading System

The S-N system is an alternative to the A-F system. S represents achievement that is satisfactory to the instructor. (The standards for S may vary from one course to another.) The letter N, which stands for no credit, is assigned when a student does not earn an S. Each college has limitations on which courses or what proportion of courses may be taken on the S-N system. Students who intend to apply Independent Study credits taken on the S-N system toward a degree or certificate at the University should contact their college office or CEE Counseling before enrolling.

If you are not working on a degree or certificate program, and not intending to apply credits toward such a program later, you may use the S-N system for any number of credits.

Grade Point Average

To calculate grade point average, grade points are assigned to course grades as follows: for each credit of A, four grade points; B, three grade points; C, two grade points; D, one grade point; F, zero grade points. Your grade point average is determined by dividing the sum of grade points by the sum of credits attempted. Credits earned in classes taken on the S-N grading system are not usually included in determining grade point average. CEE Counseling has written instructions on how to compute your grade point average; to request a copy of these instructions, call 612-625-2500.

Internet Courses

Independent Study now offers certain courses completely online. For details, see the *Technology-Enhanced Courses* section.

Reenrollment

If you did not complete an Independent Study course because, for example, your registration expired and you received a grade of F or N, or a reinstatement is not possible in that version of the course (see *Reinstatement*), and you would like to take the same course again, you must reenroll in the course. To reenroll you must fill out a registration form,

pay current tuition rates, buy the current required texts/supplies, and complete all the assignments and exams in the newest version of the course study guide.

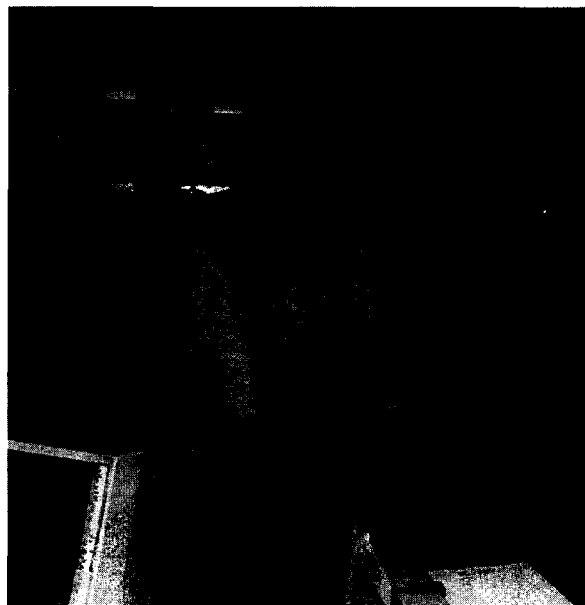
Reinstatement

In most courses if you do not complete your course within the first year, you may extend your enrollment for one additional year from the original date of registration. To obtain a reinstatement, submit a written request (or use the Reinstatement Request form included with your study guide), and pay the \$60 reinstatement fee **before** your expiration date. Pay by cash (in person), check, credit card, or money order. A course may be reinstated **only one time**. **Sometimes reinstatements are not possible** because of a change of instructor, changes in course content/requirements, etc.

If you reinstate, a grade of I (incomplete) will be placed on your transcript. If you complete your course within the one-year reinstatement period, the I will be removed and a permanent grade (A-F or S-N) entered on your transcript. **If you do not complete your course by the end of the expiration date—either the original date (one year from the date you registered) or the extended date (two years from the date you originally registered)—a permanent grade of F or N will be placed on your transcript.**

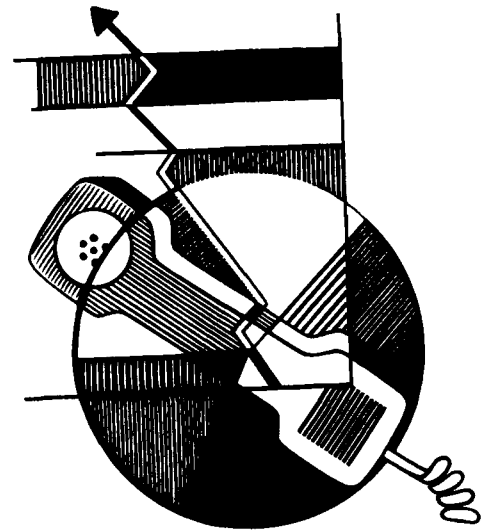
An extension in a course beyond the expiration of the reinstatement year is **not** possible. Then you can earn credit in the course only by reenrolling (see *Reenrollment* above).

Independent Study staff members are ready to help you if you phone or come into our office. Marilyn Smith, right, may be the person you talk to if you call for information or a copy of our bulletin. Shirley Kallevig, left, will help if you order course texts or materials by mail. And Gail Johansen is ready to help you enroll in a course if you stop by our office at 45 Wesbrook Hall.



Students who enroll in an Independent Study course must abide by the policies and procedures established for the department by the University of Minnesota. Policies and procedures are subject to change without notice. This section includes the policies and procedures governing

- cancellations, cancel/add, and discontinued courses;
- immunization;
- plagiarism; and
- student ID.



Cancellations

It is possible to cancel out of an Independent Study course. **Simply not submitting assignments does not constitute cancellation; you will receive an F or N grade if you do not cancel officially.** Use the cancellation form included with your study guide. Cancellations are effective the date of the postmark and must be in writing.

- If you cancel your course registration within six weeks of the date you registered, that course will not appear on your transcript.
- You have six months from the date of registration to officially cancel registration in a course with a grade of W (official cancellation without grade) on your transcript, if you have completed **less than half** of the course submissions.
- If you request a cancellation more than six months from the date you registered or have completed **more than half** of the course submissions, you must obtain approval from the Continuing Education and Extension (CEE) Scholastic Committee.

The CEE Scholastic Committee strives to assure the integrity of student grade records by maintaining fair and consistent registration, withdrawal, and grading policies for all students. Approval from the CEE Scholastic Committee is granted only under extenuating circumstances. College guidelines for cancellation will be strongly considered for students who are admitted to a degree program at the University of Minnesota. Students may request a petition form by contacting Independent Study or CEE Counseling by phone or mail (see *Counseling and Advising Services*).

Cancel/Add

You may cancel out of one Independent Study course and add another Independent Study course following the policies given above. Fill out a cancellation form, a registration form for the new course, and indicate that you want any tuition refund you may be entitled to applied to the tuition for the new course.

Refunds

If you cancel out of a course, you **may** be eligible for a tuition refund. For the refund schedule, see *Tuition, Course Materials and Fees, Financial Aid*.

Reenrollment and Reinstatement

See *Course Submissions and Completion*.

Assignment Submissions

See *Course Submissions and Completion* and *Technology-Enhanced Courses, E-Mail Assignment Service*.

Discontinued Courses

Because supplies, books, or an instructor may no longer be available for a specific course, sometimes it is necessary for Independent Study to stop accepting enrollments and reinstatements in that course. If you mail in a registration form or a reinstatement request for a course that has been discontinued, your tuition or reinstatement fee will be returned or, if requested, applied to another course with the same tuition or reinstatement fee.

Immunization

Students born after 1956 who take more than one University class are required under Minnesota law to submit an Immunization Record form. The form, which is sent along with the official University admission letter, must be filled out and returned to Boynton Health Service within 45 days of the first term of enrollment in order for students to continue registering for classes at the University. Complete instructions accompany the form. If you are taking Independent Study courses and are an admitted University student, this policy applies.

Plagiarism

If you submit as your own work any other person's work without proper acknowledgment, you are guilty of plagiarism. Plagiarism includes borrowing any concepts, words, sentences, paragraphs, or entire articles or chapters from books, periodicals, or speeches. In these cases, quotation marks and citations must be used. If you have any questions about proper acknowledgment, look in any writing handbook.

Plagiarism also refers to copying another student's lesson assignment or paper and submitting it for grading as if it were your own work. If you allow another student to copy your lesson assignment you are equally guilty of academic dishonesty. Plagiarism is a violation of the University's student conduct code and will be dealt with by the Independent Study faculty and/or the office for Student Judicial Affairs.

Student ID

Independent Study uses a student's Social Security number as an identification number. Supplying this number is voluntary; however, it is helpful in insuring accurate access to your records and avoiding duplicate mailings. If you have a University of Minnesota ID number, also put that number on the Independent Study registration form. If you do not fill in your Social Security number and do not have a University of Minnesota ID number, Independent Study will have an ID number assigned to you.

This section of our bulletin contains information about the services available to Independent Study students, including

- Independent Study office hours;
- counseling and advising;
- special accommodations that can be made for students with disabilities;
- library and audio/video facilities and student transcripts and records; and
- other activities and facilities.



Office Hours

The Independent Study office is open Monday through Friday, 8 a.m. to 4:30 p.m., throughout the calendar year. Telephone registrations (612-626-8977 or 1-800-234-6564) will be taken from 8 a.m. to 3:30 p.m. On Tuesdays and Thursdays, office hours are extended in the registration office in room 45 Wesbrook Hall until 8 p.m., with minimal service after 4:30 p.m. During the extended hours staff members will accept registrations, assignment submissions, cancellations, reinstatements, and other transactions for processing the next day, will provide general information, and will proctor exams for students who have made an appointment to take an evening exam (see *Course Submissions and Completion, Examinations*).

The registration office will also be open from 9 a.m. to 1 p.m. one or two Saturdays before each quarter: Aug. 19, Sept. 30, and Nov. 18, 1995, and Feb. 24, 1996. On those Saturdays, CEE counselors will be available in Wesbrook Hall to answer your questions.

The department is closed on the following holidays:

July 4, 1995	Independence Day
September 4, 1995	Labor Day
November 23, 1995	Thanksgiving Day
November 24, 1995	Friday after Thanksgiving
December 25, 1995	Christmas holiday
December 26, 1995	Christmas holiday
January 1, 1996	New Year's holiday
January 15, 1996	Martin Luther King Day
March 22, 1996	Floating holiday
May 27, 1996	Memorial Day

Counseling/Advising

The CEE Counseling office offers academic advising and financial aid advising services free of charge to all students registered or planning to register in courses offered by Continuing Education and Extension. Academic advising can help you determine prerequisites and academic standing, evaluate transcripts, choose courses, and evaluate the applicability of Independent Study credits to specific degree and certificate programs.

Professional counseling services are also available, for a fee (VISA and MasterCard accepted), to assist individuals with exploration, choice, planning, and implementation of career and educational goals. Counselors can help you learn more about your interests, values, abilities, and personal characteristics related to your goals; identify career options and major fields of study; develop educational and career plans; and assess problems related to academic performance.

Call 612-625-2500 to arrange for day or evening appointments or to consult with an adviser or counselor by phone. Advisers also can be contacted at CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Drive SE, Minneapolis, MN 55455 or by Internet (ceeadv@mail.cee.umn.edu).

DANTES

The Defense Activity for Non-Traditional Educational Support (DANTES) was established in June 1974 to provide educational support for voluntary education programs for military organizations. Military personnel on active duty should contact their Education Officer for additional information concerning enrollment through this program.

Disability

If you have a disability and need assistance to obtain or arrange reasonable accommodations for your Independent Study course, contact Disability Services (DS), 30 Nicholson Hall, 216 Pillsbury Dr. SE, Minneapolis, MN 55455; phone 612-626-1333 (voice or TTY) as soon as you register for your course.

Independent Study and DS will coordinate efforts to provide accommodations that will remove academic and physical barriers to earning credits through Independent Study. Such accommodations may include more time to complete an exam or an alternate format of an exam, a separate testing room, audiotaping required materials, taped rather than written comments from an instructor, and time extensions. Request such accommodations well in advance of when they are needed so that necessary documentation may be obtained and accommodations facilitated.

For students with access to adaptive technology for computers, materials from Independent Study are available in electronic or disk format. Contact Independent Study or DS for more information or to request the materials in that format.

Wesbrook Hall, where Independent Study is located, has an access ramp on the west side of the building (facing Pleasant Street) and an elevator.

International and Overseas Students

Independent Study accepts registrations from students living or traveling in foreign countries. Since courses are available only in English, students must have sufficient knowledge of English to be able to read and write lesson assignments and exams without difficulty. The Department of Independent Study does not employ commercial agents abroad. You must pay all fees in American currency (U.S. dollars). Mail your registration form—along with payment for tuition, texts/supplies, tapes, postage—directly to Independent Study. Videocassettes and certain other supplementary materials

cannot be sent overseas. For complete information regarding overseas lesson service, see the *Tuition, Course Materials and Fees, Financial Aid* section, *Postage*.

Library and Audio/ Video Facilities

In addition to the required textbooks you may purchase for your Independent Study course, you are urged to use the University libraries and your local public, school, or college library for supplemental and required reading.

University of Minnesota Libraries—Independent Study students can borrow books from University libraries. These include libraries on the St. Paul campus and Walter Library (East Bank) and Wilson Library (West Bank) on the Minneapolis campus. Independent Study students are subject to all library regulations, including loan periods, fines, book recalls, and course reserves. If you borrow books in person you must present a current fee statement/course confirmation form. If you reinstate in a course you must present proof of reinstatement at the library to withdraw books. Independent Study students may also use LUMINA (Libraries of the University of Minnesota Integrated Network Access), the University Libraries' automated system. For information on how to use LUMINA, call 612-626-2272.

University Film and Video—This department provides video materials as learning resources for students to use on a fee basis. For information and a catalog of available resources, contact University Film and Video, 1313 5th St. SE, Suite 108, Minneapolis, MN 55414; telephone 612-627-4270; Internet kcooper@ufv.cee.umn.edu. Current holdings are accessible through Gopher or the University's on-line library system.

Learning Resources Center—The University of Minnesota Learning Resources Center, Minneapolis campus, has copies of the audiocassettes and videocassettes that are required for Independent Study courses. Any interested person can use its listening and viewing facilities. Please call ahead to check on the availability of course cassettes and open hours.

Learning Resources Center
15 Walter Library
Minneapolis campus
612-624-1584

Minnesota College Libraries—Many Minnesota colleges and universities will extend library privileges to Independent Study students who show a fee statement/confirmation of registration form. You must abide by the regulations of these libraries. Course grades will not be issued or transferred if you ignore library regulations.

MINITEX—Most Minnesota libraries are participants of MINITEX, a legislatively funded program that shares library resources. Contact your local library for assistance in identifying, locating, and obtaining needed items.

Transcripts and Records

Two types of services are available to obtain official transcripts: regular service and rush service. (Official transcripts are certified and signed by the University Registrar.) Regular service is available for \$3 per transcript copy. Processing time for regular service is two to three working days; after processing, your copies will be mailed to the places you have specified. Rush service on your official transcript is available for \$9 per transcript copy. Rush service guarantees your transcript will be issued to you in person or put in the mail on the same day the request is received. You must have a picture ID (U of M student ID or current passport or driver's license) to receive over-the-counter rush service.

Official transcripts can be requested by mail or in person. No telephone requests are accepted. Requests should include your full name, your signature, Social Security number, date of birth, dates of enrollment, and complete address(es) where the transcripts should be mailed. Send your requests to (or drop them off at) the Office of the Registrar, University of Minnesota, 150 Williamson Hall, 231 Pillsbury Drive SE, Minneapolis, MN 55455. Your request must include a check or money order payable to the University of Minnesota for \$3 or \$9 a transcript.

You may pick up an unofficial copy of your record by visiting the quick-service window in 150 Williamson Hall. A picture ID is required. There is no charge for the quick-service request, but there is a limit of one copy per day.

Independent Study grades are automatically recorded for undergraduates on their University of Minnesota transcript. Graduate and professional school students must petition for transfer of Independent Study credits to graduate or professional school records.

If you want an official transcript that includes your Independent Study grade, please request it after you have received notice of your grade from Independent Study.

Access to Student Educational Records

In accordance with regents' policy on access to student records, information about a student generally may not be released to a third party without the student's permission. (Exceptions under the law include state and federal educational and financial aid institutions.) The policy also permits students to review their educational records and to challenge the contents of those records.

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), college and class, major, adviser, academic awards and honors received, and degrees earned—is considered public or directory information. Students may prevent the release of public information only during their terms of enrollment. To do so, they must notify the records office on their campus.

Students have the right to review their educational records. The regents' policy, including a directory of student records, is available for review at 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.

Other Services

Many student services are available to Independent Study students. Participation in some of these activities is dependent on credit load per academic quarter. A list of services is given below. For more information about participating, call the phone number below. If you are enrolled in Extension classes, you may count your Independent Study credits as part of your total credit load. You **cannot** use your credit card to pay for student services.

Athletic tickets (624-8080)
CEE student board (626-8501)
E-mail (626-7676)
Health service (625-8400)
Intercampus bus service (625-9000)
Library (624-4552) (Also see *Library and Audio/Video Facilities* above)
Parking Services (625-6566)
Recreational facilities (625-6800)
University Senate (626-8501)

Course Descriptions

This section contains information on all the college courses offered through Independent Study. The courses are listed alphabetically by subject or department name. Courses that are new, use technology-enhanced components, or carry graduate credit are marked with icons. For more information on such courses, see the *Technology-Enhanced Courses* and the *How to Register* sections.



Accounting

Carlson School of Management

Also see *Business Studies*.

Note: Students taking Carlson School of Management upper division undergraduate courses through CEE are expected to have completed the equivalent of 90 quarter college credits with a minimum of a B- grade average.

*Robert Glen Berryman, M.B.A., Professor,
Accounting*

*Nick Biondich, M.S., Lecturer and CEE
Coordinator, Accounting*

*Gordon Heslop, D.B.A., Accounting, Continuing
Education and Extension/University College*

*Dennis R. Lassila, Ph.D., C.P.A., Graduate Tax
Faculty, Texas A & M University*

Acct 1050 Introduction to Financial Reporting (1533)

15 assignments—2 exams—\$397.50 (plus texts)—5 degree credits—Biondich

new

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. A-F grading only. **This course is now in preparation; please inquire before enrolling.**

Acct 3001 Introduction to Management Accounting (1540)

12 assignments—2 exams—\$374—4 degree credits—text price \$67—Heslop/Biondich

A broad overview of management accounting as the main information collection and analysis technology of an organization. Topics include analysis of cost-volume-profit relationships, budgeting and analysis of variances from budgeted performance, and issues relating to decentralized organizational design. Must be taken A-F. (Prerequisite: Acct 1050)

Acct 5135 Income Tax Accounting (1584)

16 assignments—1 exam—\$374—4 degree credits—text price \$69—Lassila

The more common and important provisions of the federal income tax system as applied to individuals and corporations. Begins with a consideration of which types of income are taxable and which are not. Attention is given to business deductions, personal deductions, gains and losses, nontaxable exchanges, deferred compensation, and taxation of business entities. Covers recent tax laws, including those enacted through the end of 1994. Must be taken A-F. (Prerequisite: Acct 1025 or Acct 1050 or equivalent and at least 90 credits completed or in progress) **Available through Dec. 31, 1995.**

Adolescent Psychology

See *Child Psychology*.

Afro-American and African Studies

College of Liberal Arts

Charles Pike, Ph.D., Assistant Professor, Afro-American and African Studies

Afro 3601 Introduction to African Literature (A376)

12 assignments—2 exams—\$344 (plus texts)—4 degree credits—study guide \$10—supplement \$10—11 audiocassettes \$33.50—Pike

e-mail **audio**

A survey of 19th- and 20th-century African literature, including oral narratives, written poetry, short stories, novels, plays. All readings in English. See the *Technology-Enhanced Courses* section.

Agricultural and Applied Economics

Agricultural, Food, and Environmental Sciences

Beth Walter Honadle, Ph.D., Agricultural and Applied Economics
Patricia Love, M.A., Ph.D. candidate, Agricultural and Applied Economics

AgEc 5640 Financing State and Local Governments (1080)

7 assignments—1 exam—\$374(plus texts)—4 degree credits—supplement \$10—Honadle/Love

new

Examination of problems and issues in financing state and local public services in the United States; state and local revenue systems; debt and expenditures; intergovernmental fiscal relations; and budget analysis. **This course is now in preparation; please inquire before enrolling.**

AgEc 5640 Financing State and Local Governments (GIS version, G103)

7 assignments—1 exam—\$374/\$862 (Grad School, U of M/\$472 (grad rate, other schools)(plus texts)—4 degree credits—supplement \$10—Honadle/Love

new **group** **grad**

See above. Students attend evening interactive TV classes on the Twin Cities, Crookston, or Morris campus on Jan. 31, Feb. 28, Mar. 26, and Apr. 23, 1996. Professor Honadle will visit the Crookston campus during the course. Students are encouraged to complete the course in six months. To register for this Group Independent Study version, use the registration form in this bulletin and check YES next to the question concerning GIS. **Register Nov. 13–Dec. 15, 1995. Graduate credit is available for the GIS version of this course.** If you are already admitted to a graduate program, consult your adviser to be sure this course is appropriate. If you are considering applying to a graduate degree program and are interested in using this course, consultation with the department is recommended. **For more information, see the *Technology-Enhanced Courses* section.**

Agriculture

See *Entomology, Food Science and Nutrition, Horticultural Science*.

American Indian Studies

College of Liberal Arts

David Rayson, M.A., Instructor and Ph.D. candidate, History

Amln 3111 American Indian History I: From the Mid-15th Century to 1850 (4825)

3 assignments—1 exam—\$344—4 degree credits—text price \$65—supplement \$10—Rayson

new

Explores the history of Native North American groups from the pre-European-contact period to about the mid-19th century. Addresses central themes relating to various Native American cultures, as well as their interactions with various European invaders. Brief case studies highlight the complexity and diversity of Native American groups. Stresses the integrity and viability of Native American societies, the dynamism of their largely self-directed culture change in response to contact with other Native American groups and European invaders, and the duality of the culture change—European invaders were also profoundly changed by the clash of cultures. Students may receive credit for only one of these courses: Amln 3111 or Hist 3871.

Graduate credit is available for the Group Independent Study version of Financing State and Local Governments, AgEc 5640.

AmIn 3112 American Indian History II: 1850 to the Present (4827)

4 assignments—1 exam—\$344 (plus texts)—4 degree credits—Rayson

new

Completes American Indian history from pre-contact to the present. It is not necessary to take AmIn 3111/Hist 3871 before this course. Stresses general themes in Native American history and focuses on the efforts of Native American nations to control their cultural destiny against the efforts of the U.S. government to forcibly assimilate them into European culture. Discusses the ways change is incorporated within the belief systems of Native American cultures from the perspective of members of those cultures, connects U.S. Indian policy to national and international events, and explores the tension between cultural persistence and incorporation of change within both Native American and European American cultures. Students may receive credit for only one of these courses: AmIn 3112 or Hist 3872. **This course is now in preparation; please inquire before enrolling.**

American Studies**College of Liberal Arts**

Roger Clemence, M.L.A. and M. Arch., Professor and Associate Dean, College of Architecture and Landscape Architecture
J. Randolph Cox, M.A., Professor and Reference Librarian, St. Olaf College
Judith Martin, Ph.D., Associate Professor, Geography and Urban Studies, Center for Urban and Regional Affairs
Cynthia Richter, M.A., Teaching Assistant and Ph.D. candidate, American Studies
Nancy L. Roberts, Ph.D., Associate Professor, Journalism and Mass Communication, and adjunct faculty member, American Studies

AmSt 1001 American Cultures I (1421)

\$318 (plus texts)—4 degree credits—Richter

new

Interdisciplinary study of American cultures, from the colonial era through the mid-19th century. Major topics: diversity in colonial America, struggles for independence and equal rights (the Revolutionary War; women's fight

for a public, political role; and the battle against slavery), and the frontier. Explores experiences and beliefs of European Americans, Native Americans, African Americans, Asian Americans, and Chicanos. **This course is now in preparation; please inquire before enrolling.**

AmSt 1002 American Cultures II (1422)

9 assignments—no exams—\$318—4 degree credits—text price \$98—video rental \$50 (\$25 refund)—Richter

video e-mail

Interdisciplinary study of the diversity of American cultures, 1890–1945. Major topics: urban life and leisure, changing family and gender roles, race and national identity. Explores experiences and cultural products of European Americans, Native Americans, African Americans, Asian Americans, and Chicanos. **See the *Technology-Enhanced Courses* section.**

AmSt 1003 American Cultures III (1423)

9 assignments—no exams—\$318—4 degree credits—text price \$93—supplement \$10—video rental \$50 (\$25 refund)—Richter

video e-mail

Interdisciplinary study of diversity of American cultures, 1945 to present. Major topics: family practices and gender roles, social change movements (civil rights movement, American Indian movement, women's movement), and the politics of popular culture (music, television, fashion, art). Explores experiences and cultural products of European Americans, Native Americans, African Americans, and Chicanos. **See the *Technology-Enhanced Courses* section.**

AmSt 1920 Topics in American Studies: Ellery Queen and the American Detective Story (A141)

8 assignments—1 exam—\$318—4 degree credits—text price \$50—study guide \$10—10 audiocassettes \$30.75—Cox

e-mail audio

Surveys American detective fiction, both classic and hard-boiled, to suggest reasons for its continued popularity. Novels/stories by Poe, Hammett, Ellery Queen, Rex Stout, and others assigned for reading and discussion. Audiocassettes focus on Ellery Queen as an example of the changing style of the genre. **See the *Technology-Enhanced Courses* section.**

For more information about a course, ask for a copy of the study guide introduction:
 Internet,
 indstudy@maroon.
 tc.umn.edu, or
 telephone, 612-
 624-0000 or 1-800-
 234-6564.

AmSt 3920/5920 Topics in American Studies: The Meanings of Place (V143/V143.1)

6/8 assignments—no exams—\$344/\$862 (Grad School, U of M)/\$472 (grad rate, other schools)—4 degree credits—text price \$65—study guide \$20—video rental \$50 (\$25 refund)—Clemence and Martin

video grad

This course provides direct experiences in analyzing the cultural and psychological messages of our surroundings. With guidance from a cultural historian and a landscape architect, students observe and explore various settings to discover what present-day environments can reveal about the past and to gain a better understanding of the connections between sense of place and feelings of well-being. Places picked for analysis include the Minneapolis and St. Paul central districts, selected Twin Cities neighborhoods, village and small-town settings inside and outside Minnesota, and various landscapes of the open countryside. Also available as Arch 5724 and Geog 5856. Students may receive credit for only one of these courses: AmSt 3920, AmSt 5920, Arch 5724, or Geog 5856. *Graduate credit is available for this course.*

AmSt 3970 Directed Study: American Architecture to 1860 (1408)

11 assignments—no exams—\$344—4 degree credits—text price \$71—Roberts

Selective examination of building forms and patterns in America, with attention to Old World antecedents and their vernacular expressions during the pre-Revolutionary period. The scope of this course extends into the mid-19th century, covering the birth of a national style (architecture as politics). Also available as Arch 3970. Students may receive credit for only one of these courses: AmSt 3970 or Arch 3970.

Anthropology

College of Liberal Arts

Fay Cohen, Ph.D., Professor and Academic Program Coordinator, School for Resource and Environmental Studies, Dalhousie University
Luther P. Gerlach, Ph.D., Professor, Anthropology

John M. Ingham, Ph.D., Associate Professor, Anthropology

Janet Spector, Ph.D., Associate Professor, Anthropology

Anth 1101 Human Origins (1103)

4 assignments—no exams—\$397.50—5 degree credits—text price \$55—supplement \$10—Spector

World prehistory as investigated by archaeologists is the course's major topic. The methods and concepts employed by archaeologists in the study of human origins and prehistoric biological and cultural development are also considered.

Anth 1102 Understanding Cultures (1102)

15 assignments—1 exam—\$397.50—5 degree credits—text price \$66—Cohen

Study of cultures in all parts of the world, directed toward a broad understanding of how people view their world, cope with their environments, and organize their lives.

Anth 1102 Understanding Cultures (V112)

2 assignments—1 exam—\$397.50—5 degree credits—text price \$64—study guide \$20—video rental \$50 (\$25 refund)—Gerlach

video

Introduction to the ways the cross-cultural, comparative, and holistic study of contemporary societies and cultures across the world can provide an understanding of human diversity, adaptation, and condition. Considers social, political, economic, technological, and religious institutions.

Anth 5141 Psychological Anthropology (1197)

10 assignments—2 exams—\$344—4 degree credits—text price \$26—supplement \$10—Ingham

Examines the relation between culture and personality, with emphasis on recent work in psychoanalytic anthropology. Topics include human nature, child development, personality, mental illness, group psychodynamics, religious ritual and symbolism, and war.

Architecture

Architecture and Landscape Architecture

Roger Clemence, M.L.A. and M. Arch., Professor and Associate Dean, College of Architecture and Landscape Architecture

For financial aid information, see pages 15–16 and call CEE Counseling, 612–625–2500.

Judith Martin, Ph.D., Associate Professor, Geography and Urban Studies, Center for Urban and Regional Affairs

Nancy L. Roberts, Ph.D., Associate Professor, Journalism and Mass Communication, and adjunct faculty member, American Studies

Arch 3970 Directed Study: American Architecture to 1860 (1408.1)

11 assignments—no exams—\$374—4 degree credits—text price \$71—Roberts

See AmSt 3970. This course can be used for architecture degrees only as an elective.

Students may receive credit for only one of these courses: Arch 3970 or AmSt 3970.

Arch 5724 The Meanings of Place: City, Town, and Countryside (1407)

8 assignments—no exams—\$374/\$862 (Grad School, U of M)/\$472 (grad rate, other schools)—4 degree credits—text price \$65—study guide \$20—video rental \$50 (\$25 refund)—Clemence and Martin

video grad

See AmSt 3920/5920. Students may receive credit for only one of these courses: Arch 5724, AmSt 3920, AmSt 5920, or Geog 5856. A-F grading only. *Graduate credit is available for this course.*

Art

College of Liberal Arts

Rebecca Brown, Teaching Assistant, Art History
Sheila McNally, Ph.D., Professor, Classical and Near Eastern Studies

ArtH 1001 Introduction to the Visual Arts (V121)

2 assignments—2 exams—\$318—4 degree credits—text price \$53—study guide \$10—video rental \$50 (\$25 refund)—McNally/Brown

e-mail video

Considers the basic issues of art. Examples of painting and sculpture are analyzed to illustrate the roles of art in society. Problems of design, materials, and technique are presented topically rather than chronologically. **See the Technology-Enhanced Courses section.**

Astronomy

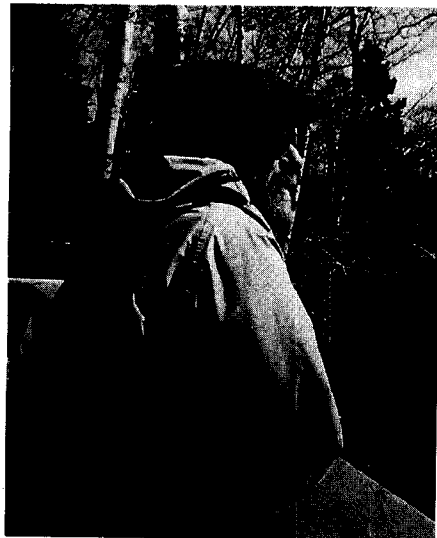
General College

Ivan M. Policoff, M.A., M.S., Associate Professor, General College

GC 1161 Physical Science: Solar System Astronomy (1314)

15 assignments—3 exams—\$397.50—5 degree credits—text price \$39—Policoff

An introductory survey of the solar system, including a study of the earth, planets, satel-



Ray M. Wakefield, an associate professor of German, is the author and instructor for Ger 1101, 1102, and 1103. In addition to texts, these courses use audiocassettes, videocassettes, and interactive computer software on one 3.5-inch disk (in IBM or Macintosh format). The interactive computer software allows students to practice and review German grammar/structure concepts until they feel they have mastered them, while the audiocassettes and videocassettes provide both pronunciation practice and cultural information about Germany.

lites, asteroids, comets, and meteorites. Topics include the celestial sphere, coordinate systems, time intervals, motions and physical attributes of the planets and their satellites in the solar system, and instruments used by the astronomer. Observations of the night sky included. Knowledge of elementary algebra suggested.

GC 1162 Physical Science: Stellar Astronomy (1315)

16 lessons—3 exams—\$318—4 degree credits—text price \$52—Policoff

An introductory survey of the large-scale structures of the universe, including the definition of certain properties of stars (magnitude, luminosity, brightness). Topics: the sun, the spectral classification of stars, white dwarfs, neutron stars, black holes, clusters, nebulae, galaxies, quasars, cosmology, and cosmogony. Observation of the night sky included. Knowledge of elementary algebra helpful.

You can order all course materials by mail. See page 13.

Beekeeping

See *Entomology*.

Biology

Biological Sciences

Robert Brooker, Ph.D., Associate Professor, Biological Process Technology Institute
William Cunningham, Ph.D., Professor, Genetics and Cell Biology
Murray Jensen, Ph.D., Assistant Professor, General College—Sciences
Paul Phifer, M.A., Teaching Assistant, Genetics and Cell Biology
Jane Phillips, M.A., Associate Education Specialist, College of the Biological Sciences
Val Woodward, Ph.D., Professor, Genetics and Cell Biology

Biol 1009 General Biology (1601)

15 assignments—2 exams—\$397.50—5 degree credits—text price \$68—lab kit \$52—Brooker and Phillips

An introduction to the general principles of biology. Topics: the cell, metabolism, heredity, reproduction, ecology, and evolution. Eight new or revised lab exercises, most of which students can perform in their own kitchens.

Biol 1101 Heredity and Human Society (A815)

5 assignments—2 exams—\$318—4 degree credits—text price \$40—study guide \$10—17 audiocassettes \$51.25—Woodward/Jensen

audio

Principles of heredity and their social and cultural implications. Explanation of the use and misuse of genetics. Overview of Mendelian and molecular genetics, and the relationships between genetics, evolution, and individual and social behavior. For students in programs not directly related to biological sciences. Students may receive credit for only one of these courses: Biol 1101 or GCB 3002. Students may not receive credit for Biol 1101 if taken after Biol 5003 or GCB 3022.

Biol 1101 Heredity and Human Society (1607)

5 assignments—2 exams—\$318—4 degree credits—text price \$40—study guide \$10—17 audiocassettes \$51.25—computer disks \$5—Woodward/Jensen

audio computer

See above. Students must have access to an Apple Macintosh that uses system 6 or system 7 or be able to use the microcomputers in one of the University's computer labs. See the *Technology-Enhanced Courses* section.

Biol 3051 Environmental Studies (1604)

12 assignments—2 exams—\$374—4 degree credits—text price \$59—Cunningham/Phifer

Principles of ecology and current environmental issues including air and water pollution, human population growth, toxic and hazardous wastes, urbanization, land use, biological diversity, energy, environmental health, conservation history, attitudes towards nature, environmental politics, and ethics. Meets environmental theme for liberal education curriculum. Students may receive credit for only one of these courses: Biol 3051 or Biol 1051. Biological Sciences students may not apply these credits to the major.

Biol 5003 Genetics (1608)

13 assignments—2 exams—\$374—4 degree credits—text price \$63—Brooker

Introduction to the nature of genetic information, its transmission from parents to offspring, its expression in cells and organisms, and its course in populations. Students may receive credit for only one of these courses: Biol 5003,

GCB 3022, or GCB 5022. (Prerequisite: Biol 5001 or BioC 3021 or BioC 5331)

Biol 5003 Genetics (GIS version, G100)

13 assignments—2 exams—\$374/\$862 (Grad School, U of M)/\$472 (grad rate, other schools) —4 degree credits—text price \$63—Brooker

group grad

See above. Students attend five evening interactive TV classes on the Twin Cities, Crookston, or Rochester campus on Oct. 26, Nov. 16, Dec. 12, Jan. 25, and Feb. 15. Professor Brooker will visit the Rochester and Crookston campuses during the course. Students are encouraged to complete the course in six months. To register for this GIS version, use the registration form in this bulletin and check YES next to the question concerning GIS. **Register Aug. 14–Sept. 29, 1995. Graduate credit is available for the GIS version.** If you are already admitted to a graduate program, consult with your adviser to be sure this course is appropriate. If you are considering applying to a graduate degree program and are interested in using this course, consultation with the department is advisable. **For more information, see the *Technology-Enhanced Courses* section.**

Biol 5004 Cell Biology (1603)

11 assignments—2 exams—\$374—4 degree credits—text price \$62—Brooker

Structures and functions of membranes, organelles, and other macromolecular aggregates found in plant, animal, and bacterial cells. Cell form and movement, intercellular communication, transport, and secretion. (Prerequisite: Biol 5001 or BioC 3021 or BioC 5331, and Biol 5003 or BioC 5333)

Biol 5004 Cell Biology (GIS version, G104)

11 assignments—2 exams—\$374/\$862 (Grad School, U of M)/\$472 (grad rate, other schools) —4 degree credits—text price \$62—Brooker

group grad

See above. Students attend five evening interactive TV classes on the Twin Cities, Crookston, or Rochester campuses on Apr. 18, May 23, June 20, July 25, and Aug. 22, 1996. Professor Brooker will visit the Rochester and Crookston campuses during the course. Students are encouraged to complete the course in six months. To register for this GIS version, use the registration form in this bulletin and check YES next to

the question concerning GIS. **Register Feb. 21–Mar. 27, 1996. Graduate credit is available for the GIS version.** If you are already admitted to a graduate program, consult your adviser to be sure this course is appropriate for your program. If you are considering applying to a graduate degree program and are interested in using this course, consultation with the department is recommended. **For more information, see the *Technology-Enhanced Courses* section.**

GCB 3022 Genetics (1605)

12 assignments—2 exams—\$374—4 degree credits—text price \$67—Brooker

Mechanisms of heredity, their implications for biological populations, and applications to practical problems. Not intended for biology majors. Students may receive credit for only one of these courses: GCB 3022 or Biol 5003. (Prerequisite: Biol 1009 or Biol 1202)

Business

See the following departmental listings for course offerings:

Accounting
Business, Government, and Society
Business Law
Business Studies
Design, Housing, and Apparel
Educational Policy and Administration
Finance
Industrial Relations
Management
Marketing
Statistics

Business, Government, and Society

Carlson School of Management

Note: Students taking Carlson School of Management upper division undergraduate courses through CEE are expected to have completed the equivalent of 90 quarter college credits with a minimum of a B- grade average.

Robert Holloway, Ph.D., Professor Emeritus, Strategic Management and Organization
Mark Weber, Ph.D., J.D., Assistant Professor, Management, Hamline University

Graduate credit is available for the Group Independent Study versions of Genetics, Biol 5003, and Cell Biology, Biol 5004.

BGS 3002 Business and Society: Ethics and Stakeholder Management (1594)

12 assignments—2 exams—\$374—4 degree credits—text price \$53—Weber

e-mail

Basic economic and social goals, and various attempts to meet them. Emphasis on American society. Business as an institution; its relationships to other institutions and society; ethical and practical conflicts in the role of the firm and the manager are examined in the context of the public policy process. Current social issues and their impact on business. Must be taken A–F.

See the *Technology-Enhanced Courses* section.

BGS 3004 International Business (1591)

2 assignments—2 exams—\$374—4 degree credits—text price \$55—Holloway

World business, with emphasis on international concepts, comparative cultures and environments, global business strategies, multinational corporations, and management operations in the global scene. The international constraints in the multinational corporation are examined. Must be taken A–F. (Prerequisite: at least 90 credits completed or in progress)

Business Law

Carlson School of Management

Note: Students taking Carlson School of Management upper division undergraduate courses through CEE are expected to have completed the equivalent of 90 quarter college credits with a minimum of a B- grade average.

Dennis R. Hower, J.D., Professor, General College

BLaw 3058 Introduction to Law, and the Law of Contracts and Sales Contracts (1859)

13 assignments—2 exams—\$374—4 degree credits—text price \$89—Hower

Study of the origin of law, its place in and effect on society; history and development of law; the systems of courts; and legal procedure. An extensive study of the law of contracts as the basic law affecting business transactions; and law affecting the sale of goods contracts. Must be taken A–F. See also GC 1534. Students may receive credit for only one of these courses: BLaw

3058 or GC 1534. (Prerequisite: Econ 1101 or equivalent and at least 90 credits completed or in progress)

BLaw 3078 Agency, Partnerships, Corporations, and Commercial Paper (1860)

11 assignments—2 exams—\$374—4 degree credits—text price \$89—Hower

A study of law affecting the relationship between principal and agent and employer and employee. Topics: partnership and corporate forms of business entities (including methods of creating the relationships), the law developed to regulate and control these organizations and their members, and contracts referred to as commercial papers (negotiable instruments), with emphasis on effect of the Uniform Commercial Code. (Prerequisite: BLaw 3058 or GC 1534 and at least 90 credits completed or in progress)

BLaw 3088 Law of Personal Property, Real Property, Wills and Estates (1861)

14 assignments—2 exams—\$374—4 degree credits—text price \$89—Hower

Study of the basic concepts of personal property, including rights of possessors, bailee, finders and holders of security interests. Also includes study of the basic concepts and principles of real property law; transfers of ownership, control of and encumbering such interests. Concludes with a brief study of the law of wills and estates in passing rights to property in the event of death. (Prerequisite: BLaw 3058 and at least 90 credits completed or in progress)

Business Studies

General College

Dennis R. Hower, J.D., Professor, General College

Patrick Kroll, Associate Professor, General College

Shari L. Peterson, Ph.D., Assistant Professor, General College

GC 1235 United States: Law in Society (1615)

14 assignments—2 exams—\$318—4 degree credits—text price \$55—supplement \$8—Hower

In order to give students an appreciation of the role of law in our changing society, the legal aspects of current topics are discussed: court

To be admitted to a certificate or degree program, see pages 107–120.

and court systems, grand and petit juries, corrections, consumer issues including insurance (no-fault auto and life), and wills and probate procedures. A civil lawsuit is explained.

GC 1511 Introduction to Business and Society (1625)

18 assignments—1 exam—\$318—4 degree credits—text price \$64—Hower

Intended for both business and general education, this course provides an overview of the economic environment in which business operates. Major functions of a business organization are surveyed, including production, finance, personnel, and marketing. A useful introductory course for students planning to do more work in business, but also recommended for those who want only to survey the field.

GC 1513 Small Business Fundamentals (1628)

13 assignments—2 exams—\$318—4 degree credits—text price \$80—Kroll

The importance of small business in the United States, and the challenges, pitfalls, and procedures related to starting and operating a small business. Emphasizes analysis of the economic environment, strategic planning, internal analysis of a potential firm's strengths and weaknesses versus the competition, writing a business plan. Considers accounting, finance, marketing, management. Distinct assignments for those who want to learn about small business and those who plan to start a small business.

GC 1534 Practical Law (1620)

15 assignments—1 exam—318—4 degree credits—text price \$104—Hower

Designed to acquaint students with common legal problems. Topics: definition and sources of law, formation and discharge of contracts, torts (personal injury/property damage), criminal law, bailments, nature and classification of real and personal property, joint ownership and tenancy. Students may receive credit for only one of these courses: GC 1534 or BLaw 3058.

GC 1540 Accounting Fundamentals I (1527)

13 assignments—3 exams—\$318—4 degree credits—text price \$46—Kroll

The first of a two-part course in college accounting, designed for both business and nonbusiness students. Considers balance sheet and income

statement methodology, the accounting cycle for both service and merchandising businesses, and an examination of special journals, inventories, receivables, and accounting for plant assets.

GC 1542 Accounting Fundamentals II (1528)

13 assignments—2 exams—\$318—4 degree credits—text price \$87—Kroll

Continuation of GC 1540. Topics: handling dividends, retained earnings and treasury stock, debt, investments, financial reporting, and sources and uses of working capital. Also examines financial statements, accounting for manufacturing operations, and cost analysis problems. (Prerequisite: GC 1540)

GC 1551 Marketing: Introduction (1622)

13 assignments—4 exams—\$318—4 degree credits—text price \$63—optional video rental \$35 (\$25 refund)—Peterson

video

Emphasizes application of the fundamentals of marketing through case study and decision making. Topics: target markets, segmentation analysis, marketing mix, and strategic marketing. Students are placed in various marketing roles (e.g., assistant to the marketing director) and make decisions about pricing, promotion, targeting, international approaches, etc. Answers to the marketing challenges are provided by experts in the field. Emphasis on marketing ethics is maintained throughout the course. Students must indicate whether they want to take the course with the optional videocassette.

GC 1553 Marketing: Principles of Management (1623)

10 assignments—4 exams—\$318—4 degree credits—text price \$63—video rental \$50 (\$25 refund)—Peterson

video

Emphasis on application of the principles of management. Topics: the environment in which managers operate, including the ethical environment and social responsibility, planning, decision making, organizing, controlling, motivation, leadership, communications, group dynamics, and total quality management. Several exercises are designed to provide students with insight into personal managerial behavior. Students will have an opportunity to make managerial decisions and be assessed on the

"Dennis Hower's comments really helped. He was very, very personable," student evaluation, GC 1534.

soundness of those decisions. Critical thinking is a major component of this course.

Business Writing

See *Composition*.

Chemistry

General College

Richard E. Uthe, Ph.D., Associate Professor, General College

GC 1166 Physical Science: Principles of Chemistry (7725)

14 assignments—5 exams—\$397.50—5 degree credits—text price \$45—Uthe

Fundamental principles and laws of chemistry; problem-solving techniques applied to chemistry. Topics: classification of matter, elements, atomic and molecular structure, compounds and chemical bonding, mole calculations, percent composition and empirical formulas, chemical equations and reactions, stoichiometry, solutions and solution concentrations, acids and bases, gases and gas laws, organic chemistry. Students become acquainted with everyday applications of chemistry, the contributions chemistry makes to modern society, and gain a general understanding of both the content and process of the science of chemistry. This course presumes no background in chemistry; it is a good foundation for further study of chemistry and related sciences. No laboratory component. (Prerequisite: elementary algebra)

“Physical Science: Principles of Chemistry has applications to real world problems; the course teaches one how to think,” student evaluation, GC 1166.

Child Psychology

College of Education and Human Development and General College

Also see *Psychology*.

Daniel Ashmead, Ph.D., Professor, Vanderbilt University

Diane Bearman, M.A., Research Assistant and Ph.D. candidate, Institute of Child Development
W. Andrew Collins, Ph.D., Professor, Child Psychology

Michael Harris, M.A., Research Assistant and Ph.D. candidate, Institute of Child Development
Sander M. Latts, Ph.D., Associate Professor, General College

Alexander A. Muller, Ph.D., Psychology
Catherine Sullivan, M.A., Teaching Assistant, Institute for Child Development
Amy Susman, M.A., Administrative Fellow and Ph.D. candidate, Institute of Child Development

CPsy 1301/3309 Introductory Child Psychology (8283/8281)

13 assignments—2 exams—\$318/\$374—4 degree credits—text price \$57—Harris/Collins

Designed to provide an understanding of children and their development, the methods used by child psychologists, and the critical evaluation of research. Topics: personality and social behavior, biological bases and cognitive development, the work of Jean Piaget. (Prerequisite: 5 credits introductory psychology) **CPsy 3309 is now in preparation; please inquire before enrolling.**

CPsy 3302 Infancy (8285)

13 assignments—2 exams—\$374—4 degree credits—text price \$63—Bearman

e-mail

Perceptual, motor, emotional, social, and cognitive development during the first two years of life; the developing infant in his or her social and physical environment. (Prerequisite: CPsy 1301 or consent of instructor) **See the *Technology-Enhanced Courses* section.**

CPsy 3331/5331 Introduction to Social Development /Processes of Social Development (8286/8287)

17/18 assignments—1 exam—\$374—4 degree credits—text price \$57—supplement \$10—Collins/Susman

e-mail

Processes of individual change from infancy through adolescence. Development of capacities for and influences of social relations. Research, methodology, and theoretical perspectives. Students enrolling in the 5xxx-level course will be expected to do extra work. (Prerequisite: CPsy 1301 or equivalent) **See the *Technology-Enhanced Courses* section.**

CPsy 5303 Adolescent Psychology (8282)

14 assignments—1 exam—\$374—4 degree credits—text price \$54—Collins/Harris

Survey of the behavior and psychological development of the adolescent, including

biological factors, cognition and creativity, moral development, parent-child relations, peers, ego identity, sexual development, school adjustment, social-cultural considerations, and the adolescent subculture. (Prerequisite: 5 credits introductory psychology)

GC 1284 Behavior Problems of Children (8288)

13 assignments—2 exams—\$318—4 degree credits—text price \$70—Latts

This course deals with identifying maladaptive behavior in children, and suggests ways of coping with children demonstrating such behavior. The focus is the child at home, at school, and in social relationships. Examines the effects of heredity, family experience, peer pressure, and socioeconomic class on the development of behavior problems in children.

Chinese

See *Institute of Languages and Literatures*.

Classical and Near Eastern Studies

College of Liberal Arts

Classics

Russell P. Dudrey, M.Th., M.A., Research Assistant and Ph.D. candidate, Classical and Near Eastern Studies

Gerald Erickson, Ph.D., Professor, Classical Studies

Oliver Nicholson, D.Phil., Assistant Professor, Classical and Near Eastern Studies

R.A. Swanson, Ph.D., Classical Studies

Clas 1019 Magic, Witchcraft, and the Occult in Greece and Rome (A524)

3 assignments—1 exam—\$318—4 degree credits—text price \$21—study guide \$10—10 audiocassettes \$30.75—Erickson

audio

Magic and witchcraft in classical literature and mythology. The practice of magic as observed from papyri, epigraphical and literary evidence.

Beliefs and practices concerning prophecy and the interpretation of dreams. Also explores the changing role of witchcraft and divine possession from early to later antiquity, and the relation of these phenomena to changes in economic and social conditions.

Clas 1023/3023 The Age of Constantine the Great (1301/1302)

4 assignments—\$318/\$344 (plus texts)—4 degree credits—Nicholson/staff

new

Change and continuity in the Roman Empire from its zenith in the 2nd century through the 3rd century crisis to the New Empire of Diocletian and Constantine, the first Christian emperor (circa A.D. 180 to 363). Proscription of classical paganism; Christianity as imperial religion. **This course is in preparation; please inquire before enrolling.**

Clas 1048 Greek and Latin Terminology in the Medical and Biological Sciences, and the Humanities (5248)

16 assignments—1 exam—\$159—2 degree credits—no required text—Swanson/Dudrey

Presentation in English contexts of Greek and Latin prefixes, suffixes, and root words in technical vocabularies; special attention to medical terminology. No previous study of Greek or Latin required. (Prerequisite: Clas 1045 recommended)

Clas 3970 Directed Studies: Roman Realities: Life and Thought in the Roman Empire (A523)

11 assignments—no exams—\$344—4 degree credits—text price \$86—study guide \$10—10 audiocassettes \$30.75—Erickson

audio

The eruption of Vesuvius buried and preserved the Italian cities of Pompeii and Herculaneum so quickly and completely that excavations enable us to construct a vivid picture of life at that time. Using this evidence and other research, this course focuses on social history through the study of art, archaeology, literature, dream interpretation, medical writing, and magic.

The Course Clusters section lists courses related by theme.

Course Descriptions

Clas 5004 Eroticism and Family Life in the Graeco-Roman World (A526)

10 assignments—no exams—\$344—4 degree credits—text price \$92—study guide \$10—supplement \$10—10 audiocassettes \$30.75—Erickson

audio

Analysis of Greek and Roman family life in the shaping of personality, diachronic change in modes of erotic expression, narcissism and homosexuality, the status and roles of women, and evolving views of sexual morality in the ancient world compared to present trends. Representative views taken for analysis and discussion from art and literature. Development of early Christian attitudes toward sexuality.

Clas 5005 Madness and Deviant Behavior in Ancient Greece and Rome (A522)

15 assignments—no exams—\$344—4 degree credits—text price \$21—study guide \$10—supplement \$10—15 audiocassettes \$45.75—Erickson

audio

Definitions of madness in Greece and Rome and theories of its etiology; assessment of predisposing factors in Greece and Rome. Examples of madness from mythology, legend, and history; cross-cultural comparison with contemporary United States.

Greek

Michael Tiffany, Teaching Assistant and Ph.D. candidate, Classical and Near Eastern Studies

Grk 1101 Beginning Classical Greek I (5901)

15 assignments—1 exam—\$397.50—5 degree credits—text price \$25—Tiffany

An introduction to the Homeric and classical Greek language: alphabet, vocabulary, and idioms. Selected readings from the *Iliad* and *Odyssey* of Homer and classical Greek selections of moderate difficulty. Written translation exercises and an introduction to scansion and meter.

Latin

George Rochefort, Ph.D., Classics
Michael Tiffany, Teaching Assistant and Ph.D. candidate, Classical and Near Eastern Studies

Note: Students are discouraged from enrolling concurrently in two language courses at the 1xxx level.

Lat 1101 Beginning Latin I (6201)

15 assignments—2 exams—\$397.50 (plus texts)—5 degree credits—Tiffany

Basic grammar and vocabulary, practice in reading and writing Latin, workbook exercises, easy Latin readings, and Roman legends in *38 Latin Stories*.

Lat 1102 Beginning Latin II (6207)

15 assignments—2 exams—\$397.50—5 degree credits—text price \$24—Tiffany

Continuation of Lat 1101. Similar in content and method, leading to connected reading in *38 Latin Stories*. (Prerequisite: Lat 1101 or equivalent)

Lat 1103 Selections from Latin Literature (6208)

11 assignments—2 exams—\$397.50 (plus texts)—5 degree credits—Tiffany

A review of the elements of Lat 1101 and Lat 1102, with a shift of emphasis to longer passages of continuous reading in *38 Latin Stories*. A considerable amount of historical and literary background is presented in English to orient the student to the material. (Prerequisite: Lat 1102 or equivalent)

Lat 1104 Latin Prose and Poetry: Caesar and Others (6209)

15 assignments—2 exams—\$397.50 (plus texts)—5 degree credits—Tiffany

Selections from Cicero, Livy, and Ovid are read. In addition to the review of Latin grammar, which is incorporated in the readings, the readings familiarize students with the legends of Rome's founding and early heroes, the defeat of its army by Hannibal at Cannae, the first important speech of its most brilliant orator, Cicero, his correspondence after the assassination of Julius Caesar, and Ovid's poetic interpretation of several Greek myths. Literary and historical background material is provided in English. (Prerequisite: Lat 1103 or equivalent)

Lat 3105 Latin Poetry: Cicero (6210)

16 lessons—1 exam—\$430 (plus texts)—5 degree credits—Rochefort/Tiffany

The complete speech "Pro Rabirio." (Prerequisite: Lat 1103 or equivalent)

"I am a senior citizen and *love* Independent Study," Beulah Anderson.

Lat 3106 Latin Poetry: Vergil's Aeneid (6211)

17 assignments—2 exams—\$430 (plus texts)—5 degree credits—Rochefort/Tiffany

Readings of selections from Books I-II; background material about Roman life and thought is included in the text. (Prerequisite: Lat 1103 or equivalent)

Comparative Literature

See *Cultural Studies and Comparative Literature*.

Composition and Communication

College of Liberal Arts and General College

Also see *English, Creative and Professional Writing*.

Harold J. Alford, Ph.D., English

Richard Carr, M.A., Teaching Assistant and Ph.D. candidate, English

Barry Edwards, Teaching Assistant and Ph.D. candidate, English

Martha Edwards, Teaching Assistant and Ph.D. candidate, History

Sonia Feder-Lewis, Teaching Assistant and Ph.D. candidate, English

Justin J. O'Connell, B.A., English, Continuing Education and Extension/University College

Mark Reschke, Teaching Assistant and Ph.D. candidate, English

Donald Ross, Jr., Ph.D., Professor, English

Thomas Ryan, Teaching Assistant and Ph.D. candidate, Rhetoric

Lida Strot, M.A., Assistant Director and Instructor, Composition and Communication

Alex J. Wang, Teaching Assistant and Ph.D. candidate, Composition and Communication

Colette Wanless-Sobel, Ph.D., Lecturer, Composition and Communication

Note: Students who need help with their writing can use the General College Reading and Writing Center's e-mail help line. Contact the center at writers@maroon.tc.umn.edu.

Comp 0011 Preparation for Writing Practice (3517)

7 assignments—no exams—\$238.50—no credit—no required text—Carr

This course is for students who need to build confidence in their writing ability. Exercises

emphasize writing as a process—from generating and developing ideas, to writing clearly, to revising. S-N grading only.

Comp 1011 Writing Practice I (3543)

15 assignments—no exams—\$397.50—5 degree credits—text price \$32—M. Edwards/Ryan

The novice, rusty, or insecure writer learns 22 “don'ts”—common errors of the beginning writer—and gains a clear, confident, college-level approach to writing. Each unit introduces several blunders, such as the passive voice and the apathetic title, and presents strategies for recognizing and overcoming them. Because writing is a learned skill and not a mysterious talent, much emphasis is on prewriting, from choosing an appropriate topic to considering the audience.

Comp 1031 Introduction to Technical and Business Communication (V351)

8 assignments—no exams—\$159 (plus texts)—2 degree credits—study guide \$10—video rental \$50 (\$25 refund)—Ross

video

Introduction to the processes used to define a topic, draft, and rewrite reports for business, government, and technical fields. This is not a general-purpose composition course. Projects will be situated in a business, engineering, government, or technical setting.

Comp 3011 Writing about Literature (3535)

9 assignments—1 exam—\$344—4 degree credits—text price \$74—Carr

Developing a critical argument about literary texts (novels, poems, plays, short stories) with attention to use of secondary sources. Examination and use of different modes of explication and criticism. (Prerequisite: Writing Practice requirement)

Comp 3012 Writing in the Humanities (3536)

12 assignments—no exams—\$344—4 degree credits—text price \$40—Carr

Emphasizes writing about the kind of texts encountered in philosophy, history, cultural anthropology, social work, and interdisciplinary fields. The critical reading strategies applied in several short writing assignments help students become more effective interpreters of literary

Parking and building maps are printed on page 128 and the inside back cover of this bulletin.

Over the next few years, Independent Study student Natalie Cartwright hopes to achieve two goals: a doctorate in applied math and a spot on the 1998 U.S. Olympic cross-country ski team. A 1993 graduate of the University of Vermont, she is now enrolled in her second Independent Study course, Russ 1102. "To get a doctorate," Cartwright says, "you need to be fluent in a foreign language." Cartwright skis for the Gitchi Gummi Ski Association in Duluth, where she lives when she's not involved in cross-country ski competitions. The 1998 Winter Olympics will be held in Nagano, Japan. Keep your fingers crossed: the skier you see practicing Russian on the cross-country trails may be an Independent Study "classmate."



and nonliterary texts. Topics: effective analysis and argument, including the proper use and presentation of textual evidence, with attention paid to the evaluation of sources. Intended for majors in anthropology, art history, geography, history, humanities, international relations, philosophy, political science, and social work, among others. (Prerequisite: Writing Practice requirement or equivalent)

Comp 3013 Writing for the Arts (3537)

11 assignments—no exams—\$344—4 degree credits—text price \$38—Strot

Descriptions of painting, film, music, architecture, and other types of art (other than literature) as the basis for analysis. Initial emphasis is on developing concise and unambiguous descriptions of art objects or performances. The chief emphasis is on how descriptions and organization of content serve as the basis for more complicated writing assignments, such as formal analyses, reviews, and review-based research. (Prerequisite: Writing Practice requirement or equivalent)

Comp 3014 Writing in the Social Sciences (3538)

10 assignments—no exams—\$344—4 degree credits—text price \$24—Wanless-Sobel

e-mail

Strategies for expressing quantitative or statistical information in clear prose. How statistical tables and summaries interact with written text. How to

develop narrative and descriptive techniques for producing case studies and histories. Emphasizes the proper use of qualitative information and case histories in the analysis of complex situations, and how writing should change for different audiences. Intended for social science majors. (Prerequisite: Writing Practice requirement or equivalent) **See the *Technology-Enhanced Courses* section.**

Comp 3014 Writing in the Social Sciences (3546)

10 assignments—no exams—\$344—4 degree credits—text price \$24—computer disks \$5—Wanless-Sobel

e-mail computer

See above. Students must have access to an Apple Macintosh with a hard drive or be able to use a microcomputer in the University's computer labs. **See the *Technology-Enhanced Courses* section.**

Comp 3015 Writing about Science (3539)

12 assignments—no exams—\$344—4 degree credits—text price \$21—supplement \$5—Reschke

e-mail

Designed to improve the writing ability of students interested in science, this course focuses on writing about science (general) and writing for science (special). The various tasks and forms of science writing are discussed and practiced. Also considers the writing process and what makes for rhetorical effectiveness: organization, support,

clarity, cleanliness, and appropriateness for the audience. The course attempts to respond to individual student needs, interests, and abilities. (Prerequisite: Writing Practice requirement or equivalent) See the *Technology-Enhanced Courses* section.

Comp 3022 Critical Reading and Writing for Management (3545)

11 assignments—no exams—\$344—4 degree credits—text price \$33—B. Edwards

This course develops general strategies for engaging texts critically, both as a reader and as a writer. The three major assignments—abstract, critique, and synthesis—gradually teach the skills needed for precise understanding of texts, critical analyses of texts, and sophisticated use of them. (Prerequisite: Writing Practice requirement or equivalent; management or pre-management student)

Comp 3031 Technical Writing for Engineers (3541)

12 assignments—no exams—\$344—4 degree credits—text price \$52—Wang

e-mail

Emphasizing the writing process, this course helps students learn about technical writing for different audiences and ways to achieve it. Also introduces various formats for technical writing (e.g., instruction manual, memo, formal report). (Prerequisite: Comp 1011 or equivalent) See the *Technology-Enhanced Courses* section.

Comp 3031 Technical Writing for Engineers (3544)

8 assignments—no exams—\$344—4 degree credits—no required text—computer disks \$5—Ross

computer

See above. Students must have access to an Apple Macintosh with Hypercard or be able to use the microcomputers in one of the University's computer labs. See the *Technology-Enhanced Courses* section.

Comp 3032 Preprofessional Writing for Business (3542)

12 assignments—no exams—\$344—4 degree credits—text price \$75—Feder-Lewis

Focus on content, form, and style of business writing in reports, job-search materials, and

correspondence. Case studies and practical examples. (Prerequisite: Writing Practice requirement or equivalent)

GC 0402 Grammar and Usage Review (3505)

11 assignments—1 exam—\$238.50—no credit—text price \$26—Alford/O'Connell

A step-by-step review and explanation of grammatical forms, punctuation, spelling, and vocabulary. Recommended for anyone who needs to start with English composition fundamentals, or requires a thorough review of grammar. Additional exercises provided when assignments indicate a student should do extra work. No theme or letter writing required.

Computers

Institute of Technology and General College

Lan Lai, Teaching Assistant and Ph.D. candidate, Computer Science

Douglas Robertson, Ph.D., Professor, General College

James Slagle, Ph.D., Professor, Computer Science

CSci 3001 Perspectives on Computers and Society (1902)

11 assignments—1 exam—\$374 (plus text)—4 degree credits—Slagle/Lai

The impact of computers on society—partnership or confrontation? History of development, potential for use, computer utility, benefits and possible problems, chip technology and computer-aided design, software development and maintenance, networks, use and misuse, graphics, artificial intelligence, computer-based education, applications in the office, business, and industry. Study guide available in print, in braille, and on audiocassette.

GC 1571 Introduction to Microcomputer Applications (1978)

9 assignments—1 exam—\$397.50—5 degree credits—text price \$35—computer disks \$5—Robertson

computer

Introduction to IBM microcomputer applications, including microcomputer components, operating system (DOS), word processing, spreadsheet, and database management

When you enroll in a college-credit course, you receive a free e-mail address.

software. This hands-on laboratory course emphasizes solving problems using popular microcomputer applications software. All assignments are done on computer. Software (i.e., the word processor, spreadsheet, and database management programs) is provided with the course materials; students must indicate whether they want 5.25 or 3.5 inch disks. Access to an IBM PC or compatible or ability to use a microcomputer in the University's computer labs required. (Prerequisite: elementary algebra) **See the *Technology-Enhanced Courses* section.**

GC 1572 Introduction to Computer Programming (1979)

9 assignments—3 exams—\$397.50—5 degree credits—text price \$38—computer disks \$5—Robertson

computer

Students design, write, code, and run computer programs written in the BASIC computer language. Emphasizes writing properly structured and documented programs to solve problems from the social and natural sciences. Topics: problem-solving techniques as applied to computing, elements of BASIC, external data file manipulation, writing structured programs, integration of programming with data created by other applications. Gives background for further programming courses. Students must have access to an IBM or IBM-compatible microcomputer with a BASIC interpreter or be able to use a microcomputer in the University's computer labs. Two disks are included with the course materials; students must indicate whether they want 5.25 or 3.5 inch disks. (Prerequisite: GC 1571 or microcomputer experience and elementary algebra) **See the *Technology-Enhanced Courses* section.**

Cultural Studies and Comparative Literature

College of Liberal Arts

Jon Bassewitz, M.A., Ph.D. candidate, Cultural Studies and Comparative Literature
Claudia Crawford, Ph.D., Comparative Literature
Anatoly Liberman, Ph.D., Professor, German
Laura Schere, Teaching Assistant and Ph.D. candidate, Cultural Studies and Comparative Literature

CSCS 1301 Discourse and Society I: Reading Culture (5213)

10 assignments—no exams—\$318—4 degree credits—text price \$49—supplies \$1—supplement \$10—Bassewitz

The foundation course of the Cultural Studies program. Prepares students to speak, write, and think critically about different forms of cultural production by studying art, literature, mass media, social history, and cultural theory. Students examine the discursive practices through which meanings, values, beliefs, and identities are constructed. Focuses on cultural artifacts drawn from Western "high art," folk culture, and mass culture, selected to prompt students to reflect on how discourses organize their behaviors, desires, and concepts. Helps students to develop the intellectual confidence to assert themselves as cultural producers and consumers.

CSCS 1302 Discourse and Society II: Meaning and History (5215)

9 assignments—2 exams—\$318—4 degree credits—text price \$78—supplement \$10—video rental \$50 (\$25 refund)—Crawford/Schere

video e-mail

Examination of historically grounded case studies—early 18th century art, two novels, a historical work, an anthropological work, an opera, examples of mass culture, and analysis of advertising. Ways social and political conflicts of particular moments and specific locations are represented in the discourse of these case studies. Students relate the discourses in the case studies to the socio-historical conditions out of which they arise by learning to apply Marxist critical theory, discourse theory, ideological critique, theories of gender and race. **See the *Technology-Enhanced Courses* section.**

CLit 5414 European Folktales (A362)

1 assignment—2 exams—\$344—4 degree credits—text price \$61—study guide \$10—10 audiocassettes \$30.75—Liberman

audio

This course is devoted to the folktales of Germany, Scandinavia, France, Russia, and England. Discusses the structure, message for adults and children, and origins of folktales as a genre, and compares the tales of different nations and states. Folktales are analyzed within the broader context of oral literature and folklore.

Some courses use computer software. See the *Technology-Enhanced Courses* section.

Curriculum and Instruction

See *Education, Curriculum and Instruction*.

Danish

See *German, Scandinavian, and Dutch*.

Design, Housing, and Apparel

Human Ecology

Holly Hart, M.A., *Design, Housing, and Apparel*

Shari Peterson, Ph.D., *Assistant Professor, General College*

DHA 0620 Introduction to Drafting (1210)

10 assignments—2 exams—\$318 (plus supplies)—no credit—video rental \$50 (\$25 refund)—supplement \$10—Hart

new

video

Beginning architectural instruction in the use of drafting instruments. Emphasis on drafting fundamentals: lines, lettering, introduction to orthographic and paraline drawings. Introduction to architectural symbols and vocabulary as related to interior design. Will serve as the prerequisite to DHA 1621. **This course is in preparation; please inquire before enrolling.**

DHA 1211 Introduction to Retail Merchandising (2005)

11 assignments—3 exams—\$318—4 degree credits—text price \$67—Peterson

General aspects of retailing, including types of retailers, market research, management, buying, promotion, and trends. Focuses on aspects of retailing careers within the structure of existing retail firms. Students will develop a retail portfolio that will assist them in networking, including opportunities to conduct interviews with practitioners in the field. (Formerly TexC 1641 and 1642.)

East Asian Studies

College of Liberal Arts

Also see *Institute of Languages and Literatures*.

Peter Ditmanson, M.A., *Ph.D. candidate, East Asian Studies*

EAS 1032 Religions of East Asia (5521)

13 assignments—no exams—\$318 (plus texts)—4 degree credits—Ditmanson

new

A survey of the religious traditions of China and Japan, exploring beliefs and practices from antiquity to modern times. Course covers elements of Confucianism, Taoism, Buddhism, and Shintoism, and examines the general role of religion in East Asian society. Readings include both primary and secondary materials. Students may receive credit for only one of these courses: EAS 1032 or RelS 1032.

Ecology, Evolution, and Behavior

Biological Sciences

Also see *Forest Resources*.

William Lamberts, B.S., *Teaching Assistant, Ecology, Evolution, and Behavior*

Catherine Zabinski, Ph.D., *Ecology, Evolution, and Behavior*

EEB 3001 Introduction to Ecology (2011)

10 assignments—2 exams—\$374—4 degree credits—text price \$59—Zabinski/Lamberts

Basic concepts in ecology; organization, development, and functioning of ecosystems; population growth and regulation. Human impact on ecosystems. Open to juniors and above but not to biology majors.

Economics

College of Liberal Arts

Curt Anderson, Ph.D., *Professor of Economics and Director, Center for Economic Education, University of Minnesota, Duluth*

Shamlall Gupta, Ph.D., *Lecturer, Continuing Education and Extension/University College*

Richard W. Lichty, Ph.D., *Professor, Economics, University of Minnesota, Duluth*

Jerrold M. Peterson, Ph.D., *Professor, Economics, University of Minnesota, Duluth*

Harlan Smith, Ph.D., *Professor Emeritus, Economics*

“Introduction to Ecology was humorous, informative, and interesting,” student evaluation, EEB 3001.

Econ 1002 Economics and Society (8101) (U of M Duluth)

20 assignments—2 exams—\$318 (plus texts)—4 degree credits—Anderson/Lichty

new

General description of the economy of the United States and analysis of contemporary economic problems. Provides a simple framework used by economists for analysis of these issues and problems. Designed for liberal education purposes; students in the BAC or BBA degree may not apply these credits to the degree, and economics students may not apply these credits to the major or minor. Credits for this Duluth course will appear on your U of M Twin Cities transcript. **This course is now in preparation; please inquire before enrolling.**

Econ 1005 Principles of Economics: Macro (2105) (U of M Duluth)

2 assignments—2 exams—\$318 (plus texts)—4 degree credits—computer disks \$5—Peterson

new

computer

National income accounting and theory, public finance, money, monetary policy, international trade, economic growth. Students must have access to an Apple Macintosh computer. Of value to general education students and required for economics majors and minors. Credits for this Duluth course will appear on your U of M Twin Cities transcript. A-F grading only. **See the *Technology-Enhanced Courses* section.**

Econ 1101 Principles of Microeconomics (2103)

14 assignments—2 exams—\$318—4 degree credits—text price \$81—Gupta

Formerly Econ 1002. A study of the basic economic principles of pricing and resource allocation. Includes demand and supply, consumer choice, costs of production; competition, monopoly, oligopoly; determination of wages, rent, interest, profits; income distribution; farm and urban problems. Students may receive credit for only one of these courses: Econ 1101 or Econ 1002. Check with your adviser regarding transfer of credits for the Duluth Econ 1002 course.

Econ 1102 Principles of Macroeconomics (2104)

14 assignments—2 exams—\$318—4 degree credits—text price \$81—Gupta

Formerly Econ 1001. Determinants of national income, national income accounting, unemployment, inflation. Classical and Keynesian theories. Money and banking, monetary and fiscal policy, international economic relations, and less-developed nations. Students may receive credit for only one of these courses: Econ 1102 or Econ 1001. (Prerequisite: Econ 1101)

Econ 3102 Macroeconomic Theory (2164)

16 assignments—2 exams—\$344 (plus texts)—4 degree credits—Gupta

Factors determining price level, amount of employment and unemployment, total spending by consumers. Business investments, total savings, national income, the effects of government spending, taxes, and monetary policy on price level. Employment, output, and national income. (Prerequisite: Econ 3101 or equivalent, Math 1111 or 1131 or 1201 or equivalent)

Econ 3701/5721 Money and Banking (2168/2169)

15 assignments—2 exams—\$344—4 degree credits—text price \$65—Smith

Money, banks, and financial intermediaries as economic institutions; the mechanics of monetary transactions; the value of money; international monetary relationships; issues relating to monetary policy. (Prerequisite for 3701: Econ 1102 or equivalent. Prerequisite for 5721: Econ 3102 or equivalent. Economics majors must register for 5721 and will not receive credit for 3701.)

Education

College of Education and Human Development

Curriculum and Instruction

Simon Hooper, Ph.D., Associate Professor, Instructional Systems and Technology, Curriculum and Instruction

Helen L. Jorstad, Ph.D., Associate Professor, Curriculum and Instruction

Gregory Sales, Ph.D., Associate Professor, Curriculum and Instruction

Walter Wenda, M.S., Teaching Assistant and Ph.D. candidate, Education

"Principles of Microeconomics provides a broad base on the subject and gave me the fundamentals necessary to pursue further study," student evaluation, Econ 1101.

CI 5336 A Systematic Approach to Designing Instruction (1011)

5 assignments—3 exams—\$280.50—3 degree credits—text price \$32—video rental \$50 (\$25 refund)—Sales

video

Formerly CISy 5201. Instructional materials design in accordance with systems principles, including design of a specific unit of courseware. Students watch videos edited from live classroom lectures and discussions. A-F grading only. Students may receive credit for only one of these courses: CI 5336 or CISy 5201.

CI 5362 Introduction to Computer-Based Instructional Design (3653)

7 assignments—no exams—\$374(plus texts)—4 degree credits—computer disks \$5—video rental \$50 (\$25 refund)—Hooper

new video computer

Formerly CISy 5006. Introduction to designing computer-based instructional programs through programming. Students do not need a mathematics or science background. Students learn to use the application Authorware Professional, a state-of-the-art authoring language developed for designing computer-based presentations, drills, tutorials, games, and simulations. Must have access to a Macintosh computer with System 7. Learning components include study guide and text, disk of demo files, application disk, and videos. A-F grading only. Students may receive credit for only one of these courses: CI 5362 or CISy 5006. (Prerequisite for Curriculum and Instruction students: CISy 5003 or CI 5360) See the *Technology-Enhanced Courses* section.

CI 5620 Second Languages and Young Children: Like Child's Play (1010)

7 assignments—no exams—\$374—4 degree credits—text price \$37—study guide \$10—supplement \$10—video rental \$50 (\$25 refund)—Jorstad/Wenda

video e-mail

Formerly Elem 5321. Examines current approaches to teaching second languages to young children, with emphasis on innovative curricular models. Provides information about the way young children acquire language and the effects of bilingualism on child development,

and presents rationales, advantages, and pedagogical theories of various program models, from full immersion to programs that emphasize cultural understanding. The video programs show visits to actual classrooms in action, bilingual and immigrant families, and interviews with a variety of outstanding specialists in the field. Students may receive credit for only one of these courses: Elem 5321 or CI 5620. See the *Technology-Enhanced Courses* section.

Education

Helen Carlson, Professor, Instructional Science, University of Minnesota, Duluth

Educ 5666 Creating Social Studies Curriculum Materials (2696) (U of M Duluth)

10 assignments—no exams—\$280.50—3 degree credits—text price \$68—Carlson

Using historic sites and related materials to create new social studies curricula. Implementing and evaluating living history learning experiences in the classroom. Credits for this Duluth course will appear on your U of M Twin Cities transcript.

Educational Policy and Administration

Arthur M. Harkins, Ph.D., Associate Professor, Educational Policy and Administration
John Hoyt, Professor Emeritus, Agricultural and Applied Economics

EdPA 5099 Directed Study: Inventing the Future—Living, Learning, and Working in the 1990s (V265)

3 assignments—no exams—\$374—4 degree credits—text price \$15—study guide \$10—supplement \$10—video rental \$50 (\$25 refund)—Harkins

video e-mail

This field-based course is for managers, human services and health services workers, counselors, teachers, and upper-division or graduate students in many fields. The lessons will guide you as you bring your own and your organization's values and goals to the course. Topics: trends in work, leisure, education, technology, health, spirituality, home life, and more. See the *Technology-Enhanced Courses* section.

"In Inventing the Future, I liked actually having to think about what the future will be for business," student evaluation, EdPA 5099.

EdPA 5110 Personal Time Management and Effective Administration (2681)

10 assignments—no exams—\$187—2 degree credits—text price \$45—Hoyt

This course is ideal for any individual who “doesn’t have enough time.” It teaches practical, pragmatic approaches—using examples and samples of proven techniques—to the problems of scheduling, organizing work, delegating, setting priorities, handling interruptions and meetings, doing the distasteful and the difficult, setting up filing systems that work, and finding the time to do those things you really want to do, but don’t have time for.

Elementary Education

See *Education, Curriculum and Instruction*.

Educational Psychology

L. Sunny Hansen, Ph.D., Professor, Educational Psychology

Karen Rogers, Ph.D., Associate Professor, University of St. Thomas

S. Jay Samuels, Ph.D., Professor, Educational Psychology

EPsy 5112 Knowing, Learning, and Thinking (2694)

15 assignments—no exams—\$374—4 degree credits—text price \$41—Samuels

Principles of human information processing, issues in memory and thought, discussion of mental operations in comprehension and understanding, and analysis of intellectual structures supporting problem solving in applied settings. A-F grading only.

EPsy 5114 Psychology of Student Learning (2695)

17 assignments—no exams—\$280.50—3 degree credits—text price \$51—Samuels

Whether or not one chooses teaching as a career, this course should be of interest because it discusses fascinating topics—how to improve learning comprehension, memory, managing group behavior, intelligence, problem solving, and motivation. A-F grading only.

EPsy 5400 Workshop: Counseling Psychology—Integrative Career Planning (V263)

3 assignments—1 exam—\$374—4 degree credits—text price \$21—study guide \$10—supplement \$10—video rental \$50 (\$25 refund)—Hansen

video

Based on profound changes occurring in work, technology, education, family, and society, this course provides students with an in-depth approach to career planning called “Integrative Life Planning” (ILP). Up-to-date information about labor market trends and workforce and work pattern changes is combined with the latest knowledge of how to plan for work and other life roles in the 21st century. Other topics: life span career development, assessing individual and cultural identities, career socialization and stereotyping, and career change/transitions. Appropriate as an update for counselors, advisers, career specialists, human resource development personnel, and others who help students, clients, or employees with life career decisions.

EPsy 5690 Education of the Gifted and Talented (V264)

4 assignments—no exams—\$280.50—3 degree credits—text price \$52—study guide \$10—video rental \$50 (\$25 refund)—Rogers

video

Origin and development of terms such as *giftedness*, *creativity*, *genius*, *talent*, and *intelligence*; implications for educational practice; current issues and trends. A-F grading only.

Engineering

Michael McDonald, Ph.D., Associate Professor, Chemical Engineering, University of Minnesota, Duluth

Engr 3016 Deformable Body Mechanics (3238.1) (U of M Duluth)

8 assignments—3 exams—\$374—4 degree credits—text price \$74—McDonald

Introductory treatment of stress and strain at a point. Stress-strain relationships in two dimensions. Linear theory of torsion. Bending stresses. Deflection of determinate and indeterminate beams. Instability. A-F grading only. Credits for this Duluth course will appear on your U of M

“The ‘customer service’ of your department has been excellent—thanks so much,”
Karla Block,
Minneapolis.

Twin Cities transcript. (Prerequisite: Engr 3015, statics, and concurrent registration in Math 3380, Differential Equations I)

English

College of Liberal Arts and General College

Note: For English majors, Independent Study credits are limited to 16, at any level, including English 3970, 3980, and 5970, and EngW courses. English minors should consult their adviser for current requirements.

Literature

Chester G. Anderson, Ph.D., Professor, English

Beverly Atkinson, M.A., Associate to the Director of Undergraduate Studies, English

Lillian Bridwell-Bowles, Ed.D., Associate Professor, English

Anna Marie Fellego, M.A., Ph.D. candidate, English

Philip Furia, Ph.D., Professor, English

Jill Gidmark, Ph.D., Professor, General College

Christine M. Gordon, M.A., Assistant to the Director of Creative Writing, English

Edward Griffin, Ph.D., Professor, English

Maureen Heacock, Teaching Assistant and Ph.D. candidate, English

Patricia Hodgell, Ph.D., English, Lecturer, Continuing Education and Extension/University College

John D. Hurrell, Ph.D., Professor Emeritus, English

Alex Kurak, Ph.D., Professor Emeritus, General College

Archibald Leyasmeyer, Ph.D., Associate Professor, English

Anatoly Liberman, Ph.D., Professor, German

Peter Lock, Ph.D., Professor Emeritus, French and Italian

Toni McNaron, Ph.D., Professor, English and Women's Studies

Carol A. Miller, Ph.D., Associate Professor, General College

William E. Mishler, Ph.D., Associate Professor, Scandinavian Languages and Literatures

Victoria Poulakis, Ph.D., Professor, English, Northern Virginia Community College

Peter Reed, Ph.D., Professor, English

Amanda Roll-Kuhne, Teaching Assistant and Ph.D. candidate, English

Donald Ross, Jr., Ph.D., Professor, English

Richard Shaw, M.A., Professor, Liberal Arts, Minneapolis College of Art and Design

Robert Solotaroff, Ph.D., Professor, English

Frederick Suppe, Ph.D., Associate Professor, History, Ball State University

Engl 1016 Introduction to American Literature: Some Major Figures and Themes (A366)

9 assignments—1 exam—\$318—4 degree credits—text price \$73—study guide \$10—10 audiocassettes \$30.75—Griffin/Roll-Kuhne

audio

Introduction to some major themes and writers in American literature. Readings from Faulkner, Malamud, Melville, Fitzgerald, Chopin, Ellison, Henry James, and Dickey are complemented by audio programs by Professor Edward Griffin. Emphasizes the American experience, myths of the American wilderness, dreams of innocence, freedom, and social responsibility among the peoples of the New World.

Engl 1017 Introduction to Modern Poetry (A380)

5 assignments—1 exam—\$318—4 degree credits—text price \$35—study guide \$10—10 audiocassettes \$30.75—Furia

audio

A study of modern British and American poetry organized around themes (war, the city, nature, death, love) and including such writers as Yeats, Thomas, Auden, Eliot, Frost, Cummings, and Stevens. Audio programs by Lynette Reini-Grandell complement this course.

Engl 1019 Introduction to Modern Drama (3677)

10 assignments—2 exams—\$318—4 degree credits—text price \$52—Hurrell/Leyasmeyer

A study of modern drama, including plays by Ibsen, Strindberg, Chekhov, Synge, Shaw, O'Neill, Pirandello, Brecht, Williams, Miller, Ionesco, and Beckett. (Prerequisite: Comp 1011 or equivalent)

Engl 1020 Introduction to Literature: Science Fiction and Fantasy (A364)

5 assignments—no exams—\$318—4 degree credits—text price \$62—study guide \$10—10 audiocassettes \$30.75—Hodgell

audio

The evolution of science fiction and fantasy from their 19th-century roots to the popular literature and mass media phenomenon they are today. Considers such major themes as religion,

Independent Study provides access to education for students with disabilities.

sexuality, the future of technology in the works of Ursula K. LeGuin, Frank Herbert, and Robert Heinlein, among others, and the contributions of such eminent and diverse fantasists as J. R. R. Tolkien, George Lucas, and Stephen King.

Engl 1591 Literature of American Minorities (A379)

10 assignments—2 exams—\$318—4 degree credits—text price \$92—study guide \$10—10 audiocassettes \$30.75—Roll-Kuhne and Heacock

audio

Fiction, autobiography, and poetry by award-winning African American, American Indian, Asian American, and Chicano/Chicana writers. Introduction to social and literary issues affecting minority group identity and individual writers. Offers perspectives on American minorities through the lens of modern and contemporary literature. Fulfills Chambers Group D/Cultural Pluralism requirement and CLE Lit/Cultural Diversity requirement. Audio programs by Amanda Roll-Kuhne and Lynette Reini-Grandell complement this course.

Engl 3008 Techniques of Literary Study (3630)

10 assignments—no exams—\$344—4 degree credits—text price \$88—Ross, Atkinson, and Gordon

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. This course is a required foundation course for all English majors and minors.

Engl 3008 Techniques of Literary Study (GIS version, G102)

10 assignments—no exams—\$344—4 degree credits—text price \$88—Ross

group

See above. Students attend five evening interactive TV classes on the Twin Cities or Rochester campus on Jan. 11, Feb. 8, Mar. 14, May 2, and May 30. Professor Ross will visit the Rochester Center during the course. Students are strongly recommended to complete the course in six months. To register for this Group Independent Study version, use the registration form in this bulletin and check YES next to the question

concerning GIS. **Register Nov. 13–Dec. 15, 1995. For more information, see the *Technology-Enhanced Courses* section.**

Engl 3111 Survey of English Literature I (3657)

9 assignments—1 exam—\$344—4 degree credits—text price \$41—7 audiocassettes \$22.50—McNaron

audio

A historical survey of major figures, movements, and trends in English literature and culture during the Middle Ages and the Renaissance. Chaucer, Shakespeare, Marlowe, and the metaphysical poets, along with topics such as attitudes toward women and generic development of the sonnet and drama, are featured.

Engl 3111 Survey of English Literature I (GIS version, G105)

9 assignments—1 exam—\$344—4 degree credits—text price \$41—7 audiocassettes \$22.50—McNaron

group audio

See above. Students attend evening interactive TV classes on either the Twin Cities or Rochester campus on April 16, May 14, June 18, and July 23. Professor McNaron will visit the Rochester Center during the course. Students are strongly recommended to complete the course in six months. To register for this Group Independent Study version, use the registration form in this bulletin and check YES next to the question concerning GIS. **Register Feb. 21–Mar. 27, 1996. For more information, see the *Technology-Enhanced Courses* section.**

Engl 3112 Survey of English Literature II (3658)

12 assignments—1 exam—\$344—4 degree credits—text price \$50—McNaron

This course focuses on the literature of the Restoration and the 18th century (Age of Reason), especially Milton, Johnson, Swift, Austen, and Pope.

Engl 3113 Survey of English Literature III (3659)

15 assignments—no exams—\$344—4 degree credits—text price \$52—McNaron

Explores the literature of the Romantic and Victorian periods (19th century), especially Wordsworth, Keats, Wollstonecraft, Tennyson, the Brownings, the Shelleys, and Dickens.

Group Independent Study combines the advantages of classroom and independent learning. See the *Technology-Enhanced Courses* section.

Engl 3241 Shakespeare I (A378)

12 assignments—no exams—\$344—4 degree credits—text price \$44—study guide \$10—10 audiocassettes \$30.75—Shaw

audio

Study of Shakespeare's early and middle comedies, tragedies, and history plays (*Romeo and Juliet*, *A Midsummer Night's Dream*, *Henry IV Part I*, *Henry V*, *Much Ado about Nothing*, *Julius Caesar*, and *Hamlet*). Guided reading questions provided. Special attention is given to ways of reading the plays to help students imagine theatrical performance. Students may begin with either Shakespeare I or II; both courses contain introductory materials. The course study guide contains optional help for the first two plays. The plays to be read in Shakespeare I or II should be the student's primary basis for choice. The same audiocassettes are used for both courses.

Engl 3242 Shakespeare II (A377)

12 assignments—no exams—\$344—4 degree credits—text price \$33—study guide \$10—10 audiocassettes \$30.75—Shaw

audio

Study of Shakespeare's middle comedies and tragedies and late romances with attention to history, literary values, and theater performance. Special attention is given to ways of reading the plays that will help students imagine theatrical performance. Students read *As You Like It*, *Macbeth*, *King Lear*, *Antony and Cleopatra*, *Coriolanus*, *The Winter's Tale*, and *The Tempest*. Engl 3241 is not a prerequisite; both courses contain introductory materials. The selection of plays to be read in Shakespeare I or II should be the student's primary basis for choice. The same audiocassettes are used in both courses.

Engl 3410 Major American Writers: Fitzgerald and Hemingway (A365)

2 assignments—2 exams—\$344—4 degree credits—text price \$80—study guide \$10—10 audiocassettes \$30.75—Furia

audio

An examination of the short stories of two contemporary early 20th-century writers—F. Scott Fitzgerald and Ernest Hemingway—in

the context of Jazz Age literary, cultural, and artistic developments.

Engl 3410 Major American Writers: Voices and Visions in American Poetry (V361)

3 assignments—1 exam—\$344—4 degree credits—text price \$36—study guide \$10—video rental \$50 (\$25 refund)—Furia

video

A study of major American poets, such as Whitman, Dickinson, Frost, Pound, Hughes, and Plath, through an analysis of representative works and video programs on the life, times, and poems of each poet.

Engl 3411 Survey of American Literature to 1850 (3672)

13 assignments—1 exam—\$344—4 degree credits—text price \$44—McNaron

The development of American literature and thought from pre-Columbian days through the early American Renaissance. Authors studied include Native American and African American writers from the colonial and early national periods, together with such major white writers as Poe, Emerson, and Hawthorne.

Engl 3412 Survey of American Literature, 1850–1900 (3682)

11 assignments—1 exam—\$344—4 degree credits—text price \$82—McNaron

Literature and thought from the American Renaissance through the 19th century. Authors studied include Whitman and Dickinson as poetic giants, Twain and Chopin as experimental novelists.

Engl 3413 Survey of American Literature, 1900–1945 (A375)

15 assignments—no exams—\$344—4 degree credits—text price \$62—study guide \$10—10 audiocassettes \$30.75—McNaron

audio

American literature during the breakup of social and literary norms caused by two world wars, feminism, and the emergence of the civil rights movement. Authors studied include Frost and Eliot, Fitzgerald, Hurston and Hughes, Wright, Olsen, and Rich.

Many courses fulfill the requirements for CEE/UC certificates. See pages 107–116.

If quarter of registration is important for financial aid or other reasons, see page 15 for term dates.

Engl 3455 American Short Story (3684)

5 assignments—1 exam—\$344—4 degree credits—text price \$59—supplement \$10—2 audiocassettes \$7—Furia

audio

Historical developments of the literary forms of the short story in American culture. Students read the works of Irving, Poe, Melville, Crane, Cather, Hemingway, Updike, Cheever, and others.

Engl 3851 The English Language (V360)

10 assignments—no exams—\$344—4 degree credits—text price \$34—study guide \$10—video rental \$50 (\$25 refund)—Bridwell-Bowles/Fellegly

video

An introduction to the English language and English linguistics, examining structure (phonetics, phonology, morphology, syntax, semantics), language acquisition, historical change, dialect variation, and aspects of the social life of English.

Engl 3860 Topics in the English Language: The Origin of English Words (3690)

4 assignments—no exams—\$344—4 degree credits—text price \$16—7 audiocassettes \$22.50—Lieberman

audio

An introduction to the origins of English words. Explains how the words of English emerged, clashed, combined, lost their initial freshness, and died, to give way to upstarts whose day will come.

Engl 3910 Topics in English and North American Literature: The Celtic World (A360)

1 assignment—2 exams—\$344—4 degree credits—text price \$49—study guide \$10—10 audiocassettes \$30.75—Suppe

audio

A wide-ranging introductory survey of the history, music, folk ways, and traditional oral culture of the six Celtic countries (Brittany, Cornwall, Ireland, Isle of Man, Scotland, and Wales). Topics: ancient culture; tribal society; saints, druids, bards, poets; age of King Arthur; languages; and the future of Celtic culture.

Engl 3910 Topics in English and North American Literature: D. H. Lawrence and Freud (A374)

6 assignments—1 exam—\$344—4 degree credits—text price \$72—study guide \$10—10 audiocassettes \$30.75—Lock and Mishler

audio

An intensive reading of the prose fiction and poetry of D. H. Lawrence alongside key texts by Freud. The course examines modern culture and its discontents as interpreted by these two writers.

Engl 3920 Topics in Anglophone Literature: Modern Women Writers (3685)

12 assignments—2 exams—\$344—4 degree credits—text price \$57—Poulakis

Fiction and poetry by British and American women writers from 1900 to the present—Kate Chopin, Edith Wharton, Virginia Woolf, Doris Lessing, Eudora Welty, Sylvia Plath, Anne Sexton, Toni Morrison, Audre Lorde, and Adrienne Rich. Emphasizes how these writers perceived themselves as women and as artists, their analyses of the roles of women in modern society, and the literary qualities of their works.

Engl 3940 Figures in English and North American Literature: The Woman Writer: 19th-Century Fiction (3686)

12 assignments—2 exams—\$344—4 degree credits—text price \$42—Poulakis

Short stories and novels by 19th-century women writers—Jane Austen, Elizabeth Gaskell, Charlotte Brontë, Harriet Beecher Stowe, George Eliot, Sarah Orne Jewett, Mary E. Wilkins Freeman, and Charlotte Perkins Gilman. Emphasizes the ways women writers' professional roles evolved during the 19th century, the conflicts they faced as their careers developed, the extent to which their writing satisfied the requirements of their audiences, and the literary qualities of their works.

Engl 3940 Figures in English and North American Literature: Hemingway (3689)

2 assignments—2 exams—\$344—4 degree credits—text price \$26—study guide \$10—Solotaroff

The course covers what most critics consider the most impressive segment of Hemingway's career, the period between 1922 and 1929. Students will read two novels from this period—*The Sun Also Rises* and *A Farewell to*

Arms—and two collections of stories, *In Our Time* and *Men without Women*.

Engl 5153 20th-Century English Novel (3660)

2 assignments—2 exams—\$344—4 degree credits—text price \$85—Reed

A study of the British novel in the 20th century, emphasizing some of its main ideas, techniques, and relationships to the history of the novel. Authors of historical or representative importance, such as Forster, Joyce, Lawrence, Woolf, Waugh, Cary, Amis, Sillitoe, and Murdoch. (Prerequisite: Comp 1011 or equivalent and 5 additional credits in English, Humanities, or Cultural Studies and Comparative Literature)

Engl 5175 Modern Drama since 1920: Pirandello to Pinter (3661)

3 assignments—4 exams—\$344—4 degree credits—text price \$78—Leyasmeyer

Introduction to the themes and techniques of modern drama since the 1920s. Topics: the nature of the theatrical play, the “modernism” in modern drama, and 13 important plays written from 1920 to 1960 by 10 major playwrights—Pirandello, Anouilh, Giradoux, O’Neill, Miller, Lorca, Williams, Brecht, Beckett, and Pinter.

Engl 5363 James Joyce (A371)

3 assignments—1 exam—\$344—4 degree credits—text price \$82—study guide \$10—10 audiocassettes \$30.75—Anderson

audio

An introduction to the life and works of Joyce, including the epiphanies; the poems; the play *Dubliners*; and the novels *Portrait of the Artist as a Young Man* and *Ulysses* and bits of *Finnegans Wake*.

Engl 5432 American Poetry: 1890–1940 (3687)

11 assignments—no exams—\$344—4 degree credits—text price \$94—supplies \$3—Furia

Examination of American poetry from 1890 to 1940. Includes historical and intellectual background and poetic theory. Poets include Frost, Stevens, Pound, Eliot, Moore, and Williams.

GC 1365 Literatures of the United States (3611)

14 assignments—1 exam—\$318—4 degree credits—text price \$25—Gidmark

e-mail

A historic survey and analysis of nearly 30 giants of American fiction. Students examine the development of the form of the short story in America to enhance their understanding and appreciation of a wide range of writers, from Irving’s early sketches to Barthelme’s and Coover’s present-day experiments. **See the *Technology-Enhanced Courses* section.**

GC 1371 Literature: Reading Short Stories (3610)

11 assignments—2 exams—\$318 (plus texts)—4 degree credits—Kurak

By virtue of their brevity, short stories are an ideal introduction to literature for beginners, and represent the depth and variety of literature for more sophisticated readers. This course encompasses ideas about the human experience by American, British, and continental authors.

GC 1816 African-American Literature (3612)

10 assignments—no exams—\$318—4 degree credits—text price \$58—Gidmark

e-mail

Students read and evaluate the poetry, drama, folklore, short stories, and longer fiction of black authors. Students assess the artists’ perceptions and interpretations of black culture in America from colonial times to the present. **See the *Technology-Enhanced Courses* section.**

GC 1836 Asian-American Literature (3613)

10 assignments—1 exam—\$318—4 degree credits—text price \$61—Gidmark

e-mail

The challenges presented to Asian immigrants and their children are examined, with attention to the clash between ethnic identity and the American situation. Students analyze historical and contemporary works by Carlos Bulosan, Louis Chu, Joy Kogawa, Amy Tan, and others. **See the *Technology-Enhanced Courses* section.**

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Creative and Professional Writing

Michael Dennis Browne, M.A., Professor, English
Judith Daniel, M.A., Instructor, Creative Writing
Margot Fortunato Galt, Ph.D., English, Continuing Education and Extension/University College

Patricia Hampl, M.F.A., Professor, English
A. Dee Ready, M.A., Instructor, Continuing Education and Extension/University College
William Reichard, M.A., Ph.D. candidate, English

Wesbrook Hall is accessible by ramp and elevator.

EngW 3102 Intermediate Fiction Writing: The Short Story (A353)

6 assignments—no exams—\$344—4 degree credits—text price \$35—study guide \$10—5 audiocassettes \$17—Daniel

audio **e-mail**

The short story form provides a challenge to beginning and intermediate writers. Its compressed form occupies a position closer to poetry than the novel. Its variety and flexibility demand a close study of craft and a willingness to take risks. Students explore the craft of the short story by writing, reading, and listening. The tapes contain a discussion of craft and content with several writers. See the *Technology-Enhanced Courses* section.

EngW 3103 Intermediate Poetry Writing (A350)

5 assignments—no exams—\$344—4 degree credits—text price \$51—study guide \$10—10 audiocassettes \$30.75—Browne/Reichard

audio

Offers students a variety of exercises and readings to help them develop an awareness of the way they use language to describe the worlds of experience and imagination. Substantial reading in contemporary poetry to help students focus on image, diction, voice, tone, and structure in their own poems.

EngW 3110 Topics in Creative Writing: Journaling into Fiction (A357)

7 assignments—no exams—\$344—4 degree credits—text price \$20—study guide \$10—10 audiocassettes \$30.75—Daniel

audio **e-mail**

An exploration of the links between private and public writing. Students build on the strengths and skills already present in their private writing

as they move more fully into the world of the imagination to create fiction, poems, or song. Writing assignments illustrate the ways private journaling may be turned into fiction, using techniques such as dreams, prose poems, stream of consciousness, found art, and others. See the *Technology-Enhanced Courses* section.

EngW 5201 Journal and Memoir Writing (A358)

3 assignments—no exams—\$344—4 degree credits—text price \$47—study guide \$10—10 audiocassettes \$30.75—Hampl/Galt

audio

Students read selected journals and memoirs, as well as complete exercises based on the readings. The journal writing process—informal and fragmentary—is the basis of all writing suggestions; students are encouraged to work from memory and personal experience. The course project is to write a memoir or autobiographical work. Students are encouraged to submit more polished memoir or autobiography and not the originating journal exercises.

EngW 5202 Journal and Memoir Writing II: Memory in Different Modes (3571)

4 assignments—no exams—\$344—4 degree credits—text price \$45—5 audiocassettes \$17—Galt

audio

Using the process of writing from brainstorming to drafting to revision, this course guides students to involve memory in writing several genres: poems, traditional memoir essays, and fiction. The course also considers how cultures shape memory differently, suggesting work from Native American, Hispanic, Asian American, and African American writers.

EngW 5401 Introduction to Professional Editing (3520)

4 assignments—1 exam—\$344—4 degree credits—text price \$63—Ready

Beginning editing, from substantive editing to the nature of the editor-writer relationship: manuscript reading, author queries, rewrite and style, extensive discussion of different kinds of editing including substantive editing and mechanical editing. Students develop editing awareness and skills by working on varied writing samples.

Entomology

Agricultural, Food, and Environmental Sciences

Marla Spivak, Ph.D., Assistant Professor, Entomology

Ent 3020 Honey Bee Biology and Management (1005)

12 assignments—2 exams—\$374—4 degree credits—text price \$50—Spivak

e-mail

Learn the fascinating art and science of beekeeping. This course is useful to both nonexperienced and experienced beekeepers. Topics: history of beekeeping, life history and behavior of honey bees, colony and apiary management, pollination and hive products, and honey bee diseases and their control. A-F grading only. See the *Technology-Enhanced Courses* section.

Family Studies

Human Ecology and General College

Linda Burkett, Ph.D., Licensed Consulting Psychologist, St. Paul

William Doherty, Ph.D., Associate Professor, Family Social Science

David C. Dollahite, Ph.D., Family Social Science
John Engel, Ph.D., Professor, Human Resources, University of Hawaii

Sander M. Latts, Ph.D., Associate Professor, General College

Marilyn M. Rossmann, Ph.D., Associate Professor, Vocational Technical Education
Mary Seabloom, Research Assistant and Ph.D. candidate, Family Social Science

FSoS 5001 Human Sexual Behavior (4103)

16 assignments—2 exams—\$430—5 degree credits—text price \$53—Engel

Exploration of biological, psychological, and social aspects of human sexuality. Topics: sexual development over the life span; anatomy and physiology; reproduction; birth control and abortion; sexual response, arousal, and communication; love; sex research; gender roles and sex differences; heterosexuality, homosexuality, and bisexuality; sexual variations and economics; sexual coercion and abuse; dysfunction and therapy; sexually transmitted diseases; ethics, religion, and law; and sex education.

FSoS 5200 Family Systems (V417)

1 assignment—2 exams—\$430—5 degree credits—text price \$81—study guide \$10—video rental \$50 (\$25 refund)—Dollahite and Doherty/Seabloom

video

Examination of the family as an institution and

Richard Brown, Independent Study's program director for technology and outreach, took a little trip last spring. But it wasn't a vacation. Brown, left, traveled to central Russia to meet with Asad Haroon, center, a Peace Corps volunteer in Russia, to work on a unique Independent Study offering. "We were approached by Haroon with the idea of letting students in Russia take Independent Study courses and send in their assignments using e-mail. There were a few logistic problems to overcome, which is why I went to Russia, but we've solved most of them and now groups of Russian students are enrolled in Independent Study courses," Brown said. "We still might face some snags as this project develops, but using e-mail computer technology gives Russian students the same chance to earn credits by taking our courses that other students have."



system of relationships. Current developments in the study of family, changes in American society, and their influence on family life. The course includes lectures, simulated family interaction, and participation of a studio audience on videocassettes. (Prerequisite: Soc 1001 and Psy 1001 or equivalents)

FSoS 5240 Special Topics in Family Social Science: Violence in the Family (4113)

11 assignments—2 exams—\$344—4 degree credits—text price \$51—Latts

This course focuses on the various forms of abuse (physical, psycho-emotional, sexual) found among family members—spouses, parents and children, siblings. Attention is given to the factors that bring about or inhibit family violence, and to prevention and treatment strategies.

FSoS 5240 Special Topics in Family Social Science: American Families in Transition (A416)

no assignments—2 exams—\$344/\$472 (grad rate, other schools)—4 degree credits—text price \$75—study guide \$10—10 audiocassettes \$30.75—Rossmann

audio

The family provides individuals with a link to society and a sense of identity. Through interviews with family scholars, this course presents a comprehensive view of family life and examines historical and contemporary family issues. The focus is on rapid changes in family life. **This course will count toward the Master of Education in Family Education. For application to other Master of Education degrees, check with your adviser.**

FSoS 5500 Racial and Ethnic Diversity in Families (4115)

9 assignments—no exams—\$344—4 degree credits—text price \$39—Burkett

Sociological overview of family structures and family values of various American racial and ethnic groups, including African Americans, Native Americans, Mexican Americans, Jews, and Asian Americans. Combines a study of research and case studies with individual projects to develop and enrich understanding of cultural diversity. Students may receive credit for only one of these courses: FSoS 5500 or FSoS 3240, Minority Families in the U.S.

GC 1722 Home Life: Parent-Child Relationships (4109)

10 assignments—2 exams—\$318 (plus texts)—4 degree credits—Latts

An interdisciplinary course to help students develop their own philosophy of child rearing—attitudes, principles, and perspectives—that will guide them in their relations to their children and performance of their parental responsibilities. Focuses on helpful information related to crises of parenthood. Research emphasizes principles of parent-child relations and prepares students for the tasks of parenthood.

Finance

Carlson School of Management

John W. Reik, M.B.A., J.D., Finance, Continuing Education and Extension/University College

Note: Students taking Carlson School of Management upper division undergraduate courses through CEE are expected to have completed the equivalent of 90 quarter college credits with a minimum of a B- grade average.

BFin 3000 Finance Fundamentals (1797)

no assignments—2 exams—\$374—4 degree credits—text price \$64—Reik

A comprehensive, analytical introduction to the principal concepts of finance. All major business financial decisions are discussed—balance-sheet and income-statement management, the general business environment, valuation theory, financial management decisions concerning uses and sources of funds, and a survey of the nation's financial markets. Must be taken A-F. (Prerequisite: Acct 1050 or 1025 and at least 90 credits completed or in progress)

Finnish

See German, Scandinavian, and Dutch.

Food Science and Nutrition

Food Science and Nutrition

Paul Brady, Ph.D., Lecturer, Food Science and Nutrition

Minnesota high school students may be eligible for tuition funding under the Post-Secondary Enrollment Options. Call 612-626-1666 for information.

Margaret Martini, Ph.D., R.D., Teaching Specialist, Food Science and Nutrition
David Smith, Ph.D., Professor, Food Science and Nutrition
Edmund A. Zottola, Ph.D., Professor, Food Science and Nutrition

FScN 1102 Technology of Food Processing (4304)

14 assignments—3 exams—\$318—4 degree credits—text price \$70—Zottola/Smith

Introduction to the technology of processing and distribution of foods, with reference to the prevention of biological, physical, and chemical deterioration. Changes in food composition, microbiological safety, food laws and regulations, technologies of the major food processes (canning, freezing, drying), and cereal and oilseed processing are considered. (Prerequisite: high school chemistry and biology)

FScN 1612 Principles of Nutrition (2107)

10 assignments—2 exams—\$318 (plus texts)—4 degree credits—Martini

new

A study of fundamental nutritional concepts (human nutritional requirements, the function of nutrients, and nature of deficiencies). Vegetarianism, weight loss, fad diets, activity, obesity, cancer, heart disease, food processing, safety, and world food problems. (Prerequisite: high school chemistry and biology) **This course is now in preparation; please inquire before enrolling.**

FScN 5111 Internetting for Biologists and Others (2106)

10 assignments—no exams—\$280.50—3 degree credits—no text—10 Internet "field trips"—Brady

Internet e-mail new

A course in skills needed to get the most out of the Internet. This course is presented entirely over the Internet. Subjects include static resources such as Gopher and Mosaic (World Wide Web), dynamic interaction, including IRC and MOOs (Diversity University and BioMOO), and facilities in between (e-mail, newsgroups). The course includes "lectures" (reading material and "virtual classroom" meetings) and "field trips" that use Internet tools.

Access to a computer with a modem or computer terminal with a connection to the Internet is necessary. (Registered students are automatically eligible for a U of M e-mail account.) Call Paul Brady (612-624-2259) or Richard Brown (612-624-4301) for more information. **See the Technology-Enhanced Courses section.**

Forest Resources

Natural Resources

Harold Scholten, Ph.D., Professor, Forest Resources

FR 1201 Conservation of Natural Resources (4203)

11 assignments—2 exams—\$238.50—3 degree credits—text price \$57—Scholten

e-mail

Current status, utilization, and sound management of natural resources with emphasis on the ecological approach. Conservation principles and their application to soil, water, forests, grasslands, wildlife, minerals, energy sources. **See the Technology-Enhanced Courses section.**

French and Italian

College of Liberal Arts

French

F. R. P. Akehurst, Ph.D., Professor, French
Cheryl Alcaya, M.A., Teaching Assistant and Ph.D. candidate, Education

Peter W. Lock, Ph.D., Professor Emeritus, French and Italian

Note: Students are discouraged from enrolling concurrently in two language courses at the 1xxx level.

Fren 0001 Reading French (5718)

17 assignments—1 exam—\$318—no credit—text price \$32—Akehurst

Fundamentals of grammar; reading of appropriate prose. Prepares for graduate reading examination in French. Must be taken S-N.

"The course (FScN 5111) equips the motivated student with ample skills to surf the 'net' with agility and grace,"
Pat LeGere,
Voorheesville, NY.

Course Descriptions

Fren 1101 Beginning French I (5711)

7 assignments—2 exams—\$397.50—5 degree credits—text/tape price \$166—video rental \$50 (\$25 refund)—Alcaya

audio **video**

Learn to understand and speak French while viewing 13 episodes of the video series *French in Action*, in which a young American man meets and interacts with a young French woman in Paris. Vignettes taken from French films, television, advertising, and cartoons. The audio-tapes, texts, workbook, and study guide will help you learn authentic language for basic conversation, and familiarize you with French culture.

Fren 1102 Beginning French II (5712)

7 assignments—2 exams—\$397.50—5 degree credits—text/tape price \$166—video rental \$50 (\$25 refund)—Alcaya

audio **video**

Continuation of French 1101. View episodes 14 through 26 of *French in Action*. (Prerequisite: Fren 1101 or 1 year high school French)

Fren 1103 Beginning French III (5713)

6 assignments—2 exams—\$397.50—5 degree credits—text/tape price \$166—video rental \$50 (\$25 refund)—Alcaya

audio **video**

Continuation of French 1102. View episodes 27 through 38 of *French in Action*. (Prerequisite: Fren 1102 or 2 years high school French)

Fren 3104 French Literary Texts: Novel, Poetry, Drama (5710)

15 assignments—1 exam—\$344—4 degree credits—text price \$33—Akehurst

Provides training in reading literary works of poetry, drama, and prose. Completely in French.

Fren 3602 Literature in English Translation: Flaubert and Modern Writing (5714)

7 assignments—1 exam—\$344—4 degree credits—text price \$29—supplement \$10—Lock

An intensive reading in English of major works by Flaubert in the context of Freudian criticism and modern writing.

Italian

Lucyann Carlone, M.A., Teaching Specialist, French and Italian

Ital 1101 Beginning Italian I (5402)

7 assignments—1 exam—\$397.50—5 degree credits—text price \$96—4 audiocassettes \$13.75—Carlone

audio

Equal emphasis is given to four skills: listening, speaking, reading, and writing. Instructional materials also introduce many cultural aspects of contemporary Italian life. An excellent preparation for the traveler to Italy.

Gardening

See *Horticultural Science*.

General College

As nearly as possible, General College courses are planned to be complete in themselves. Emphasis is on relationships within and among fields of knowledge rather than intensive study of isolated segments. Most courses do not have prerequisites. Refer to the following pages for General College courses.

Arts, Communication, and Philosophy

GC 0402—Grammar and Usage Review, 41
GC 1355—Ethics, 77
GC 1365—Literatures of the U.S., 51
GC 1371—Literature: Reading Short Stories, 51
GC 1816—African-American Literature, 51
GC 1836—Asian-American Literature, 51

Science, Business, and Mathematics

GC 0611—Mathematics Skills Review, 72
GC 0621—Elementary Algebra, 72
GC 0623—Plane Geometry, 72
GC 0625—Intermediate Algebra, Part I, 72
GC 0631—Intermediate Algebra, Part II, 73
GC 1161—Solar System Astronomy, 31
GC 1162—Stellar Astronomy, 32
GC 1166—Principles of Chemistry, 36
GC 1235—Law in Society, 34
GC 1454—Statistics, 85
GC 1511—Intro. to Business and Society, 35
GC 1513—Small Business Fundamentals, 35
GC 1534—Practical Law, 35

You can register by phone or fax using a credit card. You can charge your tuition and course materials using VISA, Discover, or MasterCard.

- GC 1540—Accounting Fundamentals I, 35
 GC 1542—Accounting Fundamentals II, 35
 GC 1551—Marketing: Introduction, 35
 GC 1553—Marketing: Principles of Management, 35
 GC 1571—Intro. to Microcomputer Applications, 41
 GC 1572—Intro. to Computer Programming, 42

Social and Behavioral Sciences

- GC 1283—Psychology of Human Development, 81
 GC 1284—Behavior Problems of Children, 37
 GC 1722—Home Life: Parent-Child Relationships, 54

Genetics

See *Biology*.

Geography

College of Liberal Arts

- Eric Anderson, Ph.D., Geography*
William Baldus, M.A., Geography
John Borchert, Ph.D., Regents' Professor Emeritus, Geography
Roger Clemence, M.L.A. and M. Arch., Professor and Associate Dean, College of Architecture and Landscape Architecture
Philip Gersmehl, Ph.D., Professor, Geography
Judith Martin, Ph.D., Associate Professor, Geography and Urban Studies, Center for Urban and Regional Affairs
Kathleen Schroeder, Teaching Assistant and Ph.D. candidate, Geography
Roderick H. Squires, Ph.D., Associate Professor, Geography
John Tichy, M.A., Teaching Assistant, Geography
Barbara VanDrasek, M.A., Teaching Assistant and Ph.D. candidate, Geography
Althea Willette, Teaching Assistant and Ph.D. candidate, Geography
James E. Young, Ph.D., Geography

Geog 1501 The Language of Maps (4409)

13 assignments—4 exams—\$397.50—5 degree credits—text price \$29—Gersmehl/Tichy

Study of various phases of the process of using maps to communicate ideas. Ways of describ-

ing location, distance, direction, area, and other basic spatial concepts. Data classification, map symbols, methods of analyzing patterns on maps. Use of maps to inform and/or persuade.

Geog 3101 Geography of the United States and Canada (4453)

10 assignments—2 exams—\$344—4 degree credits—text price \$75—Anderson/Willette

Learn the tools of geographic analysis through readings and exercises focused on ten major regions of the United States and Canada. Emphasis on comparison and analysis of road maps, landform maps, and thematic maps to decipher the cultural, physical, and economic nuances that make all locations geographically unique.

Geog 3111 Geography of Minnesota (V443)

12 assignments—no exams—\$344—4 degree credits—text price \$39—study guide \$10—video rental \$50 (\$25 refund)—Borchert

video

The changing geography of Minnesota and the Upper Midwest. Explores the legacy from the railroad era, transformation in the auto-air age, and the emerging future. Assignments include papers applying course principles to a local community selected by the student.

Geog 3121 Geography of Latin America (4450)

7 assignments—1 exam—\$344—4 degree credits—text price \$71—study guide \$10—video rental \$50 (\$25 refund)—Schroeder/Baldus

video

Provides an opportunity to study and evaluate the character and diversity of Mexico, Central America, the Caribbean, and South America. Individual countries and major regions within them are analyzed. Emphasizes the influence of cultural and physical elements on people and their use of the land. Problems are considered on a national and regional basis. Students view one of two videos, *Missing* or *Official Story*.

Geog 3181 Russia and Environs (4452)

13 assignments—2 exams—\$344—4 degree credits—text price \$70—Young/VanDrasek

An introduction to the diverse characteristics and regions of the former Soviet Union. Emphasizes analysis of the physical, cultural, and economic phenomena in the former

Independent Study
 has students from
 all 50 states and
 many countries.

Course Descriptions

U.S.S.R., including the impact of present political and economic trends.

Geog 3355 Environmental Problems (4454)

4 assignments—no exams—\$344—4 degree credits—no required text—supplement \$10—Squires

Defining and “solving” environmental problems; implementing “solutions.”

Geog 5856 The Meanings of Place: City, Town, and Countryside (1409)

8 assignments—no exams—\$344/\$862 (Grad School, U of M)/\$472 (grad rate, other schools)—4 degree credits—text price \$65—study guide \$20—video rental \$50 (\$25 refund)—Clemence and Martin

video grad

See AmSt 3920/5920. Also available as Arch 5724. A-F grading only. Students may receive credit for only one of these courses: Arch 5724, AmSt 3920, AmSt 5920, or Geog 5856. *Graduate credit is available for this course.*

Geology and Geophysics

Institute of Technology

Kent C. Kirkby, Ph.D., Instructor/Coordinator, Geology and Geophysics

Robert E. Sloan, Ph.D., Professor, Geology and Geophysics

Geo 1001 The Dynamic Earth: An Introduction to Geology (4501)

16 assignments—2 exams—\$318—4 degree credits—text price \$59—Sloan/Kirkby

An introduction to general geology. Survey of the main features of the physical world and the processes that have evoked them. Topics: plate tectonics, rock formation, weathering, soils, deserts, oceans, and the phenomena of earthquakes, glaciers, and volcanoes. Rock and mineral collection recommended.

Geo 1002 Historical Geology (4503)

13 assignments—2 exams—\$318—4 degree credits—text price \$55—Sloan/staff

Evolution of the earth and its inhabitants from their origins to the present, emphasizing the past 600 million years. Outlines the fundamentals of geology, evolution, and paleontology. Does **not** include a lab.

German, Scandinavian, and Dutch

College of Liberal Arts

Note: Students are discouraged from enrolling concurrently in two language courses at the 1xxx level.

Danish

Torben Staur, Teaching Assistant, German, Scandinavian, and Dutch, Ph.D. candidate

Dan 1101 Beginning Danish I (6350)

4 assignments—no exams—\$397.50—5 degree credits—text and audiocassettes \$169—Staur

audio

Development of reading, writing, and speaking skills. The audiocassettes are at the Minnesota Book Center.

Finnish

Börje Vähämäki, Ph.D., Professor, University of Toronto

Fin 1101 Beginning Finnish I (5617)

13 assignments—1 exam—\$397.50—5 degree credits—text price \$33—3 audiocassettes \$18.50—Vähämäki

audio new

Teaches the beginnings of the Finnish language skills of listening, speaking, reading, and writing. Offers a two-tier approach to Finnish: communicative skills and the basics of vocabulary and grammar. Emphasizes social situations for which students learn useful/helpful phrases. Includes some composition. First in a series of three courses (Fin 1101–1103) built around the new North American textbook, *Mastering Finnish*, which is accompanied by cassettes.

Fin 1102 Beginning Finnish II (5618)

\$397.50 (plus texts/tapes)—5 degree credits—Vähämäki

audio new

Continuation of Fin 1101. (Prerequisite: Fin 1101 or equivalent) **This course is now in preparation; please inquire before enrolling.**

Independent
Study offers
language courses
in Danish,
Finnish, French,
German, Greek,
Italian, Latin,
Norwegian,
Russian, Spanish,
and Swedish.

Fin 1103 Beginning Finnish III (5619)

\$397.50 (plus texts/tapes)—5 degree credits—
Vähämäki

audio new

Continuation of Fin 1102. (Prerequisite: Fin 1102 or equivalent) **This course is now in preparation; please inquire before enrolling.**

German

Ray Wakefield, Ph.D., Associate Professor, German

Gerhard Weiss, Ph.D., Professor, German

Ger 1101 Beginning German I (5805)

no assignments—5 exams—\$397.50—5 degree credits—text price \$51—4 audiocassettes \$13.75—computer disk \$5—video rental \$50 (\$25 refund)—Wakefield

audio computer video

Introduction to reading through familiarity with "survival" situations; beginning listening with videos of everyday events; introduction to the frequently used constructions of German through a text and a computer tutorial on a 3.5-inch disk. Students must have access to a Macintosh or an IBM/IBM-compatible with 256 K. See the *Technology-Enhanced Courses* section.

Ger 1102 Beginning German II (5806)

no assignments—5 exams—\$397.50 (plus audio-cassettes)—5 degree credits—text price \$51—computer disk \$5—video rental \$50 (\$25 refund)—Wakefield

audio computer video

Continuation of Ger 1101. Building reading comprehension through expansion of topics related to travel and recent history; expanding listening comprehension with videos relating to broader topics; reviewing German constructions with a text and computer tutorial. Students must have access to a Macintosh or an IBM/IBM-compatible with 256 K. (Prerequisite: Ger 1101 or 1 year of high school German) See the *Technology-Enhanced Courses* section.

Ger 1103 Beginning German III (5807)

no assignments—5 exams—\$397.50 (plus audio-cassettes)—5 degree credits—text price \$51—computer disk \$5—video rental \$50 (\$25 refund)—Wakefield

audio computer video

Continuation of Ger 1102. Pushing reading comprehension to the intermediate level with a work of popular fiction; intermediate listening comprehension practice with videos depicting contemporary German life; reviewing German constructions with a text and computer tutorial. Students must have access to a Macintosh or an IBM/IBM-compatible with 256 K. (Prerequisite: Ger 1102 or 2 years of high school German) See the *Technology-Enhanced Courses* section.

Ger 3610 German Authors and/or Topics in Translation: Postwar Developments as Seen through the Works of Heinrich Böll (5809)

7 assignments—1 exam—\$344—4 degree credits—Weiss

Through reading Böll's novels and short stories, students gain an understanding of the development of West German society since 1945. Students learn about postwar Germany through extensive study notes and some outside reading. Students also are asked to use media resources (films, magazines, videos, as available) to round out their knowledge of contemporary Germany. **Students must have access to a large library to obtain the required texts.**

Norwegian

William Solheim, Ph.D., Lecturer, Continuing Education and Extension/University College

Nor 1101 Beginning Norwegian I (6303)

10 assignments—no exams—\$397.50—5 degree credits—text price \$71—4 audiocassettes \$95—Solheim

audio

An introduction to basic Norwegian grammar, pronunciation, sentence structure, reading, and writing. Emphasis placed on vocabulary and expressions used in everyday situations, while providing a foundation for further study. The audiocassettes are at the Minnesota Book Center.

"Your school was the only one that sent a course introduction about my requested course,"
Cynthia Hotaling,
New York City.

Scandinavian

William E. Mishler, Ph.D., Associate Professor, German, Scandinavian, and Dutch

Scan 3602 The Scandinavian Fairy Tale as Literature (A631)

4 assignments—no exams—\$344—4 degree credits—text price \$22—study guide \$10—10 audiocassettes \$30.75—Mishler

audio

An exploration of Hans Christian Andersen's stories and tales (in English).

Swedish

Göran Stockenström, Ph.D., Professor, German, Scandinavian, and Dutch
Gunnar Thander, M.A., Teaching Assistant and Ph.D. candidate, German, Scandinavian, and Dutch

Swed 1101 Beginning Swedish I (6900)

17 assignments—no exams—\$397.50—5 degree credits—text price \$68—4 audiocassettes \$13.75—Thander

audio

An introduction to written and spoken Swedish through basic grammar, workbook exercises, and easy composition. Vocabulary useful to everyday situations is covered.

Swed 1102 Beginning Swedish II (6902)

22 assignments—no exams—\$397.50—5 degree credits—text price \$68—2 audiocassettes \$7—Thander

audio

Continued development of basic skills in reading, writing, and speaking. Exercises include grammar and oral assignments. (Prerequisite: Swed 1101)

Swed 1103 Beginning Swedish III (6903)

20 assignments—no exams—\$397.50—5 degree credits—text price \$68—1 audiocassette \$3.50—Thander

audio

A continuation of foundation skills in reading, writing, and listening. (Prerequisite: Swed 1102)

Swed 1104 Intermediate Swedish I (6904)

22 assignments—no exams—\$397.50—5 degree credits—text price \$68—1 audiocassette \$3.50—Thander

audio

Further development of reading, writing, and listening skills; grammar review; composition. (Prerequisite: Swed 1103)

Swed 1105 Intermediate Swedish II (6905)

11 assignments—no exams—\$397.50—5 degree credits—text price \$154—2 audiocassettes \$7—Thander

audio

Intended to allow students to gradually begin to master Swedish in advanced contexts. Texts by various Swedish writers. Grammar exercises cover a systematic overview of prepositions, word order, and sentence structure. Texts include two dictionaries. (Prerequisite: Swed 1104)

Swed 1106 Intermediate Swedish III (6906)

13 assignments—no exams—\$397.50—5 degree credits—text price \$97—2 audiocassettes \$7—Thander

audio

Advanced texts focusing on four themes: Swedish history, Swedish culture, modern Sweden, and Swedish American immigration. Systematic review of grammar, as well as advanced points of grammar. (Prerequisite: Swed 1105)

Swed 3670 Readings in Swedish Literary Texts (6907)

9 assignments—1 exam—\$344—4 degree credits—text price \$60—supplement \$10—1 audiocassette \$3.50—Stockenström/Thander

audio

Swedish immigrants and discussion of Swedes in America will be used to develop reading and writing skills. Samples from taped interviews are available on audiocassette. (Prerequisite: Swed 1106 or equivalent)

Greek

See Classical and Near Eastern Studies.

Group Independent
Study courses are marked with this icon:

group

History

College of Liberal Arts

Sheldon Anderson, Ph.D., History
Deborah Bachrach, Ph.D., History, Continuing Education and Extension/University College
Hyman Berman, Ph.D., Professor, History
Jane Carroll, Ph.D., History, College of St. Catherine
Amalendu Chakraborty, Ph.D., Lecturer, Continuing Education and Extension/University College
Diana Dalbotten, M.A., Teaching Assistant and Ph.D. candidate, History
Arlene Díaz, M.A. and Ph.D. candidate, History
Edward Farmer, Ph.D., Professor, History
Luis González, Ph.D. candidate, History
George D. Green, Ph.D., Associate Professor, History
Timothy Hoogland, Ph.D., History
Calvin Hoovestol, J.D., Ph.D., History
Anna Kirchmann, M.A., Research Assistant and Ph.D. candidate, History
David Kopf, Ph.D., Professor, History
Kris Lane, B.A., Teaching Assistant and Ph.D. candidate, History
Joy Lintelman, Ph.D., History
Katherine Meerse, M.A. and Ph.D. candidate, History
Michael Metcalf, Fil. dr., Professor, History and Scandinavian Studies and Director, Institute of International Studies
Paul L. Murphy, Ph.D., Professor, History
Thomas Noonan, Ph.D., Professor, History
Carla Rahn Phillips, Ph.D., Professor, History
William D. Phillips, Ph.D., Professor, History
Elsabet Quirin, Teaching Assistant and Ph.D. candidate, History
David Rayson, M.A., Instructor and Ph.D. candidate, History
Carrie Ronnander, M.A., Ph.D. candidate, History
Kenneth Steuer, M.S.F.S., M.A., History
Edward Tebbenhoff, M.A., Teaching Assistant and Ph.D. candidate, History
Rudolph Vecoli, Ph.D., Professor, History
Mark Vink, M.A., Ph.D. candidate, History
Linda Wimmer, M.A., Teaching Assistant and Ph.D. candidate, History
Robert Wolff, Teaching Assistant and Ph.D. candidate, History
David Woodard, M.A., Instructor and Ph.D. candidate, History

"Introduction to Law, and the Law of Contracts and Sales Contracts applies to my daily life," student evaluation, BLaw 3058.

Hist 1001 Introduction to Modern European History since the Middle Ages (4737)

12 assignments—2 exams—\$318—4 degree credits—text price \$68—Anderson/Dalbotten

e-mail

Survey of European history to the 18th century. Emphasizes the rise of the nation-state and the role of Christianity and exploration in its development. See the *Technology-Enhanced Courses* section.

Hist 1002 Introduction to Modern European History since the Middle Ages (4738)

12 assignments—2 exams—\$318—4 degree credits—text price \$68—Anderson/Dalbotten

e-mail

Continuation of Hist 1001, but need not be taken in sequence. Survey of European history in the 18th and 19th centuries. Emphasizes the struggle for control of the state, the Age of Reason, and the French Revolution. See the *Technology-Enhanced Courses* section.

Hist 1003 Introduction to Modern European History since the Middle Ages (4739)

12 assignments—2 exams—\$318—4 degree credits—text price \$68—Anderson/Dalbotten

e-mail

Continuation of Hist 1002, but need not be taken in sequence. Survey of European history in the 19th and 20th centuries. Emphasizes the impact of industrialization on 19th-century civilization and the international problems of the 20th century. See the *Technology-Enhanced Courses* section.

Hist 1011 Introduction to World History I (4821)

10 assignments—1 exam—\$397.50—5 degree credits—text price \$73—Farmer/Vink

new

Case studies of different periods of ancient and medieval history, including civilizations in Mesopotamia, Egypt, India, and China; the first classical empires of China and India, imperial Rome, as well as premodern empires in Mali, Mexico, and Peru; and universal religions—Hinduism, Buddhism, Christianity, and Islam.

Hist 1012 Introduction to World History II (4822)

9 assignments—1 exam—\$397.50—5 degree credits—text price \$100—supplement \$10—video rental \$50 (\$25 refund)—Wimmer/Quirin

video

Continuation of Hist 1011, but need not be taken in sequence. Explores world civilizations in the era of global contact, 1450 to 1950, from a comparative perspective. Topics: linking the globe through trade and migration; cultural, racial, and religious contact and clash in the Americas, Africa, and Asia; colonialism, industrialization, nationalism, independence movements, and decolonization. A-F grading only.

Hist 1013 Introduction to World History III (4823)

11 assignments—\$397.50—5 degree credits—text price \$51—video rental \$50 (\$25 refund)—Wimmer/Quirin

video

Continuation of Hist 1012, but need not be taken in sequence. Covers the 50 years since World War II. The course themes of ecology and human rights are used to investigate how larger events, such as the cold war and economic development, affected the identity and livelihood of individuals. Other topics include destabilization, decolonization and national independence, different strategies for economic development, race relations, social movements, apartheid, international division of labor, urbanization, and the environment. A-F grading only.

Hist 1151/3151 English History to the 17th Century (4709/4710)

12 assignments—2 exams—\$318/\$344 (plus texts)—4 degree credits—Bachrach

First of a two-course sequence. Covers the history of England from earliest times to the death of Queen Elizabeth I. Students enrolling in the 3xxx-level course will be expected to do extra work.

Hist 1152/3152 English History from the 17th Century to the Present (4711/4712)

12 assignments—2 exams—\$318/\$344 (plus texts)—4 degree credits—Bachrach

Second of a two-course sequence. Covers the period from the Stuart Accession through the cold war. Students enrolling in the 3xxx-level course will be expected to do additional work.

Hist 1301 American History I (4767)

12 assignments—no exams—\$397.50—5 degree credits—text price \$67—supplement \$10—video rental \$50 (\$25 refund)—Wolff and Tebbenhoff/Ronnander

video e-mail

U.S. history from colonial times through Reconstruction. Emphasizes political, economic, social, and diplomatic history. Assignments cover a wide variety of topics, including the witchcraft trials of Salem, slavery and the American Republic, the Revolution, the Civil War. Two videocassettes, *Glory* and *Drums along the Mohawk*, are required viewing. See the *Technology-Enhanced Courses* section.

Hist 1302 American History II (4729)

11 assignments—1 exam—\$397.50—5 degree credits—text price \$90—supplement \$10—video rental \$50 (\$25 refund)—Green and Hoovestol/Woodard

video e-mail

U.S. history from 1880 to the present. Students will study "Captains of Industry" and the rise of industrial America; the populist and progressive reform movements; the world wars; the depression and the New Deal; the cold war, the civil rights movement, the women's movement, the Vietnam War, and the Reagan years. See the *Technology-Enhanced Courses* section.

Hist 1305 Cultural Pluralism in American History (A476)

7 assignments—3 exams—\$318—4 degree credits—text price \$64—study guide \$10—supplement \$10—10 audiocassettes \$30.75—Meerse

audio

A survey of the development of American society focusing on the roles of African Americans, Native Americans, Asian Americans, and Hispanic Americans. Issues of cultural pluralism, empowerment, racism, and intergroup relations are explored within a comparative historical framework.

Hist 1451/3451 Survey of Civilizations in Ancient Asia (4741/4744)

15 assignments—1 exam—\$318/\$344—4 degree credits—text price \$35—Kopf/Chakraborty

Ancient societies, political systems, religions

Our office is open
until 8 p.m. on
Tuesdays and
Thursdays for
limited services.

Course Descriptions

and cultures in East, South, and West Asia. Students enrolling in the 3xxx-level course will be expected to do extra work.

Hist 3401 Survey of Latin American History: Colonial Period to 1800 (1006)

9 assignments—1 exam—\$344—4 degree credits—text price \$64—supplement \$10—video rental \$50 (\$25 refund)—Lane

new video

Pre-Hispanic and colonial period to 1800, with emphasis on social, cultural, and economic aspects. Settlement of the Americas by Europeans and Africans. Exploitation of the Americas. Responses of dominated people in the Americas.

Hist 3402 Survey of Latin American History: 1800–1929 (2699)

4 assignments—2 exams—\$344 (plus text)—4 degree credits—Díaz/González

new

Covers the period from independence to the early 20th century and examines the formation of the nation-states that emerged from the disintegration of the Spanish and Portuguese empires in the Americas. Topics: the difficulty in reestablishing the legitimacy of authority enjoyed by Spain and Portugal before independence; the transformation from a corporatist society to one based on liberalism; and the social impact of African slavery and its abolition on Latin American societies. **This course is now in preparation; please inquire before enrolling.**

Hist 3403 Survey of Latin American History: 1929 to Present (4751)

5 assignments—3 exams—\$344 (plus texts and supplement)—4 degree credits—González

new video

Provides students with an understanding of 20th-century Latin American social, economic, and political history focusing on the struggles staged by the popular classes. Particular attention paid to the activities of peasants and workers as well as to the movements for national liberation and civil rights.

Hist 3700 Topics in European History: Columbus and the Age of Encounter (4758)

12 assignments—no exams—\$344—4 degree credits—text price \$58—study guide \$10—Phillips and Phillips/Quirin

This course places the familiar figure of Columbus in the context of the world of the late 15th century. Readings examine Europe and the rest of the known world, the New World of the Western Hemisphere, the motives and means through which Europeans expanded their interests around the globe, and the far-reaching consequences of Columbus's voyages.

Hist 3700 Topics in European History: The Life and Times of Peter the Great (4787)

6 assignments—no exams—\$344—4 degree credits—text price \$28—study guide \$10—Noonan

A study of tsar Peter the Great and his impact on both his country and Europe as a whole. In looking at Peter's 43-year reign, two major themes are explored—his efforts to westernize Russia and his constant wars against his neighbors, especially Sweden. Topics: early years; various wars, battles, and peace treaties; and the reforms he introduced into Russian life.

Hist 3700 Topics in European History: Sweden, 1560–1721: Experiment in Empire (4809)

3 assignments—no exams—\$344—4 degree credits—text price \$50—study guide \$10—Metcalf

e-mail

Study of the formation and dismantling of Sweden's Baltic empire between 1560 and 1721. Highlights the administrative, economic, demographic, and social foundations of the experience, and the politics and diplomacy of the period. Students work with primary sources in translation and several scholarly texts. **See the *Technology-Enhanced Courses* section.**

Hist 3812 Civil War and Reconstruction (4755)

6 assignments—no exams—\$344—4 degree credits—text price \$55—video rental \$50 (\$25 refund)—Woodard

video e-mail

Integrates scholarly readings with the award-winning PBS video series, *The Civil War*. The course covers politics and society from 1848 to 1877. Topics: sectional differences and the causes of the war; the military aspects of the

You can register
by phone, fax,
mail, or in person.

conflict; slavery, emancipation, and how the slaves helped transform the war into a revolutionary struggle; and Reconstruction politics. See the *Technology-Enhanced Courses* section.

Hist 3822 The United States in the 20th Century: 1932–1960 (V473)

10 assignments—2 exams—\$344 (plus texts)—4 degree credits—study guide \$10—video rental \$50 (\$25 refund)—Berman/Woodard

video e-mail

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; labor relations. Includes a videocassette documentary narrated by Berman. See the *Technology-Enhanced Courses* section.

Hist 3841 American Business History (V476)

3 assignments—2 exams—\$344 (plus texts)—4 degree credits—study guide \$10—supplement \$10—video rental \$50 (\$25 refund)—Green

video

Exploration of the role of business leaders such as James J. Hill, Carnegie, Rockefeller, Morgan, and Ford; the development of business institutions; and the interaction of business with economic developments, social values, and government economic policies.

Hist 3871 American Indian History I: Pre-Contact to 1830 (4826)

3 assignments—1 exam—\$344—4 degree credits—text price \$65—supplement \$10—Rayson

new

See AmIn 3111. Students may receive credit for either AmIn 3111 or Hist 3871, **not both**.

Hist 3872 American Indian History II: 1830 to the Present (4828)

4 assignments—1 exam—\$344 (plus texts)—4 degree credits—Rayson

new

See AmIn 3112. Students may receive credit for AmIn 3112 or Hist 3872, **not both**. **This**

course is now in preparation; please inquire before enrolling.

Hist 3881 History of American Foreign Relations, 1760–1865 (4770)

12 assignments—2 exams—\$344—4 degree credits—text price \$65—Hoogland/Woodard

e-mail

Foreign policy and diplomacy during the period of independence and territorial expansion. Topics: diplomacy of the American Revolution, the War of 1812, the Monroe Doctrine and territorial expansion, American commercial expansion, foreign relations with American Indians, the Mexican War, and the diplomacy of sectionalism and the Civil War. See the *Technology-Enhanced Courses* section.

Hist 3882 History of American Foreign Relations, 1865–1945 (4771)

10 assignments—2 exams—\$344 (plus texts)—4 degree credits—Steuer

new

An examination of American foreign policy and diplomacy from the end of the Civil War to the end of World War II. Topics: American economic expansion and imperialism of the late 19th century; the Spanish-American War; the Open Door and China; Theodore Roosevelt, the Big Stick, and the Panama Canal; American entry into World War I; isolationism; the United Nations; and World War II. **This course is now in preparation; please inquire before enrolling.**

Hist 3883 History of American Foreign Relations, 1945–1995 (4708)

6 assignments—no exams—\$344—4 degree credits—text price \$65—Woodard

e-mail

American foreign relations from the end of World War II to the most recent international affairs. Examines the cold war and the changes that have recently taken place with the end of that ideological conflict. Primary issues: the decision to drop the atomic bomb; American-Soviet relations; the Vietnam War; the Reagan years and the fall of communism, and the present concerns regarding trade and international economic issues. See the *Technology-Enhanced Courses* section.

More than 7,000 students enroll in Independent Study courses each year.

Hist 3910 Topics in American History: A Century of American Immigration: 1884-1984 (4756)

3 assignments—no exams—\$344—4 degree credits—text price \$49—Lintelman and Vecoli/Kirchmann

History of a century of American immigration. Considers migration patterns, ethnic communities and conflict, maintenance of ethnic cultures, immigration legislation, social mobility, and the emergence of a pluralistic America. Students will compare immigrant experiences in both urban and rural settings.

Hist 5331 American Constitutional History I (4804)

2 assignments—1 exam—\$344—4 degree credits—text price \$47—Murphy/Carroll

e-mail

The origins and developments of constitutional government in America with emphasis on the role of constitutional politics in the evolution of public policy. This course focuses on the English and colonial background through the Reconstruction period. See the *Technology-Enhanced Courses* section.

Hist 5332 American Constitutional History II (4805)

2 assignments—1 exam—\$344—4 degree credits—text price \$57—optional video rental \$50 (\$25 refund)—Murphy/Carroll

e-mail

video

Continuation of Hist 5331, but need not be taken in sequence. Emphasizes the Constitution and the rule of law in modern America. Includes an optional videocassette with discussions of the Constitution by eminent judges and scholars. Students must indicate whether they want to take the course with or without the optional videocassette. See the *Technology-Enhanced Courses* section.

Horticultural Science

Agricultural, Food, and Environmental Sciences

C. Gustav Hard, Ph.D., Professor Emeritus, Horticultural Science and Landscape Architecture

Hort 1010 Home Horticulture: Landscape Gardening and Design (A515)

14 assignments—no exams—\$318—4 degree credits—text price \$45—study guide \$10—10 audiocassettes \$30.75—Hard

audio

Working knowledge of propagation and culture of common landscape materials: turf, flowers, trees, and shrubs. Principles and practices of gardening. Prepared for beginners but also valuable for advanced or experienced gardeners. Text assignments and home projects with plants for the garden are required. Topics: planting, transplanting, seeds, soils, fertilizers, preparing beds and planting areas, selecting a good garden site, controlling garden pests, weeding, watering, cultivating, vegetable gardening, and landscape maintenance. Discusses annuals, perennials, bulbs, and roses for northern gardens. The final project provides the fundamentals for home landscape design.

Humanities

College of Liberal Arts

George Bisztray, Ph.D., Professor, Slavic Languages and Literatures, University of Toronto

Dallas Ouren, Ph.D., Humanities, Continuing Education and Extension/University College

Hum 1001/3001 Humanities in the Modern West I (5205/5206)

14 assignments—no exams—\$318/\$344—4 degree credits—text price \$67—Ouren

Exploration of 18th-century Enlightenment and Romanticism. The main themes are reason, human nature, and the problem of evil. Authors discussed include Marlowe, Pope, Voltaire, Rousseau, and Goethe.

Hum 1002 Humanities in the Modern West II (5202)

15 assignments—2 exams—\$318—4 degree credits—text price \$45—Bisztray/Ouren

Industrial Revolution, Romanticism, socialism, individualism. Selected documents of economic and socialist theory and the Romantic movement; representative works by Zola, Ibsen, Dostoevsky, Tolstoy.

High school courses are listed on pages 100-104.

Hum 1003 Humanities in the Modern West III (5207)

15 assignments—no exams—\$318—4 degree credits—text price \$54—Ouren

Focuses on the late 19th century. Topics: evolution (Darwinism) and the beginnings of existentialism. Authors include Kierkegaard, Nietzsche, Turgenev, Thomas Mann, and Chekhov.

Hum 1111/3111 European Heritage: Greece (5209/5211)

15 assignments—no exams—\$318/\$344—4 degree credits—text price \$64—Ouren

Greek culture and Greece as the birthplace of reason. The course traces the development of Greek thought and literature from the Homeric epic, through Greek tragedy and comedy, to the dialogues of Plato.

Hum 1113/3113 European Heritage: Rome (5210/5212)

14 assignments—no exams—\$318/\$344—4 degree credits—text price \$64—Ouren

This course deals with the major texts of Roman culture and the early development of Christianity. Reading assignments include works by Plutarch, Virgil, the Stoics, Lucretius, St. Augustine, and the New Testament.

Industrial Relations**Carlson School of Management**

Note: Students taking Carlson School of Management upper division undergraduate courses through CEE are expected to have completed the equivalent of 90 quarter college credits with a minimum of a B- grade average.

Kenneth Gagala, Ph.D., Director of Labor and Urban Affairs, Labor Education Services

IR 3000 Topics in Industrial Relations: Teaching Labor Relations in the Schools (2250)

10 assignments—no exams—\$374—4 degree credits—text price \$31—Gagala

This course enables elementary and secondary school teachers to incorporate the study of labor unions and collective bargaining into their lesson plans. Also assists teachers to discuss labor issues with their students when national and local

developments demand a response. Provides a knowledge of the labor relations process as it affects the teaching profession.

IR 3007 Collective Bargaining and Labor Relations (2262)

12 assignments—2 exams—\$374—4 degree credits—text price \$42—Gagala

An introduction to collective bargaining and labor-management relations. Examines the historical evolution of trade unions in the United States, the structure and administration of trade unions, and the processes of collective bargaining and contract administration. The coursework incorporates case exercises that provide students with insights into the real-world nature of labor-management relations. (Prerequisite: at least 90 credits completed or in progress)

Institute of Languages and Literatures**College of Liberal Arts****Chinese**

Chun-Jo Liu, Ph.D., Professor, East Asian Studies

Michael Taylor, M.A., Teaching Assistant, East Asian Studies

Chn 3165 Introduction to Chinese Literature (5507)

14 assignments—no exams—\$344—4 degree credits—text price \$27—Liu/Taylor

Survey of major Chinese literary movements from the emergence of the early Confucian canon to the 13th century. All readings are in English.

General and Applied Linguistics

Anne Loring, M.A., Teaching Assistant and Ph.D. candidate, Linguistics

Kathryn Riley, Ph.D., Professor, Composition and Linguistics Program, University of Minnesota, Duluth

George Yule, Ph.D., Associate Professor, Louisiana State University

You can earn the Liberal Arts certificate or the Science and Quantitative Methods certificate entirely through Independent Study.

See pages 108–110.

Ling 1001 The Nature of Human Language (V352)

4 assignments—1 exam—\$318—4 degree credits—text price \$21—video rental \$50 (\$25 refund)—Yule/Loring

video

A survey of the nature of human language, its properties, its possible origins, and how it differs from animal communication. Methods of describing the sounds, structures, and meanings of language are examined, along with a consideration of the relationship between language and the brain, how children acquire language, and the different roles of language in society. Whenever possible, points are illustrated with examples from the everyday use of English.

Ling 5831 Sociolinguistics (1007) (U of M Duluth)

12 assignments—3 exams—\$352—4 degree credits—text price \$26—video rental \$50 (\$25 refund)—Riley

video new

Focuses on the relationship between language and social identity: how we define ourselves and others through the use of language. Close examination of various regional, social, ethnic, and gender varieties of American English. Introduction to linguistic field methods and practical applications to teaching and testing. Credits for this Duluth course will appear on your U of M Twin Cities transcript. A-F grading only.

Russian

Gary Jahn, Ph.D., Associate Professor, Russian
Catherine Kulesov, Ph.D., Associate Professor Emeritus, Russian
Aaron Michaelson, Teaching Assistant and M.A. candidate, Russian

Note: Students are discouraged from enrolling concurrently in two language courses at the 1xxx level.

Russ 1101 Beginning Russian I (6603)

9 assignments—2 exams—\$397.50—5 degree credits—text price \$26—15 audiocassettes \$45.75—computer disks \$5—Jahn/Michaelson

audio computer

A multipurpose program of instruction in the fundamentals of the Russian language. Acquaints students with all four basic language skills: listening, reading, speaking, and writing.

Optional use of computer software in IBM or Macintosh format (call for information). See the *Technology-Enhanced Courses* section.

Russ 1102 Beginning Russian II (6604)

10 assignments—2 exams—\$397.50—5 degree credits—text price \$26—16 audiocassettes \$48.50—computer disks \$5—Jahn/Michaelson

audio computer

Continuation of Russ 1101. (Prerequisite: Russ 1101) **Optional use of computer software in IBM or Macintosh format (call for information). See the *Technology-Enhanced Courses* section.**

Russ 1103 Beginning Russian III (6605)

12 assignments—2 exams—\$397.50—5 degree credits—text price \$26—20 audiocassettes \$61—computer disks \$5—Jahn/Michaelson

audio computer

Continuation of Russ 1102. (Prerequisite: Russ 1102) **Optional use of computer software in IBM or Macintosh format (call for information). See the *Technology-Enhanced Courses* section.**

Russ 3421 Literature: Middle Ages—Dostoevsky in Translation (6650)

9 assignments—1 exam—\$344—4 degree credits—text price \$86—Jahn

e-mail

The history of Russian literature from its beginning (about A.D. 1000) to the middle of the 19th century. Covers Pushkin, Gogol, and Dostoevsky. Students read both literary works (in English) and scholarly materials (historical, biographical, critical commentary), and complete 9 five-to-eight page writing assignments. **See the *Technology-Enhanced Courses* section.**

Russ 3422 Literature: Tolstoy to the Present in Translation (6651)

12 assignments—1 exam—\$344—4 degree credits—text price \$74—Kulesov

Introductory study of literary movements represented by well-known Russian writers and their selected works from the second half of the 19th century to the Perestroika (Restructuring). Students read both literary works (in English) and scholarly material (historical, biographical,

E-mail lesson service is currently available for about 50 Independent Study courses.

critical commentary). Assignments include four interpretive essays and six optional writings about the works read.

Italian

See *French and Italian*.

Jewish Studies

College of Liberal Arts

David Cooperman, Ph.D., Professor, Sociology

JwSt 3034 Introduction to Judaism (V864)

10 assignments—2 exams—\$344 (plus texts)—4 degree credits—study guide \$10—video rental \$50 (\$25 refund)—staff

video

Concepts, movements, and institutions in the development of classical Judaism, as manifested in the literature and festivals of the Jewish people from Second Commonwealth times to the present. Also available as RelS 3034. Students may receive credit for only one of these courses: JwSt 3034 or RelS 3034.

JwSt 3126 Modern Judaism (8610)

12 assignments—2 exams—\$344—4 degree credits—text price \$52—staff

Explores the roots of modern Judaism in Eastern Europe, the immigration experience,

and the formation of American Judaism as a distinctive religious system with its major components: the rabbi, the community, Israel, religious obligations, and theology.

JwSt 3521 The Holocaust (A861)

4 assignments—no exams—\$344—4 degree credits—text price \$38—study guide \$10—10 audiocassettes \$30.75—Cooperman/staff

audio

Nazi destruction of Jewish life in Europe, 1933–1945. Historical and social background of European communities. Anti-Semitism and Nazism. Ghettos under Nazi rule; social and cultural organization and government. Nazi terror and destruction; Jewish resistance; historical consequences.

Journalism and Mass Communication

College of Liberal Arts

Journalism majors should follow requirements for pre-journalism major as shown in the *College of Liberal Arts Bulletin*.

Roy E. Carter, Jr., Ph.D., Professor Emeritus, Journalism and Sociology

Irene Clepper, Ph.D., Journalism, Continuing Education and Extension/University College

Irving Fang, Ph.D., Professor, Journalism and Mass Communication

Aaron Franklin is a student who completed Mus 5207, Twentieth-Century American Music, through Independent Study. A Minneapolis teacher, trumpet player, and songwriter, Franklin said his experience as a songwriter mirrors that of many Independent Study students. "Sometimes I can write a song after work. Sometimes at 2:30 in the morning." The Grambling State (Louisiana) graduate says he was "burned out in classes, sitting and listening to a lecture. So I decided to do it at my own pace. I could go to the library when I wanted to, when I knew I could be the most productive." He says he learned a lot in Mus 5207, including how features of African-American music have influenced other music rhythmically and harmonically. "I wish I had had more opportunities to have taken these courses," says Franklin, who thought his experience in Mus 5207 was "great."



Paul Froiland, M.A., Lecturer, Continuing Education and Extension/University College
Nancy L. Roberts, Ph.D., Associate Professor, Journalism and Mass Communication

Jour 1001 Introduction to Mass Communications (3703)

7 assignments—no exams—\$318(plus texts)—4 degree credits—Fang

audio new

A survey of the means of delivering information, opinion, and entertainment. Historical roots, current structures, principal issues in modern mass media. A-F grading only.

Jour 3007 The Media in American History and Law: Case Studies (2698)

12 assignments—1 exam—\$344 (plus texts)—4 degree credits—Roberts

audio new

Using a case-study approach, this course focuses on ethical and legal issues, examining the media in the cultural-socioeconomic-political-technological context of a specific historical period: the Vietnam War. A-F grading only. **This course is now in preparation; please inquire before enrolling.**

Jour 3173 Magazine Writing (3774)

20 assignments—no exams—\$344—4 degree credits—text price \$42—5 audiocassettes \$17—Roberts/Froiland

audio

Writing nonfiction feature articles for adult consumer and trade publications is covered, as is a study of marketing one's free-lance writing, including the construction and submission of query letters. Students write, revise, and submit three articles to magazines or newspaper feature sections of their choice. A-F grading only. (Not to be taken by students who have achieved major status.)

Jour 5501 Communication and Public Opinion I (3792)

12 assignments—2 exams—\$344—4 degree credits—text price \$58—Carter

Theories of mass communication, models of the communication process, and research on public opinion and persuasion. The course also

explains in nontechnical terms some of the methods used in the scientific study of the mass media and of public opinion, including polling. A-F grading only.

Jour 5601 History of Journalism (3791)

13 assignments—2 exams—\$344—4 degree credits—text price \$73—Clepper

From scratches in wet clay to messages bounced by satellite, communication has a fascinating history. This course covers First Amendment rights, press credibility and governments seeking cover from "sunshine" laws, muckraking, infomationals, and advertorials, fictionalized documentaries, video newspapers, 500 cable choices, and other influences that keep reshaping journalism and the events and trends it records. Attention is given to improving writing skills and identifying job opportunities. A-F grading only.

Jour 5606 Literary Aspects of Journalism (3794)

11 assignments—1 exam—\$344—4 degree credits—text price \$63—6 audiocassettes \$19.75—Roberts

audio

A study of the literary aspects of journalism as exemplified in, and influenced by, works of English and U.S. writers, past and present—John Hersey, Lillian Ross, Joan Didion, Truman Capote, Tom Wolfe, and others. Explores the relationship between journalism and literature and how this relationship has figured in the development of U.S. journalism. Written assignments focus on analysis of readings; also, students may opt to write a piece of their own literary journalism. A-F grading only.

Latin

See *Classical and Near Eastern Studies*.

Law

See *Business Law*.

Linguistics

See *Institute of Languages and Literatures, General and Applied Linguistics*.

"In Irene Clepper (Jour 5601) you have a patient, understanding, and very helpful instructor,"
Walter H. Hartig,
Oklahoma City.

Management

Carlson School of Management

Also see *Business Studies*.

Note: Students taking Carlson School of Management upper division undergraduate courses through CEE/UC are expected to have completed the equivalent of 90 quarter college credits with a minimum of a B- grade average.

Stuart Albert, Ph.D., Associate Professor, Strategic Management and Organization
James Detert, B.B.A., Graduate School Fellow, Strategic Management and Organization
Mark Weber, Ph.D., J.D., Assistant Professor, Management, Hamline University
Akbar Zaheer, Ph.D., Assistant Professor, Strategic Management and Organization

Mgmt 3001 Fundamentals of Management (2280)

14 assignments—2 exams—\$374—4 degree credits—text price \$62—Weber

e-mail

Leadership and management functions such as those required to establish goals, policies, procedures, and plans. Motivation, planning, and control systems, and concepts of organizational structure and behavior. A-F grading only. (Prerequisite: 90 credits completed or in progress)

Mgmt 3002 Psychology of Management (2282)

10 assignments—1 exam—\$374 (plus texts)—4 degree credits—Albert

Development and application of behavior principles, methods, and skills that underlie managerial competencies in preventing and solving problems within and between individuals and groups, and aid in effective use of human resources. Projects and procedures are used to highlight concepts, methods, and skills, and give practice in applying them to management problems. Must be taken A-F. **This course is now in preparation; please inquire before enrolling.**

Mgmt 3004 Business Policy: Strategy Formulation and Implementation (GIS version, G101)

5 assignments—1 exam—\$467.50—5 degree credits—text price \$57—Detert/Zaheer

new group

Focuses on how companies develop business-level and corporate strategies and implement and

revise these strategies in complex environments. Students apply the tools and techniques of industry and competitive analysis, company situation analysis, and diversification analysis to 20 business cases. Video interviews with managers and others from the cases emphasize the “real-world” nature of the course material. Individual case write-ups allow students to combine their creativity and analytic skills in well-thought-out strategy recommendations. This combination of group learning, individual assignments, and multiple technologies offers students the benefits of day school while maintaining the flexibility of Independent Study. Students attend six evening interactive TV classes on either the Twin Cities or Crookston campus on Nov. 2, Nov. 30, Dec. 14, Jan. 18, Feb. 1, and Mar. 14. Students are encouraged to complete the course in six months. A-F grading only. To register for this Group Independent Study course, use the registration form in this bulletin and check YES next to the question concerning GIS. (Prerequisite: senior status, completion of business core courses, or permission of instructor) **Register Aug. 14–Sept. 29. For more information, see the *Technology-Enhanced Courses* section.**

Mgmt 3008 Entrepreneurship and the Smaller Enterprise (2285)

13 assignments—no exams—\$374—4 degree credits—text price \$58—Weber

e-mail

Assessment of opportunities and constraints in establishing and managing one’s own firm; structuring a new venture, buying into an existing enterprise, owning an enterprise versus becoming a principal employee in a new venture. Case method. Designed to accommodate both undergraduate students who want course credit and nondegree-seeking entrepreneurs who want information/planning guidelines to help them start and manage their own small business. (Prerequisite: completion of business core courses or instructor permission) **See the *Technology-Enhanced Courses* section.**

Marketing

Carlson School of Management

Also see *Business Studies*.

Note: Students taking Carlson School of Management upper division undergraduate courses

Akbar Zaheer, who wrote Mgmt 3004, was named the “MBA Teacher of the Year” for 1995.

Course Descriptions

through CEE/UC are expected to have completed the equivalent of 90 quarter college credits with a minimum of a B- grade average.

Linda Rochford, Ph.D., Assistant Professor of Marketing, Management Studies, University of Minnesota, Duluth

Mktg 3000 Principles of Marketing (2524)

9 assignments—1 exam—\$374—4 degree credits—text price \$57—Rochford

new video

Focuses on marketing as a process of managing exchanges. Students learn the environmental factors that impact the strategic marketing process and explore interrelationships between strategic and tactical marketing issues concerning product/service, price, promotion, and distribution decisions. A-F grading only. **This course is now in preparation; please inquire before enrolling.**

Mathematics

Institute of Technology and General College

David L. Giese, Ph.D., Professor, General College

Shamlall Gupta, Ph.D., Lecturer, Continuing Education and Extension/University College

Laura L. Koch, Ph.D., Associate Professor, General College

Thomas Ressler, Ph.D., Professor, Graduate Program—Management, University of St. Thomas
Douglas Robertson, Ph.D., Professor, General College

V. C. Varadachari, Ph.D., Mathematics, Lakewood Community College

Note: It is essential that students have the prerequisite knowledge for each course, as well as credit for the courses listed as prerequisites. If there has been a time lapse since their previous course in mathematics, students should review thoroughly or repeat the prerequisite. It is impossible to make progress in mathematics without a sound knowledge of previous concepts and applications.

In addition to the following noncredit courses in mathematics, certain courses available through the High School Program also fulfill entrance require-

ments of the Institute of Technology and other colleges. For Independent Study courses in high school mathematics, see the *High School Program* section. For help deciding which course to take, contact a CEE adviser (612-625-2500).

GC 0611 Introduction to Basic Mathematics (7214)

13 assignments—2 exams—\$318—no credit—text price \$53—Koch

In-depth review of mathematics from whole numbers to geometry. Emphasizes computation and understanding basic concepts. Ideal for students who plan to continue with elementary algebra.

GC 0621 Elementary Algebra (7227)

9 assignments—3 exams—\$318—no credit—text price \$51—Robertson

For students with a strong arithmetic background ready to study elementary algebra. Topics: signed numbers, algebraic expressions, equations, inequalities, rational expressions, exponents, polynomials, factoring, graphing, 2x2 systems, radical expressions, and word problems from these areas. Prepares students for GC 0625, Intermediate Algebra, Part I. (Prerequisite: knowledge of arithmetic or GC 0611 or GC 0615 or Math 0005)

GC 0623 Plane Geometry: Programmed Study (1304)

\$318 (plus texts)—no credit—Koch

new

Elements of plane geometry with some geometry of solids. Equivalent to one year of high school plane geometry. (Prerequisite: GC math placement score or elementary algebra) **This course is now in preparation; please inquire before enrolling.**

GC 0625 Intermediate Algebra, Part I (7219)

13 assignments—3 exams—\$397.50 (plus text and supplement)—no credit—Giese

For students needing additional preparation in algebra before Intermediate Algebra, Part II. Sets, real numbers, linear equalities, linear inequalities, absolute values, polynomials, rational expressions, exponents, roots, systems

You can use course audiocassettes or videocassettes at the Learning Resources Center, 15 Walter Library, Minneapolis campus.

of equations, word problems. (Prerequisite: GC 0621 or Math 0006)

GC 0631 Intermediate Algebra, Part II (7205)

14 assignments—3 exams—\$397.50—no credit—text price \$53—Giese

Assumes basic knowledge of linear and quadratic equations and inequalities, exponents, factoring, rational expressions, roots, radicals, complex numbers, and graphing. Topics: quadratic equations, matrix solutions, general inequalities, conic sections, functions, logarithmic and exponential functions, introduction to sequences, series, and binomial theorem. (Prerequisite: GC 0625 with a grade of C or better)

Math 1008 Trigonometry (7218)

12 assignments—2 exams—\$318—4 degree credits—text price \$50—calculator \$11—Varadachari

Analytic trigonometry, identities, equations, properties of functions; right and oblique triangles without logarithmic computations. Calculator with trig and inverse trig functions necessary. (Prerequisite: plane geometry, higher algebra, mathematics placement score)

Math 1111 College Algebra and Analytic Geometry (7217)

18 assignments—3 exams—\$397.50—5 degree credits—text price \$54—Ressler

Functions, graphs, quadratic equations, inequalities, complex numbers, theory of equations, permutations and combinations, probability, systems of equations, graphing linear and quadratic equations, conic and standard position, logarithms. May be substituted for Math 1031. (Prerequisite: plane geometry, two years high school algebra and mathematics placement score, or plane geometry and GC 0631)

Math 1142 Short Calculus (7240)

16 assignments—3 exams—\$397.50—5 degree credits—text price \$43—Varadachari

For students in pre-business administration, pre-pharmacy, and others requiring a minimal amount of calculus; students who plan to take several quarters of mathematics should register

for Math 1251-1252. (Prerequisite: Math 1111 or 1031 or mathematics placement score)

Math 1201 Precalculus (7202)

16 assignments—4 exams—\$397.50—5 degree credits—text price \$60—Gupta

Inequalities; analytical geometry; complex numbers; binomial theorem; mathematical induction; functions and graphs; trigonometric, exponential, logarithmic functions. Intended for students who need to review higher algebra and trigonometry before taking a calculus sequence. May be substituted for Math 1051-1151. (Prerequisite: GC 0631 or high school higher algebra, trigonometry, and mathematics placement score)

Math 1211 Calculus I (7224)

16 assignments—3 exams—\$397.50—5 degree credits—text price \$55—Varadachari

Analytical geometry and calculus of functions of one variable. (Prerequisite: Math 1201 with a grade of C or better, or Math 1008 and 1111 with grades of C or better, or four years of high school math and math placement score)

Math 1211 Calculus I (V722)

10 assignments—2 exams—\$397.50—5 degree credits—text price \$55—study guide \$10—video rental \$50 (\$25 refund)—Varadachari

video

Analytical geometry and calculus of functions of one variable, applications. (Prerequisite: Math 1201 with a grade of C or better or Math 1111 and 1008 with grades of C or better, or 4 years high school math and math placement score)

Math 1251 One-Variable Differential and Integral Calculus I (7228)

16 assignments—3 exams—\$318—4 degree credits—text price \$62—Varadachari

Calculus of functions of one variable and related geometry and applications. (Prerequisite: four years of high school math, including trigonometry, or a grade of C or better in Math 1201 or 1008 and 1111, or equivalent)

“Calculus I taught me a lot about this subject and I think it prepared me for the rest of college,” student evaluation, Math 1251.

Math 1252 One-Variable Differential and Integral Calculus II (7229)

16 assignments—3 exams—\$318—4 degree credits—text price \$62—Varadachari

Calculus of functions of one variable and related geometry and applications. (Prerequisite: Math 1251 with a grade of C or better)

Math 1261 Calculus III (7241)

9 assignments—2 exams—\$318—4 degree credits—text price \$67—Varadachari

new

Vectors, matrices, linear algebraic equations, Gaussian elimination, determinants and their applications, linear transformations, subspaces, quadratic forms, rigid motions, and orthogonal matrices. Students may receive credit for only one of these courses: Math 1241, Math 1261, Math 3142, or Math 3211. (Prerequisite: Math 1252, 1353, or equivalent) **This course is now in preparation; please inquire before enrolling.**

Math 3066 Elementary Differential Equations (7296)

16 assignments—3 exams—\$374—4 degree credits—text price \$45—Varadachari

Equations of first order, applications; linear equations with constant coefficients, Laplace transforms, simultaneous equations, and series solutions. May be substituted for Math 3261. (Prerequisite: Math 1252, or equivalent, with a grade of C or better)

Math 3221 Introduction to Linear Algebra and Linear Differential Equations (7236)

16 assignments—3 exams—\$467.50—5 degree credits—text price \$50—Varadachari

Vectors, systems of linear equations, matrices, determinants, bases, eigenvalues. Linear differential equations and systems with constant coefficients, initial value problem and general solution, variation of parameters for inhomogeneous equations, applications. Abridged version of Math 1261-3261. (Prerequisite: Math 1252, or equivalent, with grade of C or better)

Math 3251 Multivariable Differential Calculus (1100)

9 assignments—2 exams—\$374 (plus texts)—4 degree credits—Varadachari

new

Differentiation of parametric curves. Partial differentiation and the derivative as a local linear approximation. The chain rule. Applications to max/min problems with attention to boundaries and constraints include Lagrange multipliers. Taylor's theorem (multivariable) and the second derivative test. Students may receive credit for only one of these courses: Math 3211, Math 3251, Math 3311, Math 3521H, or Math 3552H. (Prerequisite: Math 1261) **This course is now in preparation; please inquire before enrolling.**

Math 3252 Multivariable Integral Calculus (7242)

9 assignments—2 exams—\$374 (plus texts)—4 degree credits—Varadachari

new

Double and triple integrals; change of variable procedures emphasizing polar and spherical coordinates; mass and centroid; integration on curves and surfaces; vectors fields and the theorems of Green, Gauss, and Stokes. (Prerequisite: Math 3251 or equivalent) **This course is now in preparation; please inquire before enrolling.**

Medical Terminology

See *Classical and Near Eastern Studies, Classics.*

Music

College of Liberal Arts

David Damschroder, Ph.D., Associate Professor, School of Music
Alex Lubet, Ph.D., Associate Professor, School of Music
Johannes Riedel, Ph.D., Professor Emeritus, School of Music
Janika Vandervelde, Ph.D., Instructor, School of Music

Internetting for Biologists and Others, FScN 5111, is completely online.

Mus 1001 Fundamentals of Music (7313)

13 assignments—2 exams—\$318—4 degree credits—text price \$35—1 audiocassette \$3.50—Damschroder

audio

Explores topics in musical pitch and rhythm, as well as skills such as singing, playing the piano, clapping rhythms, and discriminative listening. Recommended for students who have an avocational interest in music or who will use basic music skills in their careers.

Mus 1002 Fundamentals of Music II (7312)

11 assignments—2 exams—\$318 (plus texts and audiocassettes)—4 degree credits—Vandervelde

audio

Basic procedures for harmonizing melodies, including chord construction and succession, voice-leading, and stylistic considerations. Development of basic listening and sight-singing skills. Rigorous review of music fundamentals. (Prerequisite: Mus 1001 or ability to read music in the treble and bass clefs and a thorough knowledge of intervals, scales, and chord qualities)

Mus 3045 The Avant-Garde (7314)

8 assignments—\$344 (plus texts and audiocassettes)—4 degree credits—Lubet

audio

You do not need to read music or have any prior experience in music to enjoy this stimulating introduction to recent music. The course centers on composers of the American musical avant-garde, ca. 1950–1970, including John Cage and Pauline Oliveros, in their sonic and social contexts. Attention is given to the recent impact on music from non-Western culture. Assignments—which include reading, listening, journal writing, original composition, and performance—are designed to be achievable by people with no prior musical training. A-F grading only.

Mus 5702 American Music: Twentieth-Century American Music (A731)

6 assignments—1 exam—\$344—4 degree credits—text price \$37—study guide \$10—10 audiocassettes \$30.75—Riedel

audio e-mail

Analysis of American music during this century: folk, popular and classical, black and Chicano, opera and symphony, contemporary. Background knowledge of musical terms necessary. See the *Technology-Enhanced Courses* section.

Norwegian

See *German, Scandinavian, and Dutch*.

Nursing**School of Nursing**

Kären Alaniz, Ph.D., Assistant Professor, School of Nursing
Joan A. Davis, M.A., School of Nursing
Sara DeHart, Ph.D., Associate Professor, School of Nursing

Nurs 3690/5690 Life Span Growth and Development I (8412/8413)

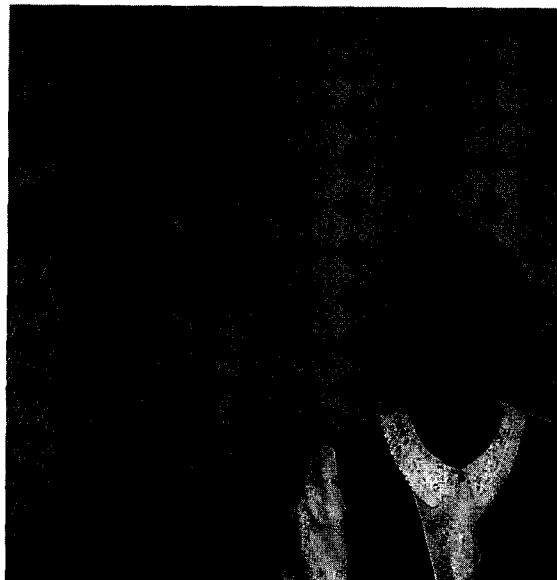
5 assignments—1 exam—\$187—2 degree credits—text price \$66—8 audiocassettes \$25—study guide \$10—video rental \$50 (\$25 refund)—Alaniz and DeHart/Davis

audio video

Introductory course that incorporates biological, sociological, and psychological perspectives of human life span development from conception through adolescence. Nurs 3690/5690 and Nurs 3691/5691 may be taken concurrently. (Prerequisite: general psychology and general biology)

Audio-assisted
courses are marked
with this icon:

audio



If you need counseling or advising before or after you enroll in an Independent Study course, there are professionals who can help you. Darryl Sedio, director of Advanced High School Student Services, will be glad to help with questions about enrolling in college courses before you graduate from high school. Teresa Fruen is one of the academic advisers at CEE Counseling who can give you advice about using Independent Study courses in degree or certificate programs, about what financial aid is available, or about planning an educational program.

Nurs 3691/5691 Life Span Growth and Development II (8414/8415)

5 assignments—1 exam—\$187—2 degree credits—text price \$66—5 audiocassettes \$17—study guide \$10—video rental \$50 (\$25 refund)—Alaniz and DeHart/Davis

audio

video

Introductory course that incorporates biological, sociological, and psychological perspectives of human life span development from young adulthood through aging and the death experience. Nurs 3690/5690 and Nurs 3691/5691 may be taken concurrently. (Prerequisite: general psychology and general biology, Nurs 3690/5690 or equivalent, or consent of instructor)

Philosophy

College of Liberal Arts and General College

Joseph Bessie, Ph.D., Philosophy
Daniel Flory, M.A., Teaching Assistant and Ph.D. candidate, Rhetoric
Sandra Peterson, Ph.D., Associate Professor, Philosophy
Candido P. Zanoni, Ph.D., Professor, General College

Phil 1001 Introduction to Logic (7608)

13 assignments—3 exams—\$397.50—5 degree credits—text price \$46—Zanoni

Rules and procedures of sound argument and valid inference. Relationship of formal patterns of

reasoning to such uses of ordinary language as argument, propaganda, and persuasion. How formal logic can be employed as a tool for critical thinking.

Phil 1002 Introduction to Philosophy (7600)

15 assignments—2 exams—\$397.50—5 degree credits—text price \$37—Bessie/Flory

e-mail

For much of its history, Western philosophy has been largely a matter of attempting to provide an unshakable foundation for either morals or the natural sciences. Most Western philosophers have spent their intellectual careers trying to define what knowledge and certainty are for the benefit of these two areas of knowledge. Course traces the history of that endeavor by looking at philosophers who are usually cited as pillars of the Western theory of knowledge and metaphysics: Plato, Descartes, Hume, Kant, Wittgenstein, and Kuhn. **See the *Technology-Enhanced Courses* section.**

Phil 1003 Introduction to Ethics (1009)

5 assignments—no exams—\$397.50—5 degree credits—text price \$43—Peterson

Three classic philosophical theories, by Aristotle, Immanuel Kant, and John Stuart Mill, of how to live and how to do the right thing on any occasion. Application of the three theories to actions of characters in the novel *Middlemarch*, by George Eliot, and to actions of Native American characters in the novel *The Surrounded*, by D'Arcy McNickle, exploring

any difficulties in applying the theories to cultures different from the ones the theories' authors were familiar with.

GC 1355 Philosophy: Problems of Ethics (7606)

14 assignments—2 exams—\$318—4 degree credits—text price \$30—Zanoni

The course aims at providing the student with an understanding of the development of moral thought in Western civilization and the problems generated by changing views about the nature of human beings and their behavior. The emphasis of the course is on showing how thinking clearly about the various factors in the development of moral thought in the West is relevant to contemporary moral practice.

Physics

Institute of Technology

Robert L. Cassola, Ph.D., Lecturer, Physics
Roger S. Jones, Ph.D., Associate Professor, Physics

Phys 1001 The Physical World (7713)

22 assignments—3 exams—\$318—4 degree credits—text price \$70—Cassola

Fundamental laws and principles of the physical world discussed in the context of modern science and technology. Topics: motion of particles, laws of motion, momentum and energy conservation, gravity, fluids, temperature, heat, wave motion, the nature of light, optics, electricity, magnetism. No credit for IT students. (Prerequisite: one year high school algebra)

Phys 1003 The Changing Physical World (V773)

no assignments—4 exams—\$318 (plus texts)—4 degree credits—study guide \$10—video rental \$50 (\$25 refund)—Jones

video e-mail

Introduces nonscience students to the changing world of 20th-century physics. Against a background of history and philosophy, it highlights the new ideas and discoveries of relativity, cosmology, and quantum theory as seen on the vast scale of stars and galaxies, in the everyday realm of matter and energy, and down to the submicroscopic level of atoms and nuclei. See the *Technology-Enhanced Courses* section.

Phys 1041 Introductory Physics I (7741)

18 assignments—3 exams—\$318—4 degree credits—text price \$65—Cassola

Primarily for students interested in a general, non-calculus physics course, but also for CLA distribution requirements. Topics: uniformly accelerated motion, Newton's laws of motion, work, energy, motion of rigid bodies, mechanical properties of matter, temperature, gas law, thermal properties of matter, thermodynamics, vibratory motion, wave motion, and sound. Replaces old Phys 1032. Students who have completed Phys 1031 should take Phys 1041 to complete the series. (Prerequisite: high school algebra, geometry, and trigonometry; **concurrent registration in Phys 1045 is required**)

Phys 1042 Introductory Physics II (7742)

16 assignments—3 exams—\$318—4 degree credits—text price \$65—Cassola

Topics: electric fields, direct current circuits, magnetism, electromagnetic induction, alternating currents, electromagnetic waves, properties of light, optical devices, interference, diffraction, atomic structure, the atomic nucleus, and physics of the universe. Replaces old Phys 1031. (Prerequisite: Phys 1041 or equivalent; **concurrent registration in Phys 1046 is required**)

Phys 1045 Introductory Physics Laboratory I (7718)

8 assignments—no exams—\$79.50—1 degree credit—lab book \$5—Cassola

Laboratory experiments offered in conjunction with Phys 1041. Experiments: graphical analysis of data, geometry of motion, gravitational field, energy, power, sound waves. S-N grading only. (Prerequisite: Phys 1041 or equivalent, or concurrent registration)

Phys 1046 Introductory Physics Laboratory II (7720)

6 assignments—no exams—\$79.50 (plus materials)—1 degree credit—Cassola

Laboratory experiments offered in conjunction with Phys 1042. Experiments: probability and statistics, direct current circuits, magnetic fields, optics, diffraction. S-N grading only. (Prerequisite: Phys 1042 or equivalent, or concurrent registration)

"Introductory Physics I helped me to look at things more analytically, take them apart into their basic components and work my way up," student evaluation, Phys 1041.

Phys 1104 General Physics (7733)

16 assignments—3 exams—\$318—4 degree credits—text price \$77—Cassola

Primarily for premedical and biological science students. Topics: motion, Newton's laws, work and energy, momentum and the pressure of gases, mechanical properties of matter, temperature, thermal properties of matter, thermodynamics, sound, entropy. No credit for IT students. (Prerequisite: Math 1142 and high school trigonometry or Math 1008)

Phys 1105 General Physics (7734)

15 assignments—3 exams—\$318—4 degree credits—text price \$77—Cassola

Second course in the series. Topics: fluid statics, fluid dynamics, elastic properties of solids, vibration, traveling, standing, and sound waves, reflection and refraction of light, optical instruments, interference, electric fields, and electrical energy. No credit for IT students. (Prerequisite: Phys 1104)

Phys 1106 General Physics (7735)

14 assignments—3 exams—\$318—4 degree credits—text price \$77—Cassola

Third course in the series. Topics: direct-current circuits, capacitors, magnetic fields and forces, alternating-current circuits, special relativity, wave-particle duality, Bohr model of the atom, quantum mechanics, nuclear physics, and elementary particle physics. No credit for IT students. (Prerequisite: Phys 1105)

Phys 1311 Comprehensive Introductory Physics with Calculus I (7743)

15 assignments—3 exams—\$318—4 degree credits—text price \$63—Cassola

Calculus-level general physics stressing the use of fundamental principles. Topics: vectors, kinematics in two and three dimensions, particle dynamics, work, energy, collisions, and gravitation. This course does **not** include a lab, and the physics department does not offer a separate lab. (Prerequisite: completion or concurrent registration in introductory calculus)

Phys 1321 Comprehensive Introductory Physics with Calculus II (7744)

15 assignments—3 exams—\$318—4 degree credits—text price \$63—Cassola

Calculus-level general physics stressing the use

of fundamental principles. Topics: rigid-body kinematics and dynamics, statics, elasticity, oscillations, mechanical waves, sound, fluid statics and dynamics, heat and thermodynamics. This course does **not** include a lab, and the physics department does not offer a separate lab. (Prerequisite: Phys 1311 or equivalent)

Phys 1331 Comprehensive Introductory Physics with Calculus III (7745)

15 assignments—3 exams—\$318—4 degree credits—text price \$63—Cassola

Calculus-level general physics stressing the use of fundamental principles. Topics: the electric field, electric potential, capacitors, dielectrics, DC circuits, magnetic fields, induction, magnetic materials, and AC circuits. This course does **not** include a lab, and the physics department does not offer a separate lab. (Prerequisite: Phys 1321 or equivalent)

Phys 1341 Comprehensive Introductory Physics with Calculus IV (7746)

14 assignments—3 exams—\$318—4 degree credits—text price \$63—Cassola

Calculus-level general physics stressing the use of fundamental principles. Topics: Maxwell's equations, electromagnetic waves, nature and propagation of light, reflection, refraction, lenses, mirrors, optical instruments, interference, diffraction, special relativity, quanta, atomic spectra, nuclei, fission, and fusion. Does **not** include a lab, and the physics department does not offer a separate lab. (Prerequisite: Phys 1331 or equivalent)

Phys 3501 Modern Physics (7704)

17 assignments—3 exams—\$374—4 degree credits—text price \$63—Cassola

Descriptive modern physics. Topics: quantum mechanics, hydrogen atom, multi-electron atoms, molecular structure, quantum statistics, thermal radiation, solid state physics, nuclear physics. (Prerequisite: Physics 1291 or 1106)

Political Science

College of Liberal Arts

Terence Ball, Ph.D., Professor, Political Science

Sara Binder, Teaching Assistant and Ph.D. candidate, Political Science

Roger Jones, the author of Physics 1003, was one of the 1995 recipients of the Horace T. Morse-Minnesota Alumni Association Award for outstanding contributions to undergraduate education.

Evelyn Davidheiser, Ph.D., Assistant Professor, Political Science

Dorothy Dodge, Ph.D., Professor, Political Science, Macalester College

Stacy Hunter Hecht, Teaching Assistant and Ph.D. candidate, Political Science

Brian Job, Ph.D., Political Science

Eric Lawrence, Teaching Assistant and Ph.D. candidate, Political Science

Paula Tuchman, M.A., Teaching Assistant and Ph.D. candidate, Political Science

Sandra Wood, Ph.D., Political Science

Pol 1001 American Government and Politics (7903)

12 assignments—2 exams—\$397.50—5 degree credits—text price \$97—Binder/Hecht

e-mail

An introduction to the ways in which the goals of political actors and the structures of government combine to influence American national policy making. Attention given to the major actors (both institutions and individuals), the mechanics of elections and governing, and the values and standards of democratic rule in the United States. Concludes with two case studies of recent events in American politics. **See the Technology-Enhanced Courses section.**

Pol 1041 Contemporary Political Ideologies (V796)

3 assignments—2 exams—\$318—4 degree credits—text price \$62—study guide \$10—video rental \$50 (\$25 refund)—Ball

video

A systematic survey of the major competing ideologies of the 20th century—communism, conservatism, liberalism, fascism, “liberation” and “green” ideologies, and others. Special emphasis placed on the historical sources, philosophical foundations, and argumentative structure of these influential ideologies.

Pol 3308 The United States Congress (7932)

12 assignments—2 exams—\$344—4 degree credits—text price \$87—Binder/Lawrence

e-mail

Internal organization, committee system, party leadership, norms, recruitment; legislative policy making; relationship with the president and bureaucracy; interest group, political party,

and constituency influences on the congressional process. **See the Technology-Enhanced Courses section.**

Pol 3309 Judicial Process (7934)

12 assignments—3 exams—\$344—4 degree credits—text price \$72—supplements \$30—Wood

e-mail

Structure of the American judiciary; selection of judges; process of litigation; influences on judicial decisions; impact of and compliance with decisions; role of the Supreme Court in the American political system. (Prerequisite: Pol 1001 or equivalent) **See the Technology-Enhanced Courses section.**

Pol 3810 Topics in International Politics and Foreign Policy: Understanding War: Its Causes and Consequences (7929)

3 assignments—no exams—\$344—4 degree credits—text price \$115—study guide \$10—Job/Tuchman

Normative and ethical issues surrounding international violence; types and causes of war between the 18th and 20th centuries; mechanisms for creating peace and limiting future violence.

Pol 5471 Politics of Russia and the Commonwealth of Independent States (7955)

12 assignments—2 exams—\$344—4 degree credits—text price \$104—Davidheiser

Analysis of politics in the former USSR, including its political heritage, the impact of Marxism-Leninism, principal institutions, historical developments since 1917, foreign policy, political elites, the decision-making process, political socialization, democratization, and selected economic and political issues.

Pol 5473 Chinese Government and Politics (7954)

12 assignments—2 exams—\$344—4 degree credits—text price \$55—Dodge

An exploration of China since the Communist revolution and Chinese political shifts from 1950 to 1980; their attempts at modernization, achieving a high quality of life for the Chinese people, and achieving a major role in international politics. Topics: Chinese political ideology, developmental policies and plans, the political and economic impact of developmen-

Video-assisted courses are marked with this icon:

video

tal plans, and the contemporary Chinese international role. (Prerequisite: 12 credits in social sciences or consent of instructor)

Pol 5737 American Political Parties (7987)

15 assignments—2 exams—\$344—4 degree credits—text price \$48—Wood

e-mail

Party activities in the United States—recruiting, nominating, and campaigning. Parties in power. Party organization and membership, party identification, third parties, and independents. Party reform and the functions of parties. Attention throughout to the impact of parties on democratic government. (Prerequisite: Pol 1001 or consent of instructor) See the *Technology-Enhanced Courses* section.

Portuguese

See *Spanish and Portuguese*.

Psychology

College of Liberal Arts

Also see *Child Psychology*.

Thomas F. Brothen, Ph.D., Professor, General College

Paul Chapman, Ph.D., Assistant Professor, Psychology

Sander M. Latts, Ph.D., Associate Professor, General College

Mary Jo Meadow, Ph.D., Professor, Psychology and Religious Studies and Director of Religious Studies, Mankato State University

David J. Weiss, Ph.D., Professor, Psychology

Orville Weiszhaar, Ph.D., Psychology, Continuing Education and Extension/University College

Psy 1001 Introduction to Psychology (8104)

20 assignments—2 exams—\$397.50—5 degree credits—text price \$56—Weiss

Introduction to the study of human behavior. Topics: biological foundations of behavior; learning and memory; cognition, thinking, language and social development; individual differences and measurement; personality, psychopathology, and psychotherapy. Prerequisite for all advanced psychology courses.

Psy 1001 Introduction to Psychology (8110)

no assignments—3 exams—\$397.50—5 degree credits—text price \$60—computer disks \$5—Brothen

computer

This course is a computer version of Psy 1001. The interactive software provides a variety of self-check exercises that enable students to master key concepts and receive immediate feedback. Topics: psychology's methods, biological roots of behavior, the developing child, adolescence and adulthood, sensation, perception, states of consciousness, social psychology, social diversity, and more. The disks are for Macintosh or IBM users. Prerequisite for all advanced courses in psychology. See the *Technology-Enhanced Courses* section.

Psy 3061 Introduction to Biological Psychology (8106)

\$344 (plus texts)—4 degree credits—Chapman

new

An introduction to the biology of behavior. Topics: basic neuroanatomy and neurophysiology; the neural basis of learning, memory, and motivation; biology of abnormal behavior, dementia, and drug addiction. Explores how behavior can be analyzed by studying the nervous system. **This course is now in preparation; please inquire before enrolling.**

Psy 3101 Introduction to Personality (8188)

13 assignments—2 exams—\$344—4 degree credits—text price \$57—Meadow

Introduction to the study of personality—how people are and how they got that way. A look at how the major theorists explain personality development; a review of important research; a discussion of how different schools of personality study and assess individual personality and do psychotherapy. Exploration of some special topics in the field. (Prerequisite: Psy 1001)

Psy 3604 Introduction to Abnormal Psychology (8197)

12 assignments—2 exams—\$344—4 degree credits—text price \$62—Weiszhaar

Focuses on the theoretical causes of human behavior, the description of behavioral disorders, the etiologies of behavioral disorders, and treatment alternatives. Students may receive

"Introduction to Logic was an interesting course that satisfies the math requirement," student evaluation, Phil 1001.

credit for only one of these courses: Psy 3604 or Psy 5604. (Prerequisite: Psy 1001)

Psy 3970 Directed Studies: Stress Management (8198)

12 assignments—2 exams—\$344—4 degree credits—text price \$36—1 audiocassette \$6—Weiszhaar

audio

The concept of stress, various ways of measuring stress levels, the concept of coping, and various methods of coping. Information is incorporated from diverse medical and psychological research to show how the brain, beliefs, moods, and thoughts affect one's physical and psychological well-being. Techniques for dealing with stress directly and for health maintenance. Appropriate for health-care providers who work with patients with stress-related problems or individuals suffering from stress who want to understand the problem.

GC 1283 Psychology of Human Development (4108)

12 assignments—2 exams—\$397.50—5 degree credits—text price \$53—Latts

Explores the growth and development of an individual from conception through old age. Emphasizes physical, motor, social, emotional, and psychological growth. Integration of facets of development helps students to understand a human being as a complex organism functioning in a complex environment.

Public Health

School of Public Health

Patricia Lee, Teaching Assistant, School of Public Health

Marguerite Rheinberger, J.D., Teaching Assistant, School of Public Health

James Rothenberger III, M.P.H., Instructor, Department of Epidemiology

Robert W. ten Bense, M.D., M.P.H., Professor, School of Public Health, Department of Pediatrics, and Adjunct Professor, Center for Youth Development and Research, School of Social Work

PubH 5040 Dying and Death in Contemporary Society (4604)

4 assignments—2 exams—\$450—3 degree credits—text price \$42—3 audiocassettes \$10.25—Rothenberger and Lee

audio

Provides basic background information on concepts, attitudes, ethics, and lifestyle management in relation to dying, death, grief, and bereavement. Emphasis placed on the educational aspects of these topics for community health and helping professionals and educators. Students may receive credit for only one of these courses: PubH 5040, HSU 5040, or Mort 5040.

PubH 5609 Toward an Understanding of Child Sexual Abuse (V467)

11 assignments—no exams—\$600—4 degree credits—text price \$44—study guide \$10—video rental \$50 (\$25 refund)—ten Bense/Rheinberger

video

The 10 programs deal with a historical understanding of child sexual abuse, including definitions, dynamics, effects on the victim, how society intervenes, and prevention methods. This course is aimed at the future or current professional in public health, health sciences, social work, education, or law.

PubH 5642 Child Abuse and Neglect (V465)

11 assignments—no exams—\$450—3 degree credits—text price \$22—study guide \$10—video rental \$50 (\$25 refund)—ten Bense/Rheinberger

video

This course is a survey of the basic concepts and knowledge of child abuse and neglect. It includes a historical overview and the issue of balance of rights between children and their parents. Includes examples of child abuse and neglect; discussion of why it occurs, its consequences, and how society can intervene and prevent.

Religious Studies

College of Liberal Arts

Peter Ditmanson, Ph.D. candidate, East Asian Studies

William W. Malandra, Ph.D., Associate Professor, Classical and Near Eastern Studies

“Stress Management was helpful for living life and dealing with problems,”
student evaluation,
Psy 3970.

RelS 1031 Introduction to Religions of South Asia (5523)

11 assignments—2 exams—\$318 (plus texts)—4 degree credits—supplement \$10—video rental \$50 (\$25 refund)—Malandra/staff

video

Introduction to Hinduism, Buddhism, and Jainism.

RelS 1032 Religions of East Asia (5521.1)

13 assignments—no exams—\$318 (plus texts)—4 degree credits—Ditmanson/staff

See EAS 1032. Students may receive credit for only one of these courses: EAS 1032 or RelS 1032. **This course is now in preparation; please inquire before enrolling.**

RelS 3034 Introduction to Judaism (V553)

10 assignments—2 exams—\$344 (plus texts)—4 degree credits—study guide \$10—video rental \$50 (\$25 refund)—staff

video

See JwSt 3034. Students may receive credit for only one of these courses: RelS 3034 or JwSt 3034.

Rhetoric

Agricultural, Food, and Environmental Sciences

Ann Hill Duin, Ph.D., Associate Professor, Rhetoric
Victoria Sadler, M.A., Teaching Assistant and Ph.D. candidate, Rhetoric
Arthur E. Walzer, Ph.D., Associate Professor, Rhetoric

Rhet 3562 Writing in Your Profession (3950)

9 assignments—no exams—\$374—4 degree credits—text price \$44—Walzer/Sadler

new

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 resume. A-F grading only. (Prerequisite: Rhet 1101, Comp 1011, or equivalent)

Rhet 5581 Document Design (2286)

\$374—4 degree credits—Duin

new

How to design a document to meet users' needs, complete a draft, and evaluate the effectiveness of the document (forms and software documentation). For databases, decision aids, computer-aided instruction, online programs (Internet and others), visual displays. **This course is now in preparation; please inquire before enrolling.**

Russian

See *Institute of Languages and Literatures*.

Scandinavian Literature

See *German, Scandinavian, and Dutch*.

Social Work

Human Ecology

George Hoshino, Ph.D., D.S.W., Professor Emeritus, Social Work
Nancy Johnston, M.S.W., Instructor and Associate Director, Social Work
Ronald Rooney, Ph.D., Associate Professor, Social Work

SW 1001 Introduction to American Social Welfare and Community Services (8692)

17 assignments—1 exam—\$397.50—5 degree credits—text price \$40—Hoshino/Johnston

e-mail

Survey of social services and their components, including fields of practice, multiple auspices, levels of participation, differing ideologies, methods of approach to social problems, and the social, political, and economic factors influencing public policy and services. Primarily about the "frames of reference" within which help is offered in American social services. The relationship between social service policies and professional social work practice. This course is considered a prerequisite for undergraduate 3000-level social work courses. **See the Technology-Enhanced Courses section.**

"I liked the challenge to think critically and interpretively in Introduction to Religions of South Asia," student evaluation, RelS 1031.

SW 5424 Social Work with Involuntary Clients (8695)

12 assignments—1 exam—\$258—3 degree credits—text price \$28—video rental \$50 (\$25 refund)—Rooney

video

Designed for students and professionals practicing with involuntary clients in many fields, such as chemical dependency, mental health, public schools, criminal justice and those in nursing, social work, psychology, and psychiatry. Helps students and practitioners understand the dynamics of involuntary status and improve their contact with clients in involuntary situations.

Sociology**College of Liberal Arts**

Farah Gilanshah, Ph.D., Assistant Professor, Sociology, University of Minnesota, Morris
Bruce Mork, M.A., Instructor, Sociology, University of Minnesota, Duluth
Carol Pogue, M.A., Teaching Assistant, Sociology
Nancy Wisely, Ph.D., Teaching Specialist, Sociology

Soc 1100 Sociology and Social Problems (8611) (U of M Duluth)

12 assignments—3 exams—\$397.50—5 degree credits—text price \$51—video rental \$50 (\$25 refund)—Mork

new video

Provides students with the tools of the sociological imagination. Introduction to the process by which sociological theories are developed and tested and shows how those theories may be applied usefully to major social problems. Credits for this Duluth course will appear on your U of M Twin Cities transcript.

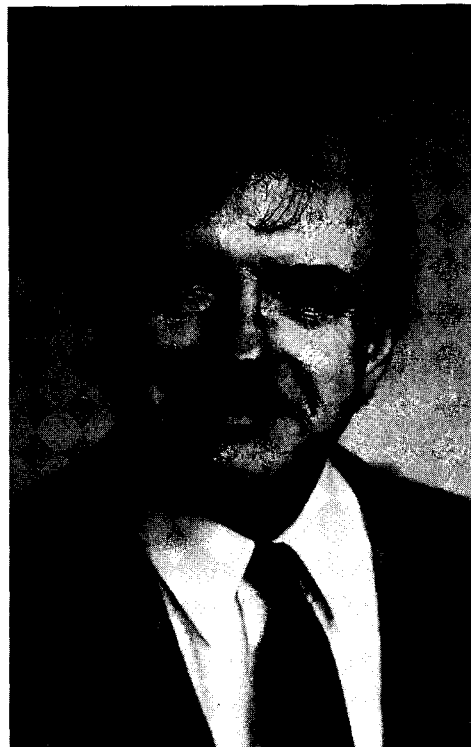
Soc 3340 Topics in Social Structure: Women in Muslim Society (8650) (U of M Morris)

10 assignments—no exams—\$430 (plus texts)—5 degree credits—Gilanshah

new

Introduction to the role of women in Muslim society from a sociological perspective. Explores what it is to be a woman in a society that is dominated by Islamic religious values and third world cultures. Covers the literature of women's studies in general, Islamic values in regard to the status of women in particular, and the sociological theories of sex roles. Provides insightful and

Ronald Rooney, an associate professor in the School of Social Work, is the author and instructor of Social Work with Involuntary Clients, SW 5424. Last fall his course was recognized as the best new Independent Study course in a national competition (the 1994 Helen Williams Award) sponsored by the University of Iowa. In addition to teaching, Rooney has practiced as a helping professional in child welfare, in outpatient mental clinics, and in public schools. His practice frequently brought him into contact with clients sent to see a helper because of a legal requirement or because they were pressured to "seek help." To assist helping professionals and students who find themselves working with clients in involuntary situations, Rooney has written a book (*Strategies for Work with Involuntary Clients*), taught courses on involuntary clients, and given training/workshop sessions. As he says in the study guide for SW 5424, his course may be useful for students who are not helping professionals themselves, but are involved in involuntary situations in their everyday lives—including, sometimes, as the involuntary university student.



sociological comparison of the effects of different political and economic structures on the roles of women in different Muslim societies, including some African, Asian, and Middle Eastern countries. Readings in anthropological and sociological literature, and the autobiographies of Muslim women. Credits for this Morris course will appear on your U of M Twin Cities transcript. **This course is now in preparation; please inquire before enrolling.**

Soc 5201 Introduction to Social Psychology (8676)

13 assignments—2 exams—\$344—4 degree credits—text price \$51—Wisely/Pogue

An intensive examination of the major issues in social psychology. Covers substantive areas of self, personality, person perception, interpersonal attraction, attitudes, social influence, prosocial behavior and aggression, small groups, and collective behavior. Emphasis on application of theories and concepts to everyday life. Sociology majors may not receive credit for this course.

Spanish and Portuguese

College of Liberal Arts

Portuguese

Ronald W. Sousa, Ph.D., Professor, Portuguese and Spanish, Head of the Department of Spanish, Italian, and Portuguese, University of Illinois

Port 3970 Directed Studies: The Everpresent Past in Spanish and Portuguese Culture (A684)

no assignments—2 exams—\$344—4 degree credits—study guide \$10—11 audiocassettes \$33.50—Sousa

audio

Investigates how the concept of “regenerationism” has retained and exerted cultural force in the Iberian nations, forming a part of their cultural systems—and how it continues to exert that force today. Course materials chronologically structured around the development of the notion that, in Spain and Portugal, there are no beginnings—only “re-beginnings.” Selections from literature, philosophy, and social commentary illustrate this sense of a lost past of imperial

greatness and the need to recreate it. Begins with the Portuguese poet Luis de Camões’ epic poem of 1578 and ends with documents about Spanish “nationalities” of the post-Franco era. Most readings are in the original language. (Prerequisite: Portuguese major)

Spanish

Susana Blanco-Iglesias, Teaching Assistant and Ph.D. candidate, Spanish

Joaquina Broner, Teaching Assistant and Ph.D. candidate, Spanish

María A. Martín-Morán, Teaching Assistant and Ph.D. candidate, Spanish

María B. Miguel-Pérez, Teaching Assistant and Ph.D. candidate, Spanish

Luis Ramos-García, Ph.D., Assistant Professor, Spanish and Portuguese

Ronald W. Sousa, Ph.D., Professor, Portuguese and Spanish, Head of the Department of Spanish, Italian, and Portuguese, University of Illinois

Zhongshu Tan, Teaching Specialist, Spanish and Portuguese

Note: Students are discouraged from enrolling concurrently in two language courses at the 1xxx level.

Span 0221 Reading Spanish (6817)

13 assignments—1 exam—\$318—no credit—text price \$36—staff

Prepares students primarily for reading, especially general and technical nonliterary prose. The department will certify to the Graduate School a reading knowledge of Spanish on successful completion of the final examination. S-N grading only.

Span 1101 Beginning Spanish I (6811)

9 assignments—2 exams—\$397.50—5 degree credits—text price \$93—1 audiocassette \$3.50—video rental \$50 (\$25 refund)—staff

audio

video

Fundamentals of Spanish. Students develop listening and speaking skills and learn about the cultures of Spain and Latin America by viewing 18 episodes of a Spanish soap opera, *Destinos*, reading its accompanying textbook and study guide, and listening to audiocassettes.

“In Principles of Macroeconomics, I liked the encouragement to make connections between course content and daily life,” student evaluation, Econ 1102.

Span 1102 Beginning Spanish II (6812)

8 assignments—2 exams—\$397.50 (plus texts and audiocassettes)—5 degree credits—video rental \$50 (\$25 refund)—staff

audio **video**

Continuation of Span 1101. (Prerequisite: Span 1101 or equivalent)

Span 1103 Beginning Spanish III (6813)

8 assignments—2 exams—\$397.50 (plus texts and audiocassettes)—5 degree credits—video rental \$50 (\$25 refund)—staff

audio **video**

Continuation of Span 1102. (Prerequisite: Span 1102 or equivalent.)

Span 1104 Intermediate Spanish I (6809)

4 assignments—2 exams—\$397.50—5 degree credits—text price \$73—audiocassettes \$47—staff

audio

Speaking and comprehension; development of reading and writing skills based on materials from Spain and Spanish America. Grammar review; composition; cultural aspects of the Spanish-speaking world. (Prerequisite: Span 1103 or equivalent)

Span 1105 Intermediate Spanish II (6810)

4 assignments—2 exams—\$397.50—5 degree credits—text price \$73—audiocassettes \$47—staff

audio

Continuation of Span 1104. (Prerequisite: Span 1104 or equivalent)

Span 1106 Intermediate Spanish III (6814)

4 assignments—2 exams—\$397.50—5 degree credits—text price \$73—audiocassettes \$47—staff

audio

Continuation of Span 1105. (Prerequisite: Span 1105 or equivalent)

Span 3970 Directed Studies: The Everpresent Past in Spanish and Portuguese Culture (A683)

no assignments—2 exams—\$344—4 degree credits—text price \$33—study guide \$10—supplement \$10—11 audiocassettes \$33.50—Sousa

audio

See Port 3970. Most readings are in the original language. (Prerequisite: Spanish major)

Spanish-Portuguese

Ronald W. Sousa, Ph.D., Professor, Portuguese and Spanish, Head of the Department of Spanish, Italian, and Portuguese, University of Illinois

SpPt 3610 Topics in Spanish-Portuguese Civilization and Culture (A682)

no assignments—2 exams—\$344—4 degree credits—text price \$43—11 audiocassettes \$33.50—study guide \$10—Sousa

audio

See Port 3970. Readings in English translation.

Statistics**College of Liberal Arts and General College**

Joan Garfield, Ph.D., Associate Professor, General College
David H. Olwell, M.S., Mathematics, U.S. Military Academy

Stat 1001 Introduction to Ideas of Statistics (7272)

9 assignments—1 exam—\$318—4 degree credits—text price \$55—Olwell

new

Survey of statistical ideas that emphasizes concepts over computation—controlled versus observational studies; presentation and description of data; correlation and causality; sampling; accuracy of estimates; tests. (Prerequisite: high school algebra)

GC 1454 Statistics (7273)

16 assignments—2 exams—\$397.50—5 degree credits—text price \$61—Garfield

Introduction to modern statistics, emphasizing

Joan Garfield, the author/instructor of GC 1454, Statistics, was one of the 1995 recipients of the Horace T. Morse-Minnesota Alumni Association Award for outstanding contributions to undergraduate education.

exploratory data analysis. Topics: methods of organizing, graphing, and interpreting data; measures of center and variability; sampling; probability and probability distributions; estimation, correlation, and hypothesis testing. (Prerequisite: elementary algebra)

Swedish

See *German, Scandinavian, and Dutch*.

Theatre Arts

College of Liberal Arts

Arthur Ballet, Ph.D., Professor Emeritus, Theatre Arts

Richard Gale, M.A., M.F.A., Instructor, Theatre Arts

Charles Nolte, Ph.D., Professor, Theatre Arts

Th 1101 Introduction to the Theatre (V406)

3 assignments—1 exam—\$318—4 degree credits—text price \$68—video rental \$50 (\$25 refund)—Ballet

video

An eclectic overview of Western drama from Aeschylus to August Wilson, from Shakespeare to Sam Shepard, focusing on the plays, playwrights, and players that have shaped today's theatre, film, and television. Students are required to attend theatre performances and to enhance their critical skills and understanding of the processes and forms of drama and of production.

Th 5115 Playwriting I (A405)

2 assignments—no exams—\$344—4 degree credits—text price \$40—study guide \$10—10 audiocassettes \$30.75—Nolte/Gale

audio

Designed to introduce the craft of writing for the theatre to students who have no experience in playwriting. Provides a forum in which students complete their first one-act play, emphasizing the technical elements, vocabulary of playwriting, the nature of the writing experience—from germinal idea to completed script—and strategies for taking a new play to market.

Women's Studies

College of Liberal Arts

Angel Kwolek-Folland, M.A. and Ph.D. candidate, History

Rachael E. Martin, M.A., Instructor, Women's Studies, University of Minnesota, Duluth

Mary Jo Maynes, Ph.D., Associate Professor, History

Jacquelyn N. Zita, Ph.D., Associate Professor, Women's Studies

WS 1990 Northern Minnesota Women: Myths and Realities (A882) (U of M Duluth)

9 assignments—1 exam—\$238.50—3 degree credits—text price \$38—study guide \$10—supplement \$10—10 audiocassettes \$30.75—Martin

audio

This course examines the stereotypes and realities of life for Northern Minnesota Indian, Yankee, and immigrant women from early settlement times to the present. The historical research projects can be written using topics from the student's geographical location. Credits for this Duluth course will appear on your U of M Twin Cities transcript.

WoSt 3100 Topics in Women's Studies: Women between Victorianism and Emancipation (8807)

3 assignments—no exams—\$344 (plus texts)—4 degree credits—Maynes and Kwolek-Folland

This course explores continuity and change in the history of Anglo-American women from the late Victorian era to the present. Topics: the Victorian legacy, women and work, women's education, female sexuality, reproduction, and women and politics.

WoSt 3202 Biology of Women (8806)

13 assignments—no exams—\$344 (plus texts)—4 degree credits—Zita

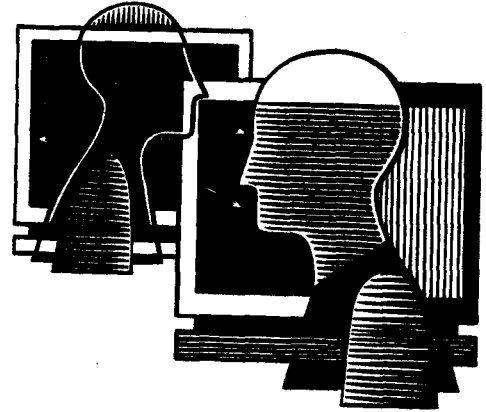
new

A study of the biological aspects of the female life cycle. Special attention given to early development, menstrual cyclicality, gestation and childbirth, sexuality, menopause, the aging process, and diverse health conditions. (Prerequisite: Biol 1009 or Phsl 1001 or permission of instructor) **This course is now in preparation; please inquire before enrolling.**

"Jill Gidmark's feedback on the assignments made a direct improvement on the work I did," student evaluation, Rhet 3562.

Technology-Enhanced Courses

To make your learning experience as interesting, challenging, and intellectually stimulating as possible, we offer several kinds of technology-enhanced courses. Like other Independent Study courses, technology-enhanced courses include a course study guide and texts. The study guide integrates all of the course components—it details the reading assignments, gives the viewing, listening, or computer instructions, and contains study notes, written assignments, and/or exam information. Technology-enhanced courses include those that use



- e-mail submission of assignments;
- computer disks;
- the Internet; and
- interactive TV classes (Group Independent Study).

E-Mail Assignment Service

Access to the University's electronic mail system and the Internet is part of Continuing Education and Extension's (CEE) commitment to provide effective communication resources for CEE students taking University credit courses. Independent Study now offers students in about 50 courses the option to send assignments and receive them back with feedback and a grade via e-mail. If a course requires you to take proctored exams, you must either come to Independent Study's office to take your exams or arrange to have them sent via mail to your proctor; you **cannot** use e-mail for proctored exams (see *Course Submissions and Completion; Examinations*). More courses using this option will be added in the future. E-mail assignment service availability for particular courses may change during the year; call Independent Study to verify that e-mail is available for a particular course before you register using this option. Courses that have the e-mail option are marked with this icon in the *Course Descriptions* section:

e-mail

Students who have access to e-mail may use this option. When you register for a college credit course through Independent Study, you automatically receive an e-mail account on a U of M Twin Cities computer. You can dial into your account from a home computer with a modem or access your account from the many computer labs on U of M campuses (see Computer Labs, below). Students **not** within the 612 area code will incur long distance charges.

This service is available at no charge to Independent Study students for one year from the most current date of registration (it is **not** available for reinstatements). It will let you access e-mail and other information resources on the campus-wide network and Internet. Note that it takes one week (seven days) from the date of registration to create a new e-mail account. This is true for any new University student account.

The Internet

Independent Study is now able to offer certain courses completely online. **Internetting for Biologists and Others (FScN 5111)** is the online Independent Study course at this time. For information on FScN 5111, see the *Course Descriptions* section. We strongly suggest that beginner Internet users consider taking this course before registering for other Independent Study Internet-based courses (now in development), or to learn more about the Internet and the variety of tools available to help you fully exploit its potential. Independent Study plans to offer several new courses online in the near future. Those courses will be marked with this icon:

Internet

The Internet is essentially a large number of computers tied together by telephone lines, network "backbones," and workplace local area networks (LANs). Internet users have the capability to communicate with others on the Internet, transfer files between computers on the Internet, and log into other computers on the Internet (with the proper authorization or permission, of course).

Many courses developed by Independent Study use these tools as a required (e.g., Internet-based courses) or optional element (e.g., e-mail assignment service and/or course listservs) of the course.

If you want additional information about current Independent Study projects related to using Internet resources in courses, send e-mail to indstudy@maroon.tc.umn.edu or, if you know how to access the World-Wide-Web or Gopher, try the following URLs:

Web site: <http://www.cee.umn.edu/dis/>

Gopher Hole: <gopher://mail.cee.umn.edu:70/11/dis>

You can also call or write Independent Study to get more information about Internet projects.

Computer-Assisted Courses

Independent Study offers several courses that use computer instructional software, providing students with an opportunity for an interactive learning experience. Some programs are designed for Macintoshes, some for IBMs, and others are available for both. You will find detailed information about these courses in the *Course Descriptions* section, where they are marked with a computer icon:

computer

Biol 1101, Heredity and Human Society; requires Macintosh
Comp 3014, Writing in the Social Sciences; requires Macintosh
Comp 3031, Technical Writing for Engineers; requires Macintosh
GC 1571, Introduction to Microcomputer Applications; requires IBM
GC 1572, Introduction to Computer Programming; requires IBM with BASIC interpreter

Ger 1101, 1102, 1103, Beginning German I, II, III; requires IBM or Macintosh
Psy 1001, General Psychology; requires Macintosh or IBM

Russ 1101, 1102, 1103, Beginning Russian I, II, III; optional use of IBM or Macintosh
High School English, Basic Strategies for Writing; requires Macintosh

The authors of some courses recommend software packages that you can purchase or order through your local computer software store or bookstore. We bring these packages to your attention as suggestions. If you enjoy working with computers and are interested in enhancing your understanding of a subject area, you might want to take one of the following courses and use the recommended software.

GC 1161, Physical Science: Solar System Astronomy. *Dance of the Planets*; requires IBM; ARC Simulations, Box 1955A, Loveland, CO 80539; phone 303-667-1105.

GC 1162, Physical Science: Stellar Astronomy. *The Sky*; requires IBM; Software Bisque, 912-12th St., Suite A, Golden, CO 80401; phone 303-278-0045. (available for DOS, Windows, or CD-ROM)

Nor 1101, 1102, 1103, Beginning Norwegian I, II, III. *MacNorsk*; requires Macintosh; *Norsk for Windows* requires IBM or IBM-compatible. Available from Louis Janus, 5136 Sheridan Ave. S., Minneapolis, MN 55410; phone 1-800-532-3881.

Span 1101, 1102, 1103, Beginning Spanish I, II, III. Information concerning the software program is available in the required textbook.

If you do not own a personal computer, you may work at one of the University's computer labs. Obtain current schedules and computer assistance at the Distributed Computing Services office, 150 Shepherd Labs, or by calling 612-626-4276. Schedules are also available at the labs.

Independent Study students may obtain free access to computer labs during the academic quarter in which they register. You must show a paid fee statement/course confirmation form and picture ID. Labs do charge for use of printers, however. If you want access beyond the one academic quarter, you must sign an individual access agreement and pay a fee, which can be arranged at the lab you choose. Find the lab most convenient for you in the list below. Locations and hours are subject to change. Call the lab first to find out its hours and the type of equipment (IBM or Macintosh) available.

Computer Labs

Minneapolis campus, East Bank

54 EddyH Annex, 625-0314
3-166 EE/CSci, 624-8885
4-204 EE/CSci, 625-9081
121 EltH, 624-0866
14 FolH, 625-4896
26 LindH, 626-0856
308 MechE, 625-7352
8-425 MoosT, 625-1477
130 Phys, 625-6820
9 WaLib, 626-1899

Minneapolis campus, West Bank

455 BlegH, 626-7778
50 HHHctr, 624-6526

Duluth campus

Info Services Help Desk, 726-8847

Public Access Terminals located at:

120 Bohannon Hall

Kirby Student Center

Lake Superior Hall dormitory lounge

Library study lounge & upper floors

School of Business & Economics atrium

Microcomputer labs located at:

470 H, 726-6238

165L*, 726-6549

209 MonH, 726-8853

239 MonH, 726-8970

177 MWAH, 726-7632

45 SBE, 726-7700

* has special equipment for the disabled

St. Paul campus
B50 CEntLib, 624-3269
17 ClaOff, 626-1252
135 ClaOff, 624-9226
305 McNH, 624-5367
436 VetS, 624-1788

Rochester campus
Continuing Education Center
855 30th Avenue SE
Rochester, Minnesota
280-2828; 1-800-947-0117

Morris campus
Basement Behm West—
Main Complex, 589-6390
Ground floor Behm East—
24 hour lab, 589-6380
14 Cam, 589-6390
Basement MRC, 589-6355
Basement ORL, 589-6390
3rd floor RBLib, 589-6169
127 SC—Computer Science Lab, 589-6390
SC—24 hour lab, 589-6390
Basement SS—Psy Lab, 589-6390

Group Independent Study

Group Independent Study courses combine the advantages of correspondence study with a limited number of class meetings, providing contact with a professor and fellow students. Interactive television links together classrooms at several campuses of the University of Minnesota, which makes these courses available over a wide geographical area. GIS courses are marked with the first icon below. Certain GIS courses will be available for graduate credit; they are also marked with a second icon:

group

grad

Group Independent Study (GIS) courses begin on a specific date, last about six months, and include five or six class meetings for lectures, discussions, and group activities. Students meet in special distance-education classrooms at selected campuses or Continuing Education sites of the University. Students who enroll in the GIS versions of courses spread out their correspondence coursework over six months, structure their study time to suit their schedules, do their coursework at home, and still have the advantages of person-to-person interaction with the instructor and other students.

Fall 1995–Winter 1996

Registration dates: August 14–September 29, 1995

How to register: Use the registration form in this bulletin and check YES next to the question concerning GIS.

Genetics, Biol 5003 (GIS version, DIS G100)

4 credits; instructor is Professor Robert Brooker

For course contents, costs, requirements, and prerequisites, see *Course Descriptions*.

Locations:

Twin Cities campus, Minneapolis, room to be announced

Rochester Continuing Education Center, 855 30th Ave. SE, Rochester, room to be announced

Crookston campus, room to be announced

Schedule:

Five classes, Tuesdays or Thursdays, 6:00–8:30 p.m., Oct. 26, Nov. 16, and Dec. 12, 1995; Jan. 25 and Feb. 15, 1996.

Graduate credit is available for the GIS version of this course. See the note about graduate credit in the listing for this course in *Course Descriptions*.

Business Policy: Strategy Formulation and Implementation, Mgmt 3004 (GIS version, DIS G101)

5 credits; instructors are Professor Akbar Zaheer and James Detert

For course contents, costs, requirements, and prerequisites, see *Course Descriptions*.

Locations:

Twin Cities campus, Minneapolis, room to be announced

Crookston campus, room to be announced

Schedule:

Six classes, Thursdays, 5:30–7:30 p.m., Nov. 2, Nov. 30, and Dec. 14, 1995; Jan. 18, Feb. 1, and Mar. 14, 1996.

Winter–Spring 1996

Registration dates: November 13–December 15, 1995

How to register: Use the registration form in this bulletin and check YES next to the question concerning GIS.

Techniques of Literary Study, Engl 3008 (GIS version, DIS G102)

4 credits; instructor is Professor Donald Ross

For course contents, costs, requirements, and prerequisites, see *Course Descriptions*.

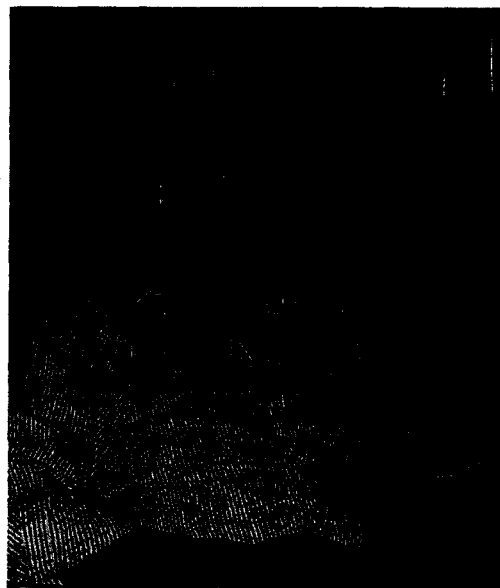
Locations:

Twin Cities campus, Minneapolis, room to be announced

Rochester Continuing Education Center, 855 30th Ave. SE, Rochester, room to be announced

Schedule:

Five classes, Thursdays, 7:00–9:00 p.m., Jan. 11, Feb. 8, Mar. 14, May 2, and May 30, 1996.



English Professor Donald Ross, Jr., will be teaching Techniques of Literary Study, Engl 3008, as a Group Independent Study (GIS) course during winter/spring 1996. Students enrolled in both the correspondence and the GIS versions of this course will learn and practice the analysis of various literary forms, with special emphasis on poetry. "I'm looking forward to teaching the Group version of this course because there will be more opportunity for students to ask questions and make comments; we'll be able to explore literary techniques together."

Financing State and Local Governments, AgEc 5640 (GIS version, DIS G103)

4 credits; instructor is Professor Beth Walter Honadle

For course contents, costs, requirements, and prerequisites, see *Course Descriptions*.

Locations:

Twin Cities campus, St. Paul, Library, room 4

Morris campus, room to be announced

Crookston campus, room to be announced

Schedule:

Four classes, Tuesdays or Wednesdays, 4:30–7 p.m., Jan. 31, Feb. 28, Mar. 26, and Apr. 23, 1996.

Graduate credit is available for the GIS version of this course. See the note about graduate credit in the listing for this course in *Course Descriptions*.

Spring–Summer 1996

Registration dates: February 21–March 27, 1996

How to register: Use the registration form in this bulletin and check YES next to the question concerning GIS.

Cell Biology, Biol 5004 (GIS version, DIS G104)

4 credits; instructor is Professor Robert Brooker

For course contents, costs, requirements, and prerequisites, see *Course Descriptions*.

Locations:

Twin Cities campus, Minneapolis, room to be announced

Rochester Continuing Education Center, 855 30th Ave. SE, Rochester, room to be announced

Crookston campus, room to be announced

Schedule:

Five classes, Thursdays, 6:00–8:30 p.m., Apr. 18, May 23, June 20, July 25, and Aug. 22, 1996.

Graduate credit is available for the GIS version of this course. See the note about graduate credit in the listing for this course in *Course Descriptions*.

Survey of English Literature I, Engl 3111 (GIS version, DIS G105)

4 credits; instructor is Professor Toni McNaron

For course contents, costs, requirements, and prerequisites, see *Course Descriptions*.

Locations:

Twin Cities campus, Minneapolis, room to be announced

Rochester Continuing Education Center, 855 30th Ave. SE, Rochester, room to be announced

Schedule:

Four classes, Tuesdays, 5:30–7:30 p.m., Apr. 16, May 14, June 18, and July 23, 1996.

Course clusters are interdisciplinary groups of courses with related subject matter. We designed them to enable you to bridge courses and disciplines as you pursue your interests. We hope that they will make your Independent Study learning experience more rewarding and fun.



Health and Human Services

This cluster is designed for students who are planning—or have already started—a career in Health and Human Services.

Anth 1102—Introduction to Social and Cultural Anthropology
Anth 5141—Psychological Anthropology
Biol 1101—Heredity and Human Society
CPsy 1301/3309—Introductory Child Psychology
CPsy 3302—Infancy
CPsy 3331/5331—Social Development
CPsy 5303—Adolescent Psychology
EPsy 5112—Knowing, Learning, and Thinking
EPsy 5114—Psychology of Student Learning
EPsy 5400—Counseling Psychology: Integrative Career Planning
FScN 1102—Technology of Food Processing
FScN 1612—Principles of Nutrition (in preparation)
FSoS 5001—Human Sexual Behavior
FSoS 5200—Family Systems
FSoS 5240—Violence in the Family
FSoS 5240—American Families in Transition
FSoS 5500—Racial and Ethnic Diversity in Families
GC 1283—Psychology of Human Development
GC 1284—Behavior Problems of Children
GC 1722—Parent-Child Relationships
Nurs 3690/5690—Life Span Growth and Development I
Nurs 3691/5691—Life Span Growth and Development II
Psy 1001—Introduction to Psychology
Psy 3061—Introduction to Biological Psychology
Psy 3101—Introduction to Personality
Psy 3604—Introduction to Abnormal Psychology
Psy 3970—Stress Management
PubH 5040—Dying and Death in Contemporary Society
PubH 5609—Child Sexual Abuse
PubH 5642—Child Abuse and Neglect

Soc 5201—Introduction to Social Psychology
SW 1001—Introduction to American Social Welfare and Community Services
SW 5424—Social Work with Involuntary Clients
WoSt 3202—Biology of Women (in preparation)

The Master Teacher

This cluster includes several courses that can be counted toward a Master of Education degree at the University of Minnesota. Consult the current College of Education bulletin to determine which courses might be appropriate for your career objectives.

CI 5336—Systems Approach to Design of Instruction
CI 5362—Introduction to Instructional Computer Programming
CI 5620—Second Language Programs for Young Children
CPsy 1301/3309—Introductory Child Psychology
CPsy 3302—Infancy
CPsy 3331/5331—Social Development
CPsy 5303—Adolescent Psychology
Educ 5666—Creating Social Studies Curriculum
EdPA 5099—Inventing the Future: Living, Learning, and Working in the 1990s
EdPA 5110—Personal Time Management and Effective Administration
EPsy 5112—Knowing, Learning, and Thinking
EPsy 5114—Psychology of Student Learning
EPsy 5400—Counseling Psychology: Integrative Career Planning
EPsy 5690—Education of the Gifted and Talented
FSoS 5001—Human Sexual Behavior
FSoS 5240—Violence in the Family
FSoS 5240—American Families in Transition
FSoS 5500—Racial and Ethnic Diversity in Families

Management, Business, and Industry

About 20 percent of the people who enroll in Independent Study want to become more proficient in this area. If you are among them, then this cluster is designed to serve your needs and interests. You may use many of the courses in this cluster in certificate programs in accounting, business administration, credit and financial management, or industrial relations (see the *CEE Certificate Programs* section).

Acct 1050—Introduction to Financial Reporting (in preparation)
Acct 3001—Introduction to Management Accounting
Acct 5135—Income Tax Accounting
BGS 3002—Ethics and Stakeholder Management
BGS 3004—International Business
BLaw 3058—Law/Contracts
BLaw 3078—Agency, Partnerships, Corporations, and Commercial Paper
BLaw 3088—Property, Wills, and Estates
BFin 3000—Finance Fundamentals
Comp 1031—Introduction to Technical and Business Communication
Comp 3022—Critical Reading and Writing for Management
Comp 3032—Preprofessional Writing for Business
Econ 1002—Economics and Society
Econ 1101—Principles of Microeconomics
Econ 1102—Principles of Macroeconomics
Econ 3102—Macroeconomic Theory
Econ 3701/5721—Money and Banking
GC 1235—United States: Law in Society

GC 1511—Introduction to Modern Business
 GC 1513—Principles of Small Business Operations
 GC 1540—Accounting Fundamentals I
 GC 1542—Accounting Fundamentals II
 GC 1551—Marketing: Introduction
 GC 1553—Marketing: Principles of Management
 Hist 3841—American Business History
 IR 3000—Teaching Labor Relations
 IR 3007—Collective Bargaining and Labor Relations
 Mgmt 3001—Fundamentals of Management
 Mgmt 3002—Psychology of Management (in preparation)
 Mgmt 3004—Business Policy
 Mgmt 3008—Entrepreneurship and the Smaller Enterprise
 Mktg 3000—Principles of Marketing (in preparation)

Science, Technology, and Society

Science and technology influence every aspect of modern society and are in turn structured by social, political, and economic forces. Courses in this cluster draw attention to some of these complex issues.

Biol 1101—Heredity and Human Society
 Biol 3051—Environmental Studies
 EEB 3001—Introduction to Ecology
 FScN 1102—Technology of Food Processing
 FR 1201—Conservation of Natural Resources
 Geog 3355—Environmental Problems
 Nurs 3690/5690—Life Span Growth and Development I
 Nurs 3691/5691—Life Span Growth and Development II
 Phys 1003—Changing Physical World
 WoSt 3202—Biology of Women (in preparation)

Multiculturalism

Ethnic conflicts and encounters in the United States and abroad have made us increasingly aware of the importance of understanding and appreciating different cultures. This cluster includes many courses that will help you appreciate the dynamics of multicultural societies. Some of these courses might enable you to meet a degree requirement for the study of multiculturalism at your college or university.

Afro 3601—Introduction to African Literature
 AmIn 3111—American Indian History I
 AmIn 3112—American Indian History II
 AmSt 1001—American Cultures I
 AmSt 1002—American Cultures II
 AmSt 1003—American Cultures III
 Anth 1102—Introduction to Social and Cultural Anthropology
 Engl 1591—Literature of American Minorities
 FSoS 5500—Racial and Ethnic Diversity in Families
 GC 1365—Literatures of the United States
 GC 1816—African-American Literature
 GC 1836—Asian American Literature
 Geog 3101—Geography of United States and Canada
 Geog 3121—Geography of Latin America
 Geog 3181—Russia and Environs
 Hist 1011—Introduction to World History I
 Hist 1012—Introduction to World History II

Hist 1013—Introduction to World History III
Hist 1301—American History I
Hist 1302—American History II
Hist 1305—Cultural Pluralism in American History
Hist 3401—Survey of Latin American History: Colonial Period to 1800
Hist 3402—Survey of Latin American History: 1800–1929
Hist 3403—Survey of Latin American History: 1929 to Present
Hist 3871—American Indian History I
Hist 3872—American Indian History II
Hist 3910—A Century of American Immigration: 1884–1984
JwSt 3521—The Holocaust
RelS 1031—Religions of South Asia
RelS 1032—Religions of East Asia (in preparation)
RelS 3034—Introduction to Judaism
Soc 3340—Women in Muslim Society (in preparation)

One of the best ways to learn about another culture is to learn its language. Independent Study currently offers courses in the following languages.

Dan 1101—Beginning Danish I
Fin 1101/1102/1103—Beginning Finnish I, II, III (1102 and 1103 are in preparation)
Fren 1101/1102/1103—Beginning French I, II, III
Ger 1101/1102/1103—Beginning German I, II, III
Grk 1101—Beginning Classical Greek I
Ital 1101—Beginning Italian I
Lat 1101/1102—Beginning Latin I, II
Nor 1101/1102/1103—Beginning Norwegian I, II, III
Nor 1104/1105/1106—Intermediate Norwegian I, II, III
Russ 1101/1102/1103—Beginning Russian I, II, III
Span 1101/1102/1103—Beginning Spanish I, II, III
Span 1104/1105/1106—Intermediate Spanish I, II, III
Swed 1101/1102/1103—Beginning Swedish I, II, III
Swed 1104/1105/1106—Intermediate Swedish I, II, III

The Department of Independent Study offers high school correspondence courses as an educational service to the state. These courses are approved by the State Department of Education and satisfy University of Minnesota entrance requirements. Courses offered through correspondence are especially helpful for

- students who need particular English, science, foreign language, or mathematics credit for college entrance;
- students who have been forced to drop out of school;
- handicapped students who cannot attend public high school;
- above-average students who have permission to accelerate their high school completion; or
- anyone who wants to study for personal satisfaction.



General Information

With the approval of high school authorities, Independent Study courses may be used to fulfill requirements for high school graduation. The high school diploma itself, however, is not granted by the Department of Independent Study, but by the school board only. **Students expecting to use credits earned through Independent Study to meet graduation requirements must obtain permission from their high school principal, counselor, or superintendent before enrolling.**

Adults 19 years old or older who have left school and are eligible to take the General Educational Development (GED) tests for high school equivalency may also find it useful to take high school courses through Independent Study. Courses in English, mathematics, social studies, and other subjects can serve as a valuable review for students preparing to take the GED examinations. Detailed information about the GED examinations in Minnesota may be obtained by contacting the GED office, State Department of Education, Capitol Square Building, 550 Cedar St., St. Paul, MN 55101; 612-296-4057.

Admission

Independent Study courses are open to anyone who can benefit from them. High school credits are awarded, however, only in cooperation with school authorities.

College Courses through Independent Study

With the approval of the appropriate high school authority and the Department of Independent Study, high school students may complete college-level courses for credit. Acceptance of such credits is, of course, a function of the college the student enters. See the *Course Descriptions* section of this bulletin for a complete listing of college courses offered by Independent Study.

After Graduation: If you are one of the many high school graduates who cannot go to college immediately, but must seek temporary or long-term employment, Independent Study courses at the college level may be an important way of earning credits toward a degree or certificate. Independent Study offers courses in a wide range of subjects designed to meet individual needs. If you want to continue your education through Independent Study courses, see the other sections of this bulletin.

Post-Secondary Enrollment Options

In 1985 the Minnesota state legislature enacted the Post-Secondary Enrollment Options (PSEO). Under the PSEO, eligible public high school juniors and seniors can take college courses and earn high school units and, subsequently, college credits for the courses they successfully complete. The Minnesota State Department of Education pays for the tuition, fees, and books for the courses. The PSEO can be used for Independent Study college courses.

High school students interested in taking courses through Independent Study under the PSEO must submit all registration materials to the Advanced High School Student Services Office. Registration consists of

1. consulting with the student's high school counselor to complete the PSEO notice of registration form;
2. submitting a high school transcript;
3. completing an Independent Study registration form; and
4. providing a brief statement explaining the purpose of registering in the course (e.g., how you plan to use the credits).

If you have any questions regarding selection criteria, acceptable courses, or enrollment forms, please contact:

Advanced High School Student Services Office
University of Minnesota
201 Wesbrook Hall
77 Pleasant St. SE
Minneapolis, MN 55455
612-626-1666

Credits

Independent Study courses satisfy University of Minnesota entrance requirements and may be accepted by school districts in fulfillment of requirements for high school graduation. The courses listed in this section use the semester as the basis of credit evaluation. If your school uses a different basis, consult your counselor or principal. Also see *Admission* (above) and *Tuition and Fees* (below).

Faculty

The authors/instructors are listed after each subject area in the *Course Descriptions* section (see below).

Grades

Four passing grades are acceptable to earn credit in an Independent Study course: A, excellent; B, good; C, fair; and D, below average but passing. The grade of F indicates unsatisfactory work; students who earn an F will not receive credit for the course. The University keeps a record of all courses completed and will mail grade reports to students and/or high school officials on request.

How to Enroll

If you plan to apply Independent Study credits toward high school graduation, obtain permission from your high school district authorities. If you would like to know more about a course before enrolling, write to Independent Study for an introduction to the course. The introduction will give you an outline of the course content and work.

Complete a registration form, and send it with full tuition (see *Tuition and Fees*, below). You are encouraged to order your texts/supplies for a course **at the time you register**. For information on ordering texts/supplies, see the *Tuition, Course Materials and Fees, Financial Aid* section; *Course Materials* and *Postage*.

Send your registration form and payment to the Department of Independent Study, University of Minnesota, 45 Wesbrook Hall, 77 Pleasant St. SE, Minneapolis, MN 55455. Remittances should be by check, money order, credit card, or authorization for payment from your school district. Checks or money orders should be payable to the University of Minnesota.

Tuition and Fees

Tuition is \$45 per half-semester credit and \$90 per one-semester credit (**tuition is subject to change without notice**). Refer to the *Course Descriptions* section for information on college tuition.

Either you or your school district may pay the tuition for high school courses. If your school district has agreed to pay the tuition, you must submit an authorization for payment along with registration materials (see the *Tuition, Course Materials and Fees, Financial Aid* section, *Tuition, Authorization Payment Plan*). Check the box on the registration form labeled Bill to Department/Company.

Other Information

In addition to reading this section of the bulletin, refer to the following sections for details on:

Cancellations

Policies and Procedures

Assignment Submission

Course Submissions and Completion

Examinations

Reenrollment

Reinstatement

Taxable Items

Course Materials

Tuition, Course Materials and Fees,

Postage

Financial Aid

Course Descriptions

Business

Gary R. Seiler, B.S., Instructor, Continuing Education and Extension, University of Minnesota
Gary G. Strom, M.S., Instructor, Continuing Education and Extension, University of Minnesota

Accounting, Part A (9813)

1 semester credit—11 assignments—2 exams—text price \$55—Strom

A simple accounting cycle for a small service business is worked out in 11 lessons and two application projects. Students use debits, credits, balance sheets, general journals, ledgers, cash journals, worksheets, and income statements. Gives students some of the basics of accounting.

General Business, Part A (9823)

1 semester credit—10 assignments—2 exams—text price \$28—Seiler

Designed to acquaint students with the role of business in our economic system. Students explore their relationships as consumers to business and our economic system. Topics: business and our economic system; money, credit, and banks; earning an income; labor and management; taxation; economic problems; and citizenship as it relates to the free enterprise system.

General Business, Part B (9824)

1 semester credit—10 assignments—2 exams—text price \$28—Seiler

A continuation of Part A, emphasizing the role of the consumer in our economic system. Topics: money management; spending; consumer protection; consumer credit; making money payments; building financial security; and insurance.

English

Margaret Anderson, M.A., English Instructor, Totino-Grace High School
Mary Ellen Briel, M.A., English and French Instructor, Totino-Grace High School
Melvin A. Hoke, M.A., English Instructor, Minneapolis Public Schools

Ninth Grade English, Part A (9831)

1 semester credit—10 assignments—1 exam—text price \$50—Hoke

A review of short story elements, emphasizing plot, character, setting, point of view, theme and unity; an introduction to the epic, focusing on themes and patterns in Homer's *Odyssey*; course concludes with an open-book final exam project (making up your own story).

Ninth Grade English, Part B (9832)

1 semester credit—10 assignments—1 exam—text price \$50—Hoke

This course includes reading and writing about poetry, nonfiction (such as biography and articles), and drama (*Romeo and Juliet*); course concludes with an open-book final exam project (report on a novel of the student's choice).

Tenth Grade English, Part A (9833)

1 semester credit—10 assignments—1 exam—text price \$55—Hoke

An exploration of encounters with others, ourselves, and our environment. Students relate selected poetry and prose to their own lives and analyze the nature of our language and how it works in communicating experiences and ideas.

Tenth Grade English, Part B (9834)

1 semester credit—10 assignments—1 exam—text price \$55—Hoke

A continuation of Part A.

Eleventh Grade English, Part A (9835)

1 semester credit—9 assignments—1 exam—text price \$53—Hoke

Part A begins with three lessons in language study (fact versus opinion, explaining ideas in paragraphs, and writing a persuasive essay). The last six lessons examine major types of American literature (short stories, poetry, nonfiction, and drama, including the classic play *Our Town*). The open-book final exam (essay) focuses on conflicts such as good versus evil and hope versus despair. The study guide materials emphasize important relationships between ideas in literature and the experiences we face in our lives today.

Courses that require the use of audiocassettes or a computer are marked with these icons:

audio

computer

Eleventh Grade English, Part B (9836)

1 semester credit—9 assignments—1 exam—text price \$53—Hoke

Using the same text as Part A, this second semester focuses on the historical development of American literature and culture. Includes Native American writing, Puritanism, early New English writers (Thoreau), major poets (Emily Dickinson, Walt Whitman), Mark Twain, and modern realistic writers (Jack London, Stephen Crane). The open-book final exam has essay choices about such elements of the American Dream as materialism, individualism, and our democratic ideals. (Prerequisite: Eleventh Grade English, Part A, or equivalent)

Twelfth Grade English, Part A (9847)

1 semester credit—10 assignments—1 exam—text price \$46—Hoke

A thematic approach to the study of Western literature. Topics: ways of looking at literature, the conflict of wills, choices and consequences, and the personal essay. Students will explore these topics in the works of Orwell, Chaucer, de Maupassant, Sophocles, Moliere, Plato, Hardy, Greene, Woolf, Tolstoy, Camus, and others.

Twelfth Grade English, Part B (9848)

1 semester credit—10 assignments—1 exam—text price \$57—Hoke

A continuation of Part A. Topics: appearance versus reality, protest against injustice, and the search for meaning in life. Students explore these topics in the works of Ibsen, Kafka, Auden, Lawrence, Swift, Mansfield, Zola, Conrad, Joyce, and others.

Straight Thinking (9839)

1/2 semester credit—6 assignments—1 exam—no required text—Hoke

An examination of the important differences between clear and unclear thinking. Barriers to clear thinking (assumptions, opinions, and common fallacies) are identified and analyzed, as are language, viewpoint, and experience. Optional use of a cassette recorder to complete the assignments and the final exam. Independent Study will furnish one blank audiocassette.

Youth in Conflict (9840)

1/2 semester credit—6 assignments—1 exam—text price \$20—Hoke

The course examines, through two novels and a musical play, the reactions of young people to violence, war, and the conflicts associated with seeking and finding one's identity. Optional use of a cassette recorder to complete the assignments and the final exam. Independent Study will furnish one blank audiocassette.

Meaning and Self-Discovery in Literature (9841)

1/2 semester credit—6 assignments—1 exam—text price \$27—Hoke

In examining the viewpoints of three authors, this course traces the actions of characters in two novels and a play as they search for, and attempt to define, the meaning of their own lives and of life in general. Optional use of a cassette recorder to complete the assignments and the final exam. Independent Study will furnish one blank audiocassette.

Practical Writing (9842)

1/2 semester credit—6 assignments—1 exam—no required text—Hoke

Provides practical writing experience in important types of everyday communication. Writing assignments: describing scenes, telling a story, explaining ideas in an organized essay, comparing or contrasting ideas, judging or evaluating the worth of something, and persuading. Emphasis on revising drafts encourages writers to improve their writing skills in such areas as standard English usage, sentence structure and subordination, paragraph organization, and essay parts (how to introduce a topic, develop the main ideas, and come to a conclusion).

Advanced Composition (9845)

1 semester credit—12 assignments—no exams—no required text—Hoke

Designed for students who want additional practice in expository writing—offers experience in composing essays of description, persuasion, comparison/contrast, criticism, interpretation, and stylistic imitation. One assignment involves analyzing a newspaper article.

For more information about a course, call 612-624-0000 or 1-800-234-6564 or write for a free copy of the study guide introduction.

Creative Writing (9849)

1 semester credit—10 assignments—no exams—no required text—Hoke

A comprehensive introduction to various types of creative writing. Students explore sources of creative writing and learn how to describe a scene, reveal character, tell a story, and write poetry, a short script, and an article or personal essay. In addition to submitting one example of each of these forms of creative writing, students are required to write a longer final paper.

Contemporary Literature/Contemporary Problems (9843)

1 semester credit—8 assignments—1 exam—text price \$51—Hoke

A presentation of literature with a view to understanding contemporary issues, this course permits students to gain insight into the problems of Indians, blacks, women, ecology, and the future.

The Black American Experience (9924)

1 semester credit—10 assignments—text price \$22—Hoke

Through literature, this course provides an examination of the African heritage and the slave experience of black Americans. Students read short stories, an autobiography, and poetry written by black authors.

The American Dream in American Drama (9846)

1 semester credit—10 assignments—1 exam—text price \$48—Hoke

Examines the notion of America as the "Promised Land" offering wealth, security, equality, and opportunity to all citizens. The American Dream is explored in 11 modern plays (1920–1972). Among the plots and themes are the story of a successful winegrower who needs a bride, African Americans' aspirations, and contemporary alienation.

Basic Strategies for Writing (9850)

1 semester credit—10 assignments—no exams—text price \$27—computer software \$20—Anderson/Briel

computer

A course of five units with two lessons each. The first lesson leads students through pre-writing activities to help them form a starting place and directs them through the organization

of a first draft. The second lesson focuses on revision. Students write personal narratives, descriptive essays, character sketches, persuasive essays, and compare/contrast essays on WAC[®] computer software, obtainable from Independent Study on registration.

Languages

College-level courses are available in the following foreign languages. For information on these courses, see the college *Course Descriptions* section or call or write for a free copy of the study guide introduction.

Danish	Latin
Finnish	Norwegian
French	Russian
German	Spanish
Greek (Classical)	Swedish
Italian	

Dee Buth, M.A., German Teacher, Blaine High School

Adele Donchenko, Ph.D., Associate Professor, Russian and East European Studies, College of Liberal Arts, University of Minnesota
Sue Sorheim, M.A., German Instructor, North Hennepin Community College

Beginning Russian, Part A (9961)

1 semester credit—10 assignments—2 exams—text price \$22—3 audiocassettes \$10.25—Donchenko

audio

Reading, writing, translation, and grammar of the Russian language.

Beginning Russian, Part B (9962)

1 semester credit—10 assignments—2 exams—text price \$22—3 audiocassettes \$10.25—Donchenko

audio

Continuation of Part A. (Prerequisite: Beginning Russian, Part A, or equivalent)

Beginning German, Part A (9963)

1 semester credit—10 assignments—2 exams—text price \$48—8 audiocassettes \$25—Buth and Sorheim

audio

This is the course for you if German is not offered in your high school. Discover how easily you can ask and answer basic questions about

yourself, your friends, and family; count; and tell time in German. Equivalent of the first half-year of German.

Mathematics

David L. Ekstrand, M.A., Mathematics Instructor, St. Thomas Academy, St. Paul

John W. Walther, M.Ed., Math Instructor, South High School, Minneapolis

Elementary Algebra, Part A (9892)

1 semester credit—12 assignments—2 exams—text price \$51—Ekstrand

Designed to acquaint students with basic algebraic notation, sets and variables, properties and operations of real numbers, equations and inequalities in one and two variables, and systems of linear equations and inequalities. For those with either a traditional or modern mathematics background. (Prerequisite: basic arithmetic)

Elementary Algebra, Part B (9893)

1 semester credit—12 assignments—2 exams—text price \$51—Ekstrand

A continuation of Part A. (Prerequisite: Elementary Algebra, Part A, or equivalent)

Plane Geometry, Part A (9887)

1 semester credit—12 assignments—2 exams—text price \$55—Walther

Topics: points, lines and planes, proofs, angles, theorems, parallel lines, proving lines parallel, proving triangles congruent, congruent segments and angles, applying congruent triangles, inequalities, definitions and properties of similar polygons, working with similar triangles, ratios, proportion, and similarity. (Prerequisite: one year of high school elementary algebra or equivalent)

Plane Geometry, Part B (9888)

1 semester credit—13 assignments—2 exams—text price \$55—Walther

A continuation of Part A, this course emphasizes the Pythagorean theorem, circle relationships, areas and volumes, solids, cylinders, cones, spheres, distance, midpoint, slope formulas, coordinate geometry, and geometric constructions and transformations. (Prerequisite: Plane Geometry, Part A, or equivalent)

Higher Algebra, Part A (9885)

1 semester credit—10 assignments—2 exams—text price \$57—Ekstrand

An extensive review of concepts learned in elementary algebra. Further development of linear equations, factoring, fractions, exponents, complex numbers, quadratic equations. Intended for those who want to bring their competence in mathematics to a higher level or those preparing to enter college. (Prerequisite: one year high school elementary algebra or equivalent)

Higher Algebra, Part B (9886)

1 semester credit—10 assignments—2 exams—text price \$57—Ekstrand

Continuation of Part A. Covers functions, radicals, graphical methods, systems of quadratics, determinants, ratio/variation, binomial theorem, factorials, logarithms, and progressions. (Prerequisite: Higher Algebra, Part A, or equivalent)

Science

Kenneth Jeddelloh, Ph.D., Science Teacher, Minneapolis Public Schools

Eric Mischo, B.S., Teaching Specialist, Independent Study

Biology, Part A (9801)

1 semester credit—10 assignments—1 exam—text price \$51—Jeddelloh

Topics include the cell, basic biological processes, comparative anatomy and physiology as they relate to evolution and human biology.

Biology, Part B (9802)

1 semester credit—10 assignments—1 exam—text price \$51—Jeddelloh

A continuation of Part A. General topics include human inheritance, embryology, and evolution; viruses, molds, yeasts, and bacteria and their importance to humans; and green plants and their functions. (Prerequisite: Biology, Part A, or one semester of high school biology)

Physics, Part A (9909)

1 semester credit—9 assignments—4 exams—text price \$52—Mischo

Basic principles and laws of physics: motion,

causes of motion; forces and interactions; work, energy, momentum; kinetic theory of matter; heat transfer; and interaction of heat and work. Students apply these laws and principles in the assignment problems and in 10 experiments, which can be performed using materials found in most homes, e.g., a watch, a measuring device, C clamps, string. (Prerequisite: high school algebra, geometry, and advanced algebra or trigonometry)

Physics, Part B (9910)

1 semester credit—6 assignments—3 exams—text price \$52—lab materials \$28—Mischo

Second part of the physics sequence. Considers the electromagnetic spectrum, the nature of light, geometric optics, diffraction and polarization, electrostatics, D.C. circuits, electromagnetic induction. Seven experiments require materials that can be purchased at electronics or hobby stores. (Prerequisite: high school algebra, geometry, and advanced algebra or trigonometry)

Social Studies

Kathleen Arola, M.A., Lecturer, Psychology, Continuing Education and Extension
Philip Gersmehl, Ph.D., Professor, Geography, University of Minnesota
Melvin A. Hoke, M.A., English Instructor, Minneapolis Public Schools
Fred A. Johnson, Ph.D., J.D., Associate Professor, General College, University of Minnesota
Clay Mering, M.A., Research Assistant, Geography, University of Minnesota

Problems of American Democracy, Part A (9911)

1 semester credit—12 assignments—2 exams—text price \$53—Johnson

A basic introduction to the theory and reality of American social problems; equivalent to the first half of 12th grade social studies. Topics: society and culture, the process of socialization, problems of social mobility, continuity, and change.

Problems of American Democracy, Part B (9912)

1 semester credit—12 assignments—2 exams—text price \$62—Johnson

Equivalent of the second half of 12th grade social studies. Topics include principles and practices of government, the political processes, national government, financing government, and the United States and world affairs.

World Geography, Part A (9926)

1 semester credit—13 assignments—1 exam—text price \$72—Gersmehl/Mering

new

Introduces students to geographic issues in the United States and around the world. Students use maps, tables, and graphs to learn geographic analysis techniques, and develop an awareness of important geographic issues. This course and World Geography, Part B, were written to fulfill the geography requirement of many high schools throughout Minnesota and the United States.

World Geography, Part B (9927)

1 semester credit—13 assignments—1 exam—text price \$72—Gersmehl/Mering

new

A continuation of Part A. (Prerequisite: World Geography, Part A)

General Psychology, Part A (9941)

1 semester credit—10 assignments—1 exam—text price \$43—Hoke

A survey of psychology and psychological methods designed to acquaint students with how psychologists examine and attempt to explain human behavior. Topics: sensation, perception, learning, motivation, behavior.

General Psychology, Part B (9942)

1 semester credit—10 assignments—1 exam—text price \$43—Hoke

A continuation of Part A. Topics include verbal behavior, cognitive processes, frustration and conflict, individual differences, personality, behavior pathology, social psychology, and foundations of behavior. (Prerequisite: General Psychology, Part A)

Project Self-Discovery (9943)

1 semester credit—10 assignments—no exams—no required text—Arola

Through introspective assignments, students gain a better understanding of themselves and their world. Designed to encourage students to grow to see themselves in positive ways, perceive themselves and their world accurately and realistically, and learn to identify with and relate to other people.

Minnesota high school students may be eligible for college enrollment under the Post-Secondary Enrollment Options. See page 98 for information.

Liberal Education Requirements

The University's Liberal Education Requirements for students enrolling on the Twin Cities campus went into effect fall 1994. The following lists include the courses offered by Independent Study that meet these requirements. For additional information, consult a class schedule or a current University bulletin and discuss your options with a CEE counselor (612-625-2500) or your academic adviser.



The Diversified Core Curriculum: Students are required to take courses in each of these four areas: **Physical and Biological Sciences** (three courses), **Arts and Humanities** (three courses), **History and Social Sciences** (three courses), and **Mathematical Thinking** (one course). Students are also required to complete at least six courses from the four designated themes of a liberal education: **cultural diversity, international perspectives, environment, and citizenship and public ethics.**

You may use many of the courses that meet the Liberal Education Requirements in CEE Certificate Programs (see pages 107-116).

Physical and Biological Sciences

Biol 1009—General Biology	Phys 1041—Introductory Physics I
Biol 1101—Heredity, Human Society	Phys 1042—Introductory Physics II
Biol 3051—Environmental Studies	Phys 1104—General Physics
FScN 1612—Principles of Nutrition	Phys 1105—General Physics
Geo 1001—Introduction to Geology	Phys 1106—General Physics
Phys 1001—The Physical World	Psy 3061—Intro. Biological Psychology

Arts and Humanities

Afro 3601—Intro. to African Literature	Engl 3412—Am. Literature, 1850-1900
CSCL 1301—Discourse and Society	Engl 3413—Am. Literature, 1900-1960
Engl 1017—Intro. Modern Poetry	Engl 3455—American Short Story
Engl 1591—Lit. American Minorities	GC 1365—Literatures of the U.S.
Engl 3111—Survey Engl. Lit. I	GC 1371—Reading Short Stories
Engl 3112—Survey Engl. Lit. II	GC 1836—Asian American Literature
Engl 3113—Survey Engl. Lit. III	Phil 1002—Intro. to Philosophy
Engl 3241—Shakespeare I	Phil 1003—Intro. to Ethics
Engl 3242—Shakespeare II	Th 1101—Intro. to the Theatre
Engl 3411—Am. Lit. to 1850	

History and Social Sciences

AmSt 1001—American Cultures I
AmSt 1002—American Cultures II
AmSt 1003—American Cultures III
Anth 1102—Intro. Soc./Cult. Anthro.
CPsy 1301—Intro. Child Psychology
CPsy 3309—Intro. Child Psychology
CPsy 3331—Intro. Social Development
CSCL 1302—Text and Context
Econ 1101—Principles Microeconomics
Econ 1102—Principles Macroeconomics
Engl 3851—The English Language
GC 1235—U.S.: Law in Society
GC 1511—Intro. Modern Business
Geog 3101—Geography U.S. and Canada
Hist 1011—Intro. to World History I
Hist 1012—Intro. to World History II
Hist 1013—Intro. to World History III
Hist 1301—American History I
Hist 1302—American History II
Hist 3151—Engl. Hist. to 17th Cent.
Hist 3152—Engl. Hist 17th Cent.—Present
Hist 3401—Latin Am. History
Hist 3402—Latin Am. History
Hist 3403—Latin Am. History
Jour 1001—Intro. Mass Communications
Pol 1001—Am. Gov't. and Politics
Pol 1041—Contemp. Political Ideologies
Psy 1001—Intro. to Psychology
Psy 3101—Intro. to Personality

Mathematical Thinking

GC 1454—Statistics
Math 1142—Short Calculus
Math 1251—One-Variable Differential
and Integral Calculus I
Phil 1001—Intro. to Logic
Stat 1001—Intro. to Ideas of Statistics

Citizenship and Public Ethics

Biol 1101—Heredity, Human Society
FScN 1102—Tech. Food Processing
GC 1235—U.S.: Law in Society
Pol 1001—Am. Gov't. and Politics
Pol 1041—Contemporary Political
Ideologies
Pol 3309—Judicial Process
Pol 5737—American Political Parties

Cultural Diversity

AmSt 1001—American Cultures I
AmSt 1002—American Cultures II
AmSt 1003—American Cultures III
Engl 1591—Lit. American Minorities
FSoS 5500—Racial/Ethnic Diversity
in Families
GC 1365—Literatures of the U.S.
GC 1836—Asian American Literature
Geog 3101—Geography U.S. and Canada
Hist 1301—American History I
Hist 1302—American History II
Hist 3871—Am. Indian History I
Hist 3872—Am. Indian History II
Th 1101—Intro. to the Theatre

Environment

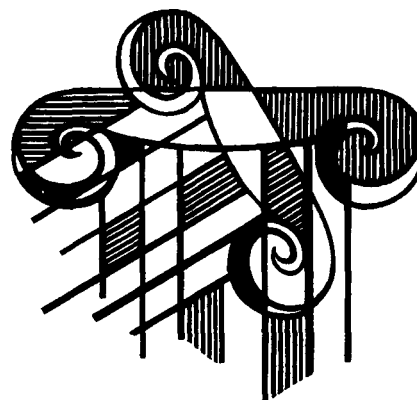
Anth 1101—Human Origins
Biol 3051—Environmental Studies
FR 1201—Conservation Nat. Resources
Geo 1001—Introduction to Geology

International Perspectives

Afro 3601—Intro. African Literature
Anth 1102—Intro. Soc./Cult. Anthro.
Hist 1011—Intro. to World History I
Hist 1012—Intro. to World History II
Hist 1013—Intro. to World History III
Hist 3881—Hist. Am. Foreign Relations
Hist 3882—Hist. Am. Foreign Relations
Hist 3883—20th Cent. Am. Foreign Relations
Pol 5471—Politics of Russia and the
Commonwealth of Ind. States
RelS 1031—Religions of South Asia

CEE/UC Certificate Programs

Continuing Education and Extension/ University College (CEE/UC) offers several certificate programs consisting of degree-credit courses or a combination of degree and certificate courses. Students entering these programs should have adequate educational preparation or other experience that qualifies them to work with college-level material. Certificate-credit courses represent an accelerated and specialized approach to subject matter, and are not transferable to a degree program. Degree-credit courses may be used toward degrees and certificates.



Some certificate programs are regarded by business and industry as valuable professional and technical preparation for employment and promotion. Students are encouraged to consult with employers regarding the usefulness of a certificate in seeking new employment or possible promotional opportunities. With careful planning, some certificates can be a stepping-stone to a degree program. If a degree is your goal, contact CEE Counseling (612-625-2500) for assistance. Work on most certificates may be done through a combination of Independent Study, Extension Classes, day school classes, or summer session classes.

Degree and certificate programs **may change or be discontinued**. The University will make every reasonable effort to assist admitted students in completing a program.

Students may transfer credits from other accredited institutions on approval, although a minimum of 25 percent of the credits required for any certificate must be earned through the University of Minnesota, Twin Cities campus. The residency requirement cannot be met by repeating courses at the University already successfully completed at another institution. Courses need not be taken in order except as prerequisites make it necessary.

Certificate requirements are subject to modification. There is no time limit on the use of credits. Students may not be enrolled in more than three certificate programs at one time. Students interested in taking courses toward certificate programs on the S-N grading system should first consult a CEE adviser (Internet, ceeadv@mail.cee.umn.edu; telephone, 625-2500).

Application—Students can obtain a copy of Certificate Program Information, with an application form, by contacting CEE Counseling, 612-625-2500, 314 Nolte Center. A nonrefundable \$20 application fee (Visa and MasterCard accepted) will be required with all applications. Students are urged to consult with an adviser early in their programs—before completing an admission application—regarding application time, admissibility to a certificate program, residency requirements, and specific admission information for each certificate.

Admission criteria vary among certificate programs. Admission decisions are based on previous college performance (a better than C average is required), educational objectives, and patterns of coursework completed. Students will be asked to include a written statement outlining how the certificate program will help them meet their educational goals. Students will be notified of admission status by mail approximately three weeks after all transcripts and application materials are received.

Completion—A student nearing completion of the required work who expects to receive a certificate must file a Certificate Completion form when registering for his or her last course. A \$20 nonrefundable certificate fee (Visa and MasterCard accepted) is required at the time the Certificate Completion form is filed. There is a quarterly deadline for filing this form. When a student completes a specified program with at least a C (2.00) overall grade average (including a 2.00 grade point average in University of Minnesota coursework), the student is awarded a certificate. Certificates are awarded by Continuing Education and Extension/University College, not by individual colleges of the University of Minnesota. Certificates are dated and awarded each quarter of the academic year.

All CEE/UC certificates may be earned with honors. A student earning a 3.00 to 3.49 grade point average in University of Minnesota credits within the certificate will be awarded a certificate “with distinction.” A student earning a 3.50 grade point average, or better, in University credits within the certificate will be awarded a certificate “with high distinction.” At least 60 percent of the requirements for a certificate with honors must be earned at the University and must be taken on the A-F grading system. Colleges at the University retain the right to determine honors requirements for a degree; earning a certificate with honors does not guarantee admission into a college’s honors program.

Academic Progress—CEE/UC will determine academic progress for students enrolled in certificate programs. In addition, students receiving financial aid through the Office of Scholarships and Financial Aid will be held to a similar, but possibly different standard. See the *How to Register* section, *Academic Progress*.

For information about certificate programs, including transfer of credits, contact CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Drive SE, Minneapolis, MN 55455; Internet, ceeadv@mail.cee.umn.edu; telephone, 612-625-2500.

Courses or course sequences now available or soon to be available through Independent Study are followed by an asterisk (*).

The Liberal Arts Certificate and the Science and Quantitative Methods Certificate can be earned entirely through Independent Study. The other certificates can be partially completed through Independent Study, but require additional credits from day school classes, Extension Classes, or approved transfer credits.

Liberal Arts Certificate (45 credits)

The Liberal Arts Certificate program offers students an introduction to a liberal arts education and is equivalent to one year of University study. The certificate can constitute the freshman year of a degree program in liberal arts or business, if carefully planned. A minimum of **50 percent** of all coursework (23 credits) must be taken on the A-F grading system. Students transferring credits to this program from other accredited institutions must take a minimum of 12 credits at the University.

English Requirement (5-8 credits)

Comp 1011—Writing Practice I* or equivalent

Core Requirements (32 credits) Eight credits in each of the following groups:

- Group A—Language, Logic, Mathematics, and the Study of Argument
- Group B—Physical and Biological Universe
- Group C—Individual and Society
- Group D—Literary and Artistic Expression

Electives: Additional liberal arts courses are required for a total of 45 credits for the certificate. Before taking courses applicable to this certificate, students should obtain a copy of CLA courses offered through CEE/UC that meet the liberal education requirements. **If you are pursuing a liberal arts degree concurrently, it is important to obtain regular advising to assure that the courses you choose for the certificate will also apply toward your degree.** Contact CEE Counseling, University of Minnesota, 314 Nolte Center, 315 Pillsbury Dr. SE, Minneapolis, MN 55455; Internet, ceeadv@mail.cee.umn.edu; telephone, 612-625-2500.

Science and Quantitative Methods Certificate (45 credits)

This certificate is designed to provide students with a basic foundation of knowledge in sciences and quantitative methods. Through careful course selection, this certificate can be adapted to suit the needs of students seeking a variety of majors. It is particularly appropriate for those who want to pursue advanced study in health, agricultural, or general sciences or for students who may, for personal or professional reasons, wish to enhance their quantitative skills. All courses carry college credit and are applicable to a baccalaureate degree in CLA, CBS, Agriculture, and all of the pre-health science areas at the University of Minnesota. This certificate may also address the needs of students already holding baccalaureate degrees but lacking the necessary science component for admission to Medical School, the Ophthalmology Technician Certificate, or the Cardiovascular Perfusion Technology Certificate.

A minimum of 50 percent of all coursework must be taken on the A-F grading system. Students transferring credits to this program from other accredited institutions must take a minimum of 12 credits at the University. Early planning with a CEE adviser is strongly encouraged to assure that coursework will satisfy requirements for completion of the program.

Core Requirements: (21-25 credits)

- Comp 1011*: 5 credits
- Natural and Physical Sciences: 8-10 credits
- Quantitative Methods: 8-10 credits

Electives to make a minimum of 45 credits, selected from the following areas:

- | | |
|----------------------------------|--|
| Astronomy | Logic |
| Biology | Mathematics |
| Biochemistry | Medical Terminology courses |
| Biostatistics | Microbiology |
| Cell Biology and Neuroanatomy | Operations Management Sciences |
| Chemistry | Plant Biology |
| Composition** | Physics |
| Ecology, Evolution, and Behavior | Physiology |
| Food Science and Nutrition | Psychology** |
| Genetics and Cell Biology | Public Health** |
| Geology and Geophysics | Rhetoric** (courses in technical writing and
speech only) |
| Health Science Unit courses | Scientific Reasoning |
| History of Medicine | Speech** |
| History of Science | |

Information and Decision
Sciences
Kinesiology

Statistics (and Social Science statistics
courses
Veterinary Pathobiology

**Related coursework from these departments may be applied to the certificate, but must be preapproved by the certificate adviser.

Additional science courses that apply toward a degree plan may also be acceptable (consult with a CEE adviser, 612-625-2500).

Undergraduate Development Certificates in Accounting

The accounting certificates can be of value to individuals in some accounting positions in industry, to management personnel who are required to deal with accounting data, and to business people who need a basic understanding of the elementary principles of accounting and corporate finance. The Level II certificate provides a background for additional study in preparation for the Certified Public Accountant and Certified Management Accountant examinations. Students planning to sit for the CPA, CMA, or CIA exams should have a bachelor's degree and are encouraged to contact the following organizations to obtain information about the specific requirements needed to take the exams and for licensing: CPA—MN State Board of Accountancy at 612-296-7937; CMA—Institute of Certified Management Accountants at 800-638-4427. Students who work toward the certificate may have already completed a bachelor's degree. Students who do not have a bachelor's degree should consider the accounting program in the Bachelor of Science in Business degree as a preferable alternative.

Admission to Undergraduate Development Certificates in Accounting—To be considered for admission to these programs, students must have completed the equivalent of a minimum of 90 quarter college credits with a minimum of a B- grade average. Students who have completed a bachelor's degree will be individually reviewed, with particular emphasis on the last 90 credits.

Note—Upper division (3xxx- or 5xxx-level) management courses in CEE/UC are taught with the expectation that, in addition to having completed all premanagement coursework, students either will have earned a B- grade average in 90 credits of college-level work or will have already completed a bachelor's degree.

Level I (60-64 credits)

Students transferring credits to this program from other accredited institutions must take a minimum of 16 credits in accounting at the University.

Core Requirements

Acct 1050—Introduction to Financial Reporting*

Acct 3001—Introduction to Management Accounting*

Acct 3101—Intermediate Financial Reporting

Acct 3201—Intermediate Management Accounting

Acct 5102—Advanced Financial Reporting I

Comp 1011—Writing Practice I*

Comp 3022—Critical Reading and Writing for Management*

Econ 1101, 1102—Principles of Microeconomics and Macroeconomics*

IDSc 1010—Fundamentals of Information Development and Use

IDSc 3030—Information Systems and Information Management

Math 1111—College Algebra and Analytic Geometry*

Math 1142—Short Calculus* or Math 1251—One-Variable Differential and Integral Calculus I*

OMS 1020—Data Analysis and Statistical Inference for Managers

Level II (88-92 credits)

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

Core Requirements (72-80 credits)

Acct 1050—Introduction to Financial Reporting*
 Acct 3001—Introduction to Management Accounting*
 Acct 3101—Intermediate Financial Reporting
 Acct 3201—Intermediate Management Accounting
 Acct 5102—Advanced Financial Reporting I
 Comp 1011—Writing Practice I*
 Comp 3022—Critical Reading and Writing for Management*
 Econ 1101, 1102—Principles of Microeconomics and Macroeconomics*
 IR 3002—Personnel and Industrial Relations
 IDSc 1010—Fundamentals of Information Development and Use
 IDSc 3030—Information Systems and Information Management
 Math 1111—College Algebra and Analytic Geometry*
 Math 1142—Short Calculus* or Math 1251—One-Variable Differential and Integral Calculus I*
 OMS 1020—Data Analysis and Statistical Inference for Managers
 12 credits of upper division accounting electives

Electives (12 credits)

BFin 3000—Finance Fundamentals*
 BGS 3002—Business and Society*
 BGS 3004—International Business*
 BLaw 3058—Introduction to Law, the Law of Contracts and Sales Contracts*
 Econ 3105—Managerial Economics
 Ins 5100—Risk Management and Insurance
 LM 3000—Introduction to Logistics Management
 Mgmt 3001—Fundamentals of Management*
 Mgmt 3004—Business Policy: Strategy Formulation and Implementation*
 Mktg 3000—Principles of Marketing*
 OMS 3000—Introduction to Operations Management

Undergraduate Development Certificates in Business Administration

The Undergraduate Development Certificates in Business Administration have been approved by the Carlson School of Management and arranged under the supervision of its faculty. They present integrated, high-quality, university-level programs of shorter length and scope than four-year degree programs. They are designed for students who need an understanding of the principles and theories of business administration, and for those who want training or an opportunity for advancement in some specific field of business.

Students admitted to the Undergraduate Development Certificates in Business Administration programs are usually working toward a business degree or have already completed a bachelor's degree in another area. It is possible for a student to move from a course of study for a certificate into a planned program leading to a business degree. Those who contemplate such a long-range objective should consult an adviser at 612-625-2500, who can monitor their progress carefully.

Admission to Undergraduate Development Certificates in Business Administration—To be considered for admission, students must have completed the equivalent of a minimum of 90 quarter college credits with a minimum of a B- grade average. Students who have completed a bachelor's degree will be individually reviewed, with particular emphasis on the last 90 credits.

Note—Upper division (3xxx- or 5xxx-level) management courses in CEE/UC are taught with the expectation that, in addition to having completed all premanagement coursework, students either will have earned a B- grade average in 90 credits of college-level work or will have already completed a bachelor's degree.

Level I Business Administration Certificate (49-52 credits)

This certificate represents the equivalent of one academic year of study in business. It offers a background in the basic fields of business administration. All the credits received in completing the Level I Certificate are credited toward a Level II Certificate and represent half of its required work load.

All courses must be taken on the A-F grading system. Students transferring credits from other accredited institutions to this program must take a minimum of 12 credits in business courses from the Core Requirements at the University.

Premanagement Requirement (37-40 credits)

Acct 1050—Introduction to Financial Reporting*

Comp 1011—Writing Practice I*

Econ 1101, 1102—Principles of Microeconomics and Macroeconomics*

IDSc 1010—Fundamentals of Information Development and Use

Math 1111—College Algebra and Analytic Geometry*

OMS 1020—Data Analysis and Statistical Inference for Managers

Psy 1001—Introduction to Psychology*

Core Requirements (12 credits) At least three courses selected from the following to total 12 credits:

Acct 3001—Introduction to Management Accounting*

BFin 3000—Finance Fundamentals*

BGS 3002—Business and Society*

BGS 3004—International Business*

BLaw 3058—Introduction to Law, the Law of Contracts and Sales Contracts*

Econ 3105—Managerial Economics

IR 3002—Personnel and Industrial Relations

IDSc 3030—Information Systems and Information Management

Ins 5100—Risk Management and Insurance

LM 3000—Introduction to Logistics Management

Mgmt 3001—Fundamentals of Management*

Mgmt 3004—Business Policy: Strategy Formulation and Implementation*

Mktg 3000—Principles of Marketing*

Math 1142—Short Calculus* or Math 1251—One-Variable Differential and Integral Calculus I*

Level II Business Administration Certificate (90 credits)

The Level II Business Administration Certificate is a continuation of the Level I Certificate. The completion of the certificate approximates the second and third years of a four-year degree program, with emphasis on the basic principles and theories of business administration.

Important Note—Students who are contemplating continuing toward a degree from the Carlson School of Management should consult an adviser **before** they begin working toward the Level II Business Administration Certificate, and should choose electives that could become part of the degree program. Contact CEE Counseling (612-625-2500) for a list of the premanagement courses required for the Carlson School of Management.

Only **nonbusiness electives** may be taken on the S-N grading system. Students transferring credits to this program from other accredited institutions must take a minimum of 24 credits in business courses (not including the premanagement requirement) at the University.

Premanagement Requirement (42-45 credits)

Acct 1050—Introduction to Financial Reporting*

Comp 1011—Writing Practice I*

Econ 1101, 1102—Principles of Microeconomics and Macroeconomics*

IDSc 1010—Fundamentals of Information Development and Use

Math 1111—College Algebra and Analytic Geometry*

Math 1142—Short Calculus* or Math 1251—One-Variable Differential and Integral Calculus I*

OMS 1020—Data Analysis and Statistical Inference for Managers

Psy 1001—Introduction to Psychology*

Core Requirements (24 credits) At least six courses selected from the following to total 24 credits:

Acct 3001—Introduction to Management Accounting*

BFin 3000—Finance Fundamentals*

BGS 3002—Business and Society*

BGS 3004—International Business*

BLaw 3058—Introduction to Law, the Law of Contracts and Sales Contracts*

Econ 3105—Managerial Economics

IR 3002—Personnel and Industrial Relations

IDSc 3030—Information Systems and Information Management

Ins 5100—Risk Management and Insurance

LM 3000—Introduction to Logistics

Mgmt 3001—Fundamentals of Management*

Mgmt 3004—Business Policy: Strategy Formulation and Implementation*

Mktg 3000—Principles of Marketing*

OMS 3000—Introduction to Operations Management

Electives in the Carlson School of Management: At least 16 additional credits in upper division Carlson School courses. These should be selected in consultation with a CEE adviser.

Other Electives: Satisfactory completion of premanagement degree requirements, for a total of 90 credits.

**Credit and Financial
Management
Certificate
(63–66 credits)**

The Credit and Financial Management Certificate program was developed cooperatively by Continuing Education and Extension/University College, the Carlson School of Management, and the National Association of Credit Management. The program prepares students for careers in trade credit management, loan management, and financial management.

For this certificate, **all** courses must be taken on the A-F grading system, with the exception of Composition and Speech, which may be taken on the S-N grading system. Students transferring credits to this program from other accredited institutions must take a minimum of 16 credits at the University.

Admission to the Credit and Financial Management Certificate—To be considered for admission, students must have completed the equivalent of a minimum of 90 quarter college credits with a minimum of a B- grade average. Students who have completed a bachelor's degree will be individually reviewed, with particular emphasis on the last 90 credits.

Not all of the courses required for the three levels of National Association of Credit Management (NACM) certification are available at the University of Minnesota. Persons interested in these awards should contact the NACM, City Place Building, Suite 600, 730 Hennepin Ave., Minneapolis, MN 55403, 612-341-9624, for further information on obtaining the additional coursework elsewhere.

Note—Upper division (3xxx- or 5xxx-level) management courses in CEE/UC are taught with the expectation that, in addition to having completed all premanagement coursework, students either will have earned a B- grade average in 90 credits of college-level work or will have already completed a bachelor's degree.

For more information about working toward this certificate, contact CEE Counseling at 612-625-2500.

Core Requirements (55–58 credits)

Acct 1050—Introduction to Financial Reporting*
Acct 3001—Introduction to Management Accounting*
Acct 3101—Intermediate Financial Reporting
BFin 3000—Finance Fundamentals*
BLaw 3058, 3078, 3088—Business Law series*
Comp 1011—Writing Practice I*
Econ 1101, 1102—Principles of Microeconomics and Macroeconomics*
IR 3002—Personnel and Industrial Relations
Mgmt 3002—Psychology of Management*
Mktg 3000—Principles of Marketing*
Spch 1101—Fundamentals of Speech Communication: Oral Communication

Electives (8 credits)

Acct 3201—Intermediate Management Accounting
BFin 3100—Financial Management
BFin 3601—Financial Management of Depository Institutions
Econ 3701/5721—Money and Banking*
GC 1275—Consumer Transactions and the Law
Ins 5100—Risk Management and Insurance
LM 3000—Introduction to Logistics Management
Mgmt 3001—Fundamentals of Management*

Industrial Relations Certificate (45 credits)

The Industrial Relations Certificate was developed by the Industrial Relations Center of the Carlson School of Management. It provides technical training in industrial relations and in the use of specialist techniques. Advanced professional training in industrial relations is available only through the day and evening M.A. and Ph.D. programs.

Students may use S-N grading for Psy 3801 and nonbusiness electives, up to a **maximum of 12 credits** toward the certificate. Students transferring credits to this program from other accredited institutions must take a minimum of 12 credits in Industrial Relations at the University.

Note—Upper division (3xxx- or 5xxx-level) management courses in CEE/UC are taught with the expectation that, in addition to having completed all premanagement coursework, students either will have earned a B- grade average in 90 credits of college-level work or will have already completed a bachelor's degree. Courses at the 3xxx-level are primarily for juniors and seniors. Courses at the 5xxx-level are primarily for juniors, seniors, and graduate students.

Core Requirements (33 credits)

Econ 1101, 1102—Principles of Microeconomics and Macroeconomics*
 IR 3002—Personnel and Industrial Relations
 IR 3007—Collective Bargaining and Labor Relations*
 IR 3010—The Individual and the Organization, or Psy 5702—Psychology of Individual Behavior in Organizations
 Psy 1001—Introduction to Psychology*
 Psy 3801—Introduction to Statistical Methods, or approved substitute
 Soc 1001—Introduction to Sociology

Electives (12 credits)

Econ 3501 or 5531—Labor Economics
 Econ 5534—Economic Security
 Econ 5561—Wages and Employment
 IR 0001—Supervision I
 IR 3000—Topics in Industrial Relations*
 IR 5000—Topics in Industrial Relations
 any other 3xxx- or 5xxx-level IR course
 IDSc 3030—Information Systems and Information Management
 Mgmt 3001—Fundamentals of Management*
 OMS 5160—Deterministic Modeling and Optimization
 Psy 3011—Introduction to Psychology of Learning
 Psy 3135—Introduction to Individual Differences
 Psy 3201—Introduction to Social Psychology
 Psy 5045—Psychology of Motivation
 Psy 5501—Vocational Psychology
 Psy 5701—Personnel and Industrial Psychology
 Psy 5703—Psychology of Organizational Training and Development
 Psy 5705—Work Motivation
 Soc 5201—Introduction to Social Psychology*
 Soc 5411—Formal Organizations

Undergraduate Development Certificate (UDC) Series

Developed with the Institute of Technology, the UDC series provides a plan for continuing education in particular disciplines and recognizes completion of an educational program indicative of increasing levels of technical capability. With departmental approval, degree-credit courses offered in certificate programs may be applied toward a subsequent baccalaureate degree. This requires early contact with a CEE adviser (612-625-2500) to discuss admission to the Institute of Technology.

The UDC in Engineering and Science—45 Credits (described below) is the initial required program in the UDC series. It indicates familiarity with basic science and engineering topics and is equivalent to the first year of college study. After completing the UDC in Engineering and Science—45 Credits, students can continue in particular disciplines through the UDC—90 Credits or the UDC—135 Credits. (The UDC—135 Credits is only available in Electrical Engineering.)

Students interested in a listing of the Undergraduate Development Certificates or additional information should contact CEE Counseling at 612-625-2500.

Undergraduate Development Certificate in Engineering and Science—45 credits

The UDC in Engineering and Science—45 Credits provides students with the fundamentals of mathematics, physics, and broad technical communication skills that enable them to handle support assignments in any engineering field. In addition, it gives them back-

ground for more specialized or advanced study as either an engineer or an engineering technician. All courses in the UDC in Engineering and Science—45 Credits carry degree credit and are applicable to a baccalaureate degree.

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

Prerequisites: High school graduate or equivalent; two years of algebra and two years of geometry, including trigonometry.

Core Requirements (34-37 credits)

Comp 1011—Writing Practice I*

Chem 1001 or Chem 1051—Chemical Principles I

Math 1251 (formerly 1211)—One-Variable Differential and Integral Calculus I*

Math 1252 (formerly 1221)—One-Variable Differential and Integral Calculus II*

Math 1261 (formerly 1241)—Calculus III*

ME 1025—Engineering Graphics, or CSci 3101—A Fortran Introduction to Computer Programming, or CSci 3102—A Pascal Introduction to Computer Programming, or CSci 3322—Algorithms and Data Structures II, or CSci 3113—An Introduction to Programming in C

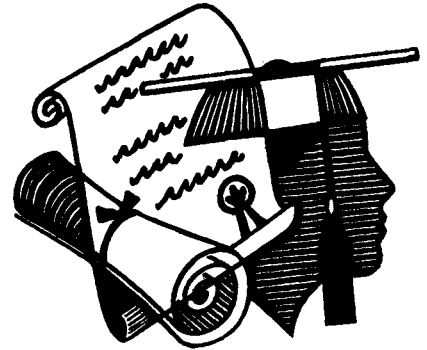
Phys 1251 or 1271/75, Phys 1252 or 1281/85—General Physics and Lab

Electives: Courses from nontechnical electives for a total of 45 credits. Nontechnical electives may be chosen from the following fields: anthropology, biological sciences, botany, classics, economics, geography, history, humanities, languages (except scientific language courses), literature, music theory, philosophy, political science, psychology, religion, social science, sociology, speech, zoology, and others. Students pursuing an I.T. degree should follow the liberal education requirements as described in the *Institute of Technology Bulletin* (call 612-625-2008 to request a copy).

University Degrees and Programs

Through Independent Study, it is possible to earn credits that can be used in a variety of degrees and special programs at the University. However, there are limitations on the use of Independent Study credits in degree programs in certain departments or schools.

If you want to apply credits earned through Independent Study to a University degree program, you are urged to contact an academic adviser in CEE Counseling (612-625-2500 or via Internet at ceeadv@mail.cee.umn.edu) or your college office before enrolling.



It is important to plan coursework and follow University procedures when working on a degree. If you have never been admitted to the University but want to work toward a University degree, contact CEE Counseling (612-625-2500) early in your planning. It is also essential to read the official bulletin of the college to which you want to be admitted. You can obtain college bulletins by writing Admissions, University of Minnesota, 240 Williamson Hall, 231 Pillsbury Dr. SE, Minneapolis, MN 55455, or calling 612-625-2008.

Academic progress for students enrolled in degree-granting programs will be monitored by their college offices. Students receiving financial aid through the Office of Scholarships and Financial Aid will be held to a similar, but possibly different standard. See the *How to Register* section, *Academic Progress*.

Continuing Education and Extension/ University College

314 Nolte Center
Minneapolis campus

In partnership with community colleges in the Twin Cities area, Continuing Education and Extension/University College offers two bachelor's degrees.

The **Bachelor of Information Networking (BIN)** is offered in partnership with North Hennepin Community College in Brooklyn Park. This degree is an interdisciplinary blend of computer science, management and information systems, engineering, and liberal arts, which prepares students for careers in information and networking technology. Designed for the working adult, this program is available evenings and other convenient times, and will offer options through Independent Study in the future. For more information, contact a BIN adviser (Internet, ubin@mail.cee.umn.edu; telephone, 612-625-2500).

The **Bachelor of Applied Business (BAB)** degree is offered in partnership with Inver Hills Community College in Inver Grove Heights. This practitioner-oriented business degree is designed for working adults and is available evenings and partially through Independent Study. The BAB curriculum addresses real-world business issues and relates workplace skills to the student experience. For more information, contact a BAB adviser (telephone, 612-625-2500; Internet, ubab@mail.cee.umn.edu).

College of Education and Human Development

110 Wulling Hall
Minneapolis campus

There is a wide variety of programs offered in the College of Education and Human Development, and some Independent Study courses can be used toward these programs. Students can use the general education requirements listed under the College of Liberal Arts as a guide in completing many of the preprofessional requirements. Some Independent Study courses in education are also acceptable in these programs. For more information, write to the College of Education and Human Development, 110 Wulling Hall, Minneapolis, MN 55455, or call 612-625-6501.

Teacher's Certificate—Most Independent Study courses can be used in the acquisition and renewal of teacher's certificates. However, Independent Study **cannot evaluate teaching or education experience for a certificate or recommend courses.** Questions concerning teacher certifications should be directed to the State Department of Education or a similar agency (in Minnesota—Personnel Licensing, Capitol Square Building, 550 Cedar St., St. Paul, MN 55101; 612-296-2046).

Graduate School

316 Johnston Hall
Minneapolis campus

Credits earned through most Independent Study courses are not accepted for graduate credit in the University of Minnesota Graduate School. Specific Group Independent Study courses, at the 5xxx level, carry graduate credit (see the *Technology-Enhanced Courses* section). Independent Study courses may be used to satisfy undergraduate prerequisites for Graduate School admission, to complete the graduate language requirement, or to acquire additional background in particular subject areas.

Institute of Technology

105 Lind Hall
Minneapolis campus

The Institute of Technology grants degrees in several fields of engineering and science. In addition to required mathematics and science courses, the Institute of Technology requires liberal education courses as outlined in the *Institute of Technology Bulletin*. To order, call 612-625-2008. Independent Study courses may be used to satisfy the liberal education requirements, as well as some of the technical courses. With careful planning, it is possible to complete approximately 25 percent of an I.T. degree through Independent Study. Assistance in planning a course of study and an evaluation of transfer credits is available by appointment at CEE Counseling, 612-625-2500.

The Institute of Technology is planning to offer a **Bachelor of Electrical Engineering**, known as the BEEDE, through a program of distance education administered by Independent Study. This degree program is designed for corporate employees and other working adults. The first group of students will begin taking courses fall 1996; interested adults should plan to complete the program prerequisites by spring 1996. If you would like a brochure describing the BEEDE, call 612-624-1691.

Carlson School of Management

290 Hubert H.
Humphrey Center
Minneapolis campus

Approximately half of the course requirements for the Bachelor of Science in Business (B.S.B.) are available through Independent Study. The Carlson School of Management will accept a maximum of 17 credits of 3xxx- and 5xxx-level business coursework completed through Independent Study toward the B.S.B. degree. Interested students should arrange for early consultation by contacting CEE Counseling at 612-625-2500.

Both the accounting and the general management programs are outlined in the *Carlson School of Management Bulletin*. To order, call 612-625-2008. For a list of the premanagement and management courses offered through Independent Study that meet Carlson School of Management requirements, write or call CEE Counseling. A copy of "Pursuing a Bachelor's Degree through Continuing Education and Extension" may also be obtained through CEE Counseling. **Note**—Students taking Carlson School of Manage-

ment upper division undergraduate (3xxx- or 5xxx-level) courses are expected to have completed the equivalent of 90 quarter credits with a minimum of a B- grade average.

College of Liberal Arts

214 Johnston Hall
Minneapolis campus

The *College of Liberal Arts Bulletin* (1994–96) is essential for students planning to earn B.A., B.S., B.F.A., B.M., or B.I.S. degrees. Contact CEE Counseling for a list of Independent Study courses that can be used to satisfy liberal education requirements or for further information on any of the CLA programs. With careful planning, it is possible to complete approximately half of a CLA degree through Independent Study.

Bachelor of Arts degree candidates must complete a minimum of 180 acceptable credits, 72 in 3xxx- and 5xxx-level courses (with a minimum of 45 credits graded A, B, or C in CLA courses). No more than 12 credits of D-graded work may be applied toward the 180-credit degree requirement. Students also must satisfy the English composition, second language, and liberal education requirements. B.A. candidates must complete a major sequence in the field of their choice and at least 28 credits in 3xxx- and 5xxx-level courses from areas outside their majors. (Interdepartmental majors are exempt from the 28-credit requirement.)

The **Bachelor of Science** degree is offered in CLA in six areas: Child Psychology, Speech and Hearing Science, Economics, Geography, Sociology, and Urban Studies. Its requirements are substantially those of the B.A. program except that the second language requirement is not included (except in Geography), and the major may be more extensive and concentrated. For further information, contact CEE Counseling at 612-625-2500.

The **Bachelor of Individualized Studies** degree is offered for students who want to propose an individualized program of studies based on personal academic objectives. Proposals must be evaluated and approved by at least two faculty advisers. Candidates for the Bachelor of Individualized Studies degree must complete a minimum of 180 acceptable credits, 75 of which must be in 3xxx- or 5xxx-level courses in the areas of concentration. For further information, contact CEE Counseling at 612-625-2500.

University College

107 Armory
Minneapolis campus

University College offers two bachelor's degree programs that enable students in Minnesota to design their own bachelor of arts or bachelor of science degree and to incorporate large amounts of learning done through Independent Study. Information is available from the college office or from the appropriate program office (see below). The advising offices for these programs are on the second floor of a building without an elevator. Indicate to the staff if this poses an accessibility problem so that an alternative meeting location can be arranged.

Inter-College Program (ICP) allows students to design an intercollegiate or interdisciplinary program suited to their individual objectives. ICP is appropriate for students who have clearly defined academic goals and discover they cannot achieve those goals without an inter-college curriculum. A student's ICP plan is drawn up with guidance and approval from ICP program advisers and designated faculty advisers. The degree program may include two or three areas of concentration, or may integrate courses from two or more University colleges into a cohesive theme. Depending on how a student fulfills liberal education requirements, ICP leads to either a bachelor of arts or a bachelor of science degree. With careful planning, it is possible to complete a baccalaureate degree in the ICP through Independent Study if you have already completed two or three years of college or have about 120–130 credits. The limitation to completing an ICP degree via Independent Study is the number of courses available in appropriate departments.

To be considered for admission to ICP, a student must have a 2.00 grade-point average; completed at least 80 credits of college work (minimum of 15 credits from the University of Minnesota and at least 9 credits of upper division work); completed designated prerequisites and/or meet grade-point average requirements for areas with concentration or collegiate

grade-point restrictions; and prepared an approved ICP degree plan and goal statement. The **Program for Individualized Learning** serves students with clear educational goals who want to design and carry out individualized B.A. or B.S. degree programs. Students tend to select this program because they value the freedom to make significant choices about what and how they learn, they have experiences they can use as foundations for further learning, and they want to use a variety of educational resources at the University and in the community.

Students are admitted on the basis of evidence that they have the attributes and academic skills needed to pursue a self-directed degree program, e.g., skills in writing, curriculum design, and educational planning. A degree program can incorporate a variety of learning resources, including University classes, Independent Study courses, and self-designed projects. Knowledge gained from independent learning prior to admission may be applied if it can be demonstrated and evaluated as college-level learning.

Program for Individualized Learning students design their degree programs around a set of standards called graduation criteria. The criteria combine learning in a major area of study with learning in the liberal arts. Students pursue programs in a wide variety of fields, often studying in many disciplines and creating new and innovative areas of study. Examples of recent degree programs include International Business, Youth Studies, Reconstruction Archaeology, Irish Studies, and Folk Music and Folklore. For more information about the Program for Individualized Learning, students should read the *University College Bulletin* and arrange to attend an information session.

For further information, contact:

Inter-College Program, 107 Armory, 15 Church St. SE, Minneapolis, MN 55455; telephone, 612-624-2004; fax, 612-624-8253

Program for Individualized Learning, 107 Armory, 15 Church St. SE, Minneapolis, MN 55455; telephone, 612-624-4020; fax, 612-624-8253 (fax)

Health Care Programs

ISP for Health Care Administrators/Long Term Care Administration

Independent Study administers several special programs in the public health care field.

Independent Study Program (ISP)—Through combined correspondence and on-campus study, ISP offers educational opportunities for employed health care executives to link their practice to academic principles. A two-year Credential of Management Studies, a three-year Credential of Advanced Studies in Health Services Administration, and master's options (MPH/MHA) are offered. Vernon E. Weckwerth, Ph.D., is the director. ISP program areas include Ambulatory Care Administration, Hospital Administration, Patient Care Administration, and Special Interest Groups in Long Term Care/Home Health Care/Nursing Home Administration and Mental Health/Chemical Dependency Administration. Qualified individuals are those currently working in executive positions in health care institutions. Applications are accepted prior to the two-week on-campus session in July. For more information, call or write: ISP Executive Study Program, 420 Delaware St. SE, Room A-269 Box 97 Mayo, Minneapolis, MN 55455-0381; telephone, 612-624-1411; fax, 612-626-1186.

Long Term Care—Independent Study also administers courses for students seeking to qualify for nursing home administrator licensure in Minnesota. These courses are offered through the Center for Long Term Care Administration. They are a combination of on-campus seminars and correspondence study. The 30-credit sequence is designed to help students fulfill course content requirements specified by Minnesota licensure regulations. For more information, call or write: Diane McClellan, Center for Long Term Care Administration, 420 Delaware St. SE, D383 Mayo, Box 97, Minneapolis, MN 55455; telephone, 612-624-5159; fax, 612-624-3972.



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UNIVERSITY OF MINNESOTA

Continuing Education and Extension
Department of Independent Study

45 Wesbrook Hall
77 Pleasant Street SE
Minneapolis, MN 55455
612-624-0000
800-234-6564
Fax: 612-626-7900

Registration Form—Please Print Using Ink

Information in this section 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 the purpose of record keeping, affirmative action, and reporting.

Social Security Number _____ *U of MN ID # _____

*Last Name _____ *Middle Initial _____

*First Name _____ Title (Mr Ms Mrs Miss Dr) _____

*Address _____

*City _____ *State _____ *Zip Code _____

County _____ Country _____

Home Phone # (____) _____ Work Phone # (____) _____

Birthdate ____/____/____ Male Female

TERM/YEAR	(DIS NO.)	DEPT.	COURSE NO.	COURSE TITLE	CREDITS	A-F OR S-N	TUITION
							\$
							\$

Have you enrolled in a University of Minnesota Independent Study course before? Yes No

Have you completed the prerequisites? Yes No G.I. Bill registration? Yes No

Group Independent Study? Yes No PSEO? (High school students enrolled in college courses) Yes No

4 Ways to Register:

- in person



- by mail



- by phone (credit card only)



- by fax (credit card only)



Tuition (full payment required) \$.

a. High School Courses: \$45.00 per 1/2 semester
b. University Courses: see current Independent Study bulletin

Textbooks (please purchase while current edition is available) .. \$.

Will purchase on my own Send texts by mail

Postage/Handling per course (for texts ordered by mail) \$.

a. U.S.—4th class—\$10.00
b. U.S.—1st class—\$14.00
c. Overseas—texts/materials postage \$40.00, lessons \$14.00

Course Materials (if applicable; see course costs in current bulletin)

Study Guide/Supplement \$.

Videotape Rental \$.

Audiotapes—taxable item* \$.

Other Supplies (lab kits, disks, etc.)—taxable item(s)* \$.

*Tax (audiotapes, other supplies) \$.

*Minnesota residents: 6.5%, Minneapolis/St. Paul/Rochester residents: 7.0%

TOTAL \$.

Method of Payment: Cash Check Visa MasterCard Discover Bill to Department/Company (attach authorization, including address)

Credit Card # _____ Exp. Date _____

Cardholder Signature _____

You are responsible for all policies in the Independent Study bulletin.

Student's Signature _____ Date _____

Information in this section 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 the purpose of record keeping, affirmative action, and reporting.

Social Security Number — —

*U of MN ID #

*Last Name

*Middle Initial

*First Name

Title (Mr Ms Mrs Miss Dr)

All Students: Please fill out the following. Check *only* one box per question.

The information requested below is voluntary. Some will be used for summary reports required by federal and state laws and regulations, and to support the University's affirmative action efforts. Other information will help us learn more about your educational needs as we design our courses and programs.

This information will not be used as a basis for registration, grading, or in any other discriminatory manner.

1) Please check your predominant ethnic background. (Ethnic Code)

- 01 Black, non-Hispanic (African American)
- 02 American Indian, Alaskan Native
- 03 Asian/Pacific Islander
- A Hispanic—Chicano/Mexican-American
- B Hispanic—Puerto Rico, Cuba, other Hispanic
- 05 International Student
- 06 White, non-Hispanic (Caucasian)

2) Please check your student status. (Student Status)

- 01 High school student
- 02 U of M day school student (please specify college) _____
- 03 U of M Extension student
- 04 U of M day/Extension student
- 05 Independent Study only
- 06 Technical/community college student
- 07 Other institution (please specify) _____
- 08 Other

3) What is the highest level of education you have obtained? (Education Level)

- 01 Some high school
- 02 High school graduate
- 03 Vocational/technical training
- 04 Some college
- 05 2-year associate degree/certificate
- 06 4-year college degree
- 07 Some graduate school
- 08 Graduate or professional degree
- 09 Other (please specify) _____

4) How did you learn about Independent Study courses? (Market Source)

- 01 Friend/relative
- 02 Advisor/counselor
- 03 Employer
- 04 Independent Study bulletin
- 05 Extension Classes bulletin
- 06 Brochure, newsletter, or flyer
- 07 Minnesota Daily ad
- 08 Other newspaper ad (please specify) _____
- 09 Magazine ad (please specify) _____
- 10 Television (please specify) _____
- 11 Radio (please specify station) _____
- 12 Other (please specify) _____
- 13 Corresp. course directory (Peterson's, Bear's, etc.)
- 14 Internet (World Wide Web, Gopher, etc.)

5) What is your **main** purpose for enrolling? (Source Code)

- 01 To earn credits toward a degree or certificate program
- 02 For professional licensure or certification
- 03 Encountered a class schedule problem
- 04 Satisfy a personal interest
- 05 Assist me in my current job/promotion
- 06 Prepare me for a job/career change
- 07 Other

6) What is your **main** occupation? (Occupation Code)

- 01 Agricultural worker
- 02 Armed Services
- 03 Clerical worker
- 04 Crafts worker/repair worker
- 05 Educator
- 06 Homemaker
- 07 Machine operator/laborer
- 08 Manager, official, owner
- 09 Professional/technical
- 10 Retired
- 11 Sales/marketing
- 12 Student
- 13 Other

7) During the next two years, in which subject area are you most interested in taking courses? (Interest Area)

- 01 Arts/Humanities/Music
- 02 Business/Industry/Management
- 03 Communication/Writing
- 04 Computers/Math
- 05 Government/Public Affairs
- 06 Health/Human Services
- 07 History/Social Sciences
- 08 Language/Literature
- 09 Science/Technology/Engineering
- 10 Other (please specify)

Thank you!

Request for Information, Forms, Bulletins

Please use this form to request information, forms, and bulletins. We'll be happy to send bulletins to your friends, too.

Mail, fax, or e-mail your request to:
Department of Independent Study
University of Minnesota
45 Wesbrook Hall
77 Pleasant Street SE
Minneapolis, MN 55455-0277
Fax: 612-626-7900
E-mail: indstudy@maroon.tc.umn.edu

Please send me:

- | | |
|--|---|
| <input type="checkbox"/> Independent Study bulletin | <input type="checkbox"/> Independent Study newsletter |
| <input type="checkbox"/> bulletin for University College | <input type="checkbox"/> registration form |
| <input type="checkbox"/> introductions to the following course(s): | <input type="checkbox"/> other: please specify |

Name	Soc. Sec. #	U of M ID #
_____	_____	_____
Address		

Street/RR#/P.O. Box#		Apt. #
_____		_____
City	State	Zip Code
_____	_____	_____

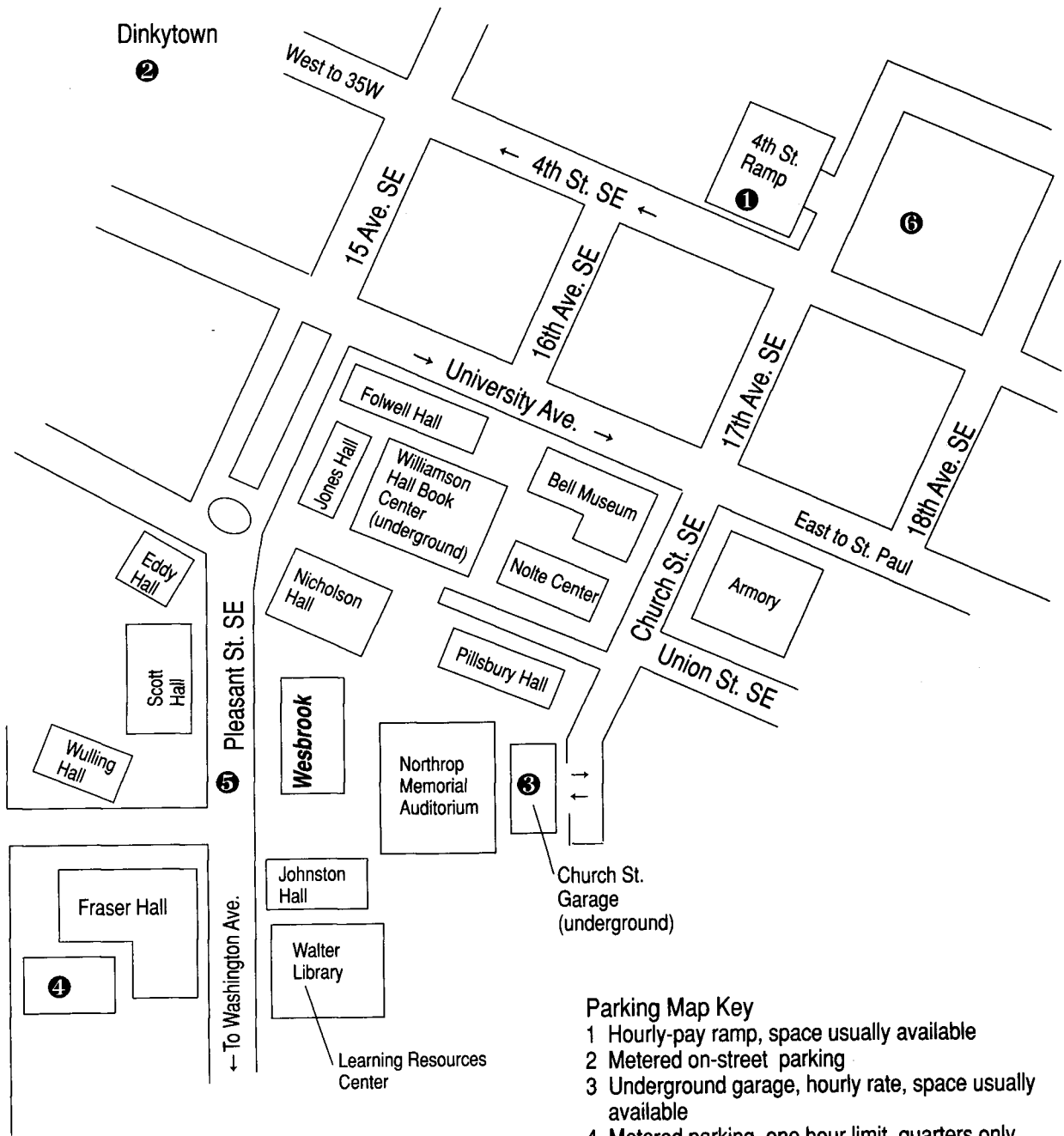
Please send an Independent Study bulletin to:

Name		

Address		

Street/RR#/P.O. Box#	Apt. #	
_____	_____	
City	State	Zip Code
_____	_____	_____

Parking Map



The Department of Independent Study is located at 45 Wesbrook Hall, 77 Pleasant St. SE. Wesbrook Hall has a ramp and an elevator to make it more accessible.

Parking Map Key

- 1 Hourly-pay ramp, space usually available
- 2 Metered on-street parking
- 3 Underground garage, hourly rate, space usually available
- 4 Metered parking, one hour limit, quarters only
- 5 Handicapped parking in front of Wesbrook Hall, three-hour limit
- 6 Flat-rate lot, available after 12 noon

Call **Parking Services, 626-PARK**, for specific information about event parking or other locations

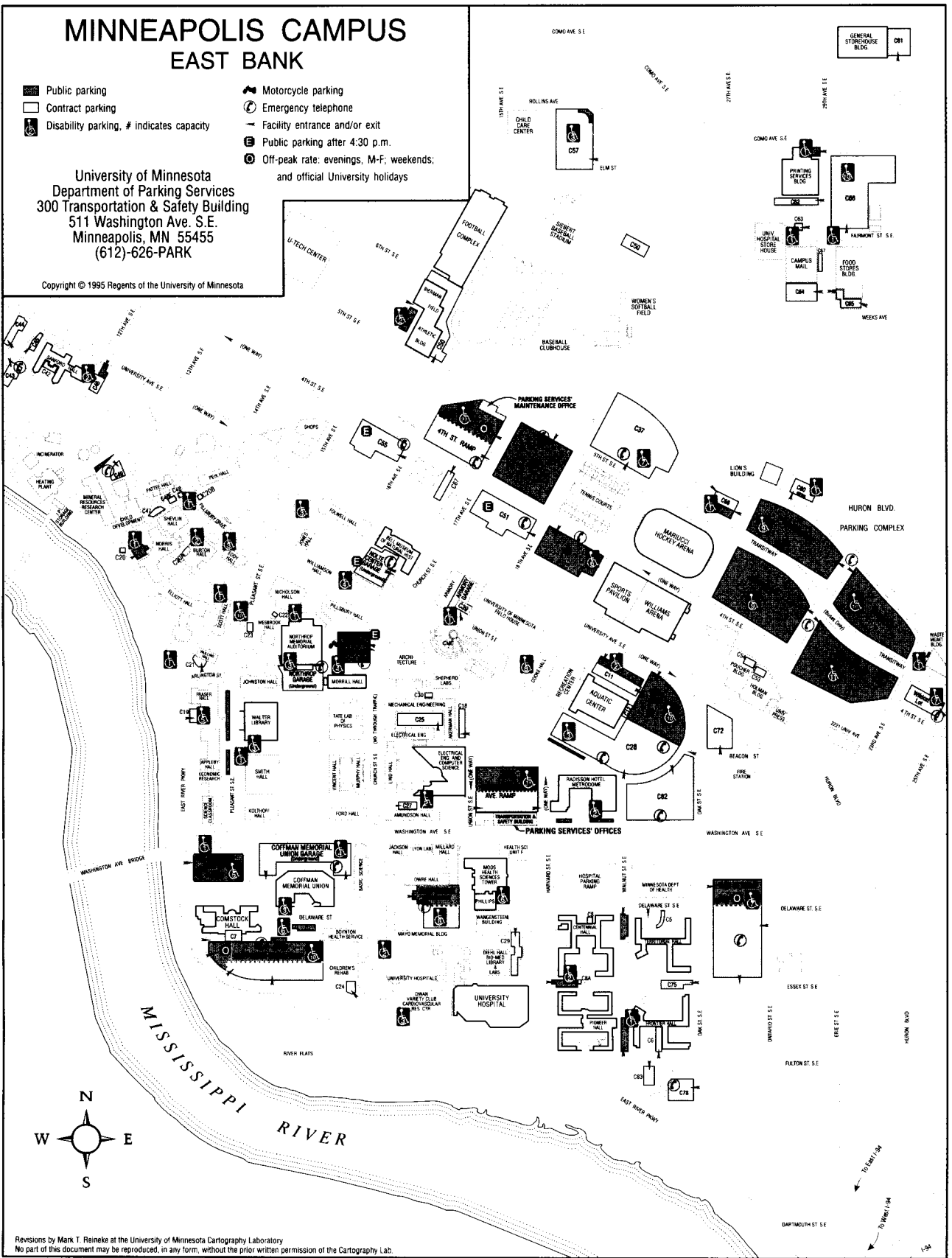
MINNEAPOLIS CAMPUS EAST BANK

- Public parking
- Contract parking
- Disability parking, # indicates capacity

- Motorcycle parking
- Emergency telephone
- Facility entrance and/or exit
- Public parking after 4:30 p.m.
- Off-peak rate: evenings, M-F; weekends; and official University holidays

University of Minnesota
Department of Parking Services
300 Transportation & Safety Building
511 Washington Ave. S.E.
Minneapolis, MN 55455
(612)-626-PARK

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University of Minnesota Bulletin
Independent Study
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