

MJ

University of Minnesota Bulletin

15

PICASSO
WATERFOWL
READING FASTER
SEA YARNS
MUSLIM EAST
CHRISTMAS
ETC. ETC.

Department of Extension Classes
Distinguishing Education and Extension
University of Minnesota UMN

university of minnesota

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The contents of this bulletin and other University bulletins, publications, or announcements are subject to change without notice.

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, creed, color, sex, national origin, or handicap. In adhering to this policy, the University abides by the requirements of Title IX of the Education Amendments of 1972, by Section 504 of the Rehabilitation Act of 1973, and by other applicable statutes and regulations relating to equality of opportunity.

Inquiries regarding compliance may be directed to Lillian H. Williams, Director, Office of Equal Opportunity and Affirmative Action, 419 Morrill Hall, 100 Church Street S.E., University of Minnesota, Minneapolis, Minnesota 55455, (612) 373-7969, or to the Director of the Office of Civil Rights, Department of Education, 400 Maryland Avenue S.W., Washington, D.C. 20202.

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About Informal Courses

Maybe you're the kind of person who's curious about everything around you—whether it's how to listen to music or the study of Minnesota wildlife. Or you could be one who plunges into an unknown subject like energy alternatives and devours all the information you can get your hands on. Or maybe you've just always had a hankering to learn something about landscaping—or whatever—and never got around to it.

Our informal noncredit classes are designed for people who want to learn more about life and themselves. They're designed for people like you.

There are no grades, exams, transcripts, or entrance requirements. Classes are informal, and, in many cases, you'll share experiences and knowledge with both instructors and fellow students. Several courses have optional field trips, too.

Whatever your interests and goals, we hope we can help you along the way.

Registration

Registration is simple. Fill out and mail one of the forms that appears starting on page 21. You will need to use one form for each person who wishes to enroll in each class. Enclose a check or money order for the full amount (course cost plus any course fees or late fees). For those classes with limited enrollments (indicated by a ★ before the title and number) include a separate check for each registration.

Registrations for fall term classes will be accepted starting August 25.

Registrations for winter term classes will be accepted starting November 24.

Registrations for spring term classes will be accepted starting February 23.

For further information and campus parking maps, call

376-7500

Send all mail inquiries and registration forms for Informal Courses to:
Informal Courses/University of Minnesota/
180 Wesbrook Hall/77 Pleasant Street S.E./
University of Minnesota/Minneapolis, Minnesota
55455

Tuition

The course descriptions include tuition for each course. You are not officially registered until all fees are paid.

Senior citizens 62 and over may register for any Informal Course at no cost. Young people 12 to 16 may register for \$3 if they are genuinely interested, mature, and are accompanied by an adult registered in the same class. (Fees usually associated with field trips must be paid, however.)

Senior citizen and youth reduced-tuition fees for *limited-enrollment* classes are available only on a space-available basis after full-tuition students have registered and paid fees. Registrations for *nonlimited-enrollment* classes are accepted during regular registration dates.

Late Fees

Include a \$5 late fee if you are registering after the late fee date given with each course.

Cancellations

To cancel a class for which you have registered and paid fees, you must use an official cancellation form and submit it to the Extension Classes registration office in person or by mail. Forms are available at 101 Wesbrook Hall. Instructors are not authorized to accept cancellations. Do not stop payment on a check. The effective date of cancellation is the day the cancellation is brought to the registration office, or the date of postmark for mail cancellations.

Sometimes classes must be canceled because of insufficient enrollment. The department reserves the right to cancel, postpone, limit enrollment, split or combine classes and to change instructors and class locations.

Refunds

Refunds for classes will be made under certain conditions.

1. A full refund will be made if a class is canceled by Extension Classes or if the day or hour of the class is changed by the department after the student has registered; if the student is recalled to, or enlists, in military service; or if a student is hospitalized or ill and cannot continue in class (doctor's statement required).

2. Students may cancel before the class has begun. There is a \$3 cancellation fee; the balance of the course costs will be refunded.

3. After the course has begun, refunds are issued in relation to the total number of class meetings in each course.

In no case will a refund be made after the fourth class meeting. Refunds are based on the number of times the class has met — not the number of times the student has attended. Late fees and transfer fees are not refundable.

Books

Occasionally the purchase of books is advised. These paperbacks will be available at University bookstores.

Other Noncredit Options

New this year are Professional Improvement Courses (PIC), designed to provide intensive, convenient, and cost-effective education for newly appointed or aspiring supervisors, managers, and professionals. These non-credit courses feature outstanding instructors from both the University and business community. They are offered evenings when working men and women can easily attend. The time span is short—generally 5 to 8 meetings—and they are intended for anyone interested in career advancement. PICs are available in four areas

that are critical for professional growth: **Communication, Leadership Tasks, Professional Insight, and Self Development.** These Professional Improvement Courses are presented by the Department of Extension classes and many are cosponsored by Continuing Management Education (CME).

In addition many University Extension credit classes may be taken for no credit at one-half the regular price (plus any course fees). Courses marked with a diamond (◆) in the margin of the 1980-81 Extension Classes Bulletin are open to no-credit, half-price registration. No-credit students keep up with readings and participate in class, but they do not submit assignments or take exams (no registration or transcript record is kept).

To request the Extension Classes Bulletin listing credit courses, half-price registration, and the new Professional Improvement Courses, call 376-3000.

Campus Building Abbreviations

AlderH (StP), Alderman Hall
AndH, Anderson Hall
AnSciVM (StP), Animal Science/Veterinary Medicine
Arch, Architecture
BlegH, Blegen Hall
BuH, Burton Hall
ClaOff (StP), Classroom Office Building
ChDev, Child Development
DiehH, Diehl Hall
EltH, Elliott Hall
FolH, Folwell Hall
FScN (StP), Food Science and Nutrition
ForH, Ford Hall
HckrH (StP), Haecker Hall
HodsonH (StP), Hodson Hall
HrG(StP), Horticulture Greenhouse
JonesH, Jones Hall
KlaCt, Klaeber Court
KoltH, Kolthoff Hall
Law, Law Building (West Bank)
LindH, Lind Hall
MacP, MacPhail Center (1128 LaSalle Ave., Minneapolis)
McNH(StP), McNeal Hall
MNH, Bell Museum of Natural History
MurH, Murphy Hall
NCCE, Nolte Center for Continuing Education

NichH, Nicholson Hall
PetH (StP), Peters Hall
Ph, Physics, Tate Laboratory of
PillsH, Pillsbury Hall
ScH, Scott Hall
So(StP), Soils
SocSci, Social Sciences Bldg.
StakH(StP), Stakman Hall of Plant Pathology
VinH, Vincent Hall
WeH, Wesbrook Hall
WuH, Wulling Hall

Off-Campus Locations

Ramsey HS, Roseville
Alexander Ramsey High School
1261 W. Highway 36, Roseville 55113
Minnetonka HS
Minnetonka High School
18301 Highway 7
Minnetonka 55343

More CEE Opportunities

Extension Classes is a department of Continuing Education and Extension (CEE), which provides many diverse educational opportunities both in and outside of the classroom. Check out the other CEE offerings at the University of Minnesota.

- 1. Extension Classes**
Several two-year and four-year degrees and 33 certificates are available in more than 25 major areas. Telephone 373-3905.
- 2. Extension Independent Study Correspondence Courses**
You may earn credits by taking University Extension Independent Study correspondence courses. Call 373-3256 for information.
- 3. TV, Radio Courses (Extension Independent Study)**
Credit is available for several radio and television courses through CEE Independent Study. Call 376-4925 for information.
- 4. Continuing Education for Women**
Continuing Education for Women offers daytime liberal arts seminars and courses both on and off campus for credit. (Men are welcome in the classes too!) Telephone 373-9743.

Arts and humanities

FALL

IC 0111 MOVIE CRITICISM AS IF AUDIENCES MATTERED. No credit, \$42.

At the price of a movie ticket these days, everyone has to be his or her own critic as well. We'll start off by briefly discussing the historical and technical background of motion pictures. Then we'll go on to take a look at how the movies have evolved by screening films in class—from classic one and two reelers (*The Great Train Robbery*; Buster Keaton's *Cops*) to the great silent comedies (*The Gold Rush*; *The General*), to depression-era comedies (*My Man Godfrey*), to classic thrillers (*The 39 Steps*; *The Third Man*), to animations (*Bugs Bunny*; *Popeye*), concluding the class with a screening of a contemporary classic film. Finally, we'll exercise our critical faculties on a mutually agreed-upon film that will currently be showing in the Twin Cities. Each class will consist of discussion, film screenings, and commentaries.

Fall Spec Term Sec 1 **W**—6:30-8:30, Oct. 1-Nov. 19
(8 meetings) MurH Aud, Bliss
No late fee through Sept. 24

(Michael Bliss is a Ph.D. in English, has written film criticism for the *Minnesota Daily* and KFAI-FM and program notes for *Cineland Theatres*, has taught film at the University of Minnesota and Minneapolis Community College, and is contributing editor to *Classic Film and Video Images*)

IC 0120 MODERN IRISH DRAMA: A WEE LOOK AT THE HERO. No credit, \$36.

Course will survey stages in the development of modern Anglo-Irish drama, focusing on the character of its perennially ironic hero. We will examine the wonderfully garrulous "stage Irishman" caricatured in the 19th century comic melodrama of Dion Boucicault, follow his growth into the simple and robust patriots drawn by Lady Gregory for the early Abbey theatre, watch him flower into the richly poetic heroes and heroines of John Synge, search out his relatives among the mythic figures in a play by Yeats, study his humor in the early work of Sean O'Casey and, with luck, meet him in the marvelously bizarre and irreverent satire of Brendan Behan and maybe Beckett. And we will also glance at some of his relatives in traditional Irish music. (A joint Continuing Education for Women/Extension Classes class)

Fall Spec Term Sec 1 **M**—6:30-8:30, Oct. 20-Nov. 24
(6 meetings) Merriam Park Library,
1831 Marshall Ave., St. Paul
No late fee through Oct. 13

(John Gidmark is an adjunct professor in the General College with a specialty in Anglo-Irish literature)

IC 0121 MODERN SCANDINAVIAN LITERATURE IN TRANSLATION. No credit, \$32.

Readings in this course are based on the premise that the culture of a nation is reflected in the literature its people read and produce. Authors studied will include Sandemose, Vesaas, Sjöwall-Wahlöö, Dinesen and others. Classroom analysis will place each work in its historical and social context and relate it to other literatures.

Fall Spec Term Sec 1 **T**—7-9, Oct. 7-Nov. 11 (6 meetings)
FolH 406, Lundquist
No late fee through Sept. 30

(Anne Lundquist is a writer and a former instructor in the Scandinavian Languages Department)

IC 0122 A HUNDRED YEARS OF THE FRENCH NOVEL. No credit, \$60.

An overview of the evolution of the French novel—from romanticism and realism to naturalism into the 20th century. A description of the changes taking place in French society as well as the development of the novel as a genre: Stendahl, Balzac, George Sand. Stendahl is the precursor of the psychological novel: in *The Red and the Black* he describes minutely the emergence of a new restless and rootless generation. Balzac further describes the changes in an increasingly indifferent society dominated by money. George Sand deals with the injustice of contemporary life and offers possible solutions. (A joint Continuing Education for Women/Extension Classes class)

Fall Spec Term Sec 1 **Th**—7-9, Oct. 2-Dec. 11
(10 meetings) FolH 102, Kheim
No late fee through Sept. 25

(Johanna Kheim has taught French and Humanities at the University of Minnesota)

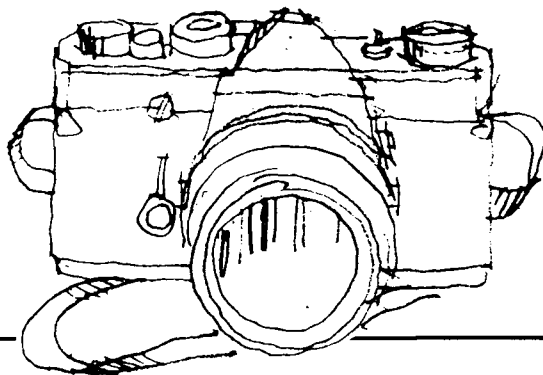
IC 0146 PICASSO: THE RESTLESS EYE. No credit, \$24.

Everyone is talking about Picasso this year. Follow and unravel the shifts in style of this most contagious artist of our century. This course will emphasize Picasso's collection of his own work from the traditional beginnings to the late paraphrasing of other painters. Students will learn the visual vocabulary as well as the sources of the painter for whom painting was "a form of magic . . . giving form to the terrors as well as the desires"—transformed into 20th-century symbols. Group discussion will be encouraged. (Offered in cooperation with the Department of Continuing Education in the Arts)

Fall Spec Term Sec 1 **M**—7:30-9, Sept. 29,
Oct. 6, 13, 20, 27 (5 meetings)
AnSciVM 135, StP Campus
No late fee through Sept. 23

One-Day Photography Workshop Making the Most of Your Camera

A "seeing" and "doing" Time-Life Learning workshop in 35mm photography which utilizes the expertise of the world's best photographers. Topics to be covered include: handling SLR camera; choosing lenses; creative exposure and film selection; using light; effective composition; taking close-ups; using filters and special effects; creating a photo essay. For further information, call the Department of Conferences, 373-3486. The workshop meets from 9 a.m. to 5:30 p.m., Saturday and Sunday, November 22 and 23, 1980.



IC 0170 THE IMMIGRANT NOVEL. No credit, \$42.

These enjoyable, varied, and sometimes surprising novels will give students new insights into American life of the recent past, and the difficulties our own forebears had to overcome in the transition to America. Why did they come? What was America like when they arrived? The class will read Willa Cather, O. E. Rolvaag, Upton Sinclair, Abraham Cahan. (A joint Continuing Education for Women/Extension Classes class)

Fall Spec Term Sec 1 **M**—7-9, Oct. 6-Nov. 10 (6 meetings)
Lindh 303 Brin
No late fee through Sept. 29

(Ruth Brin is a poet and a teacher and a reviewer of Jewish literature)

WINTER

★IC 0100 HOW TO HELP PEOPLE LEARN ENGLISH. No credit, \$29.

For volunteer tutors, sponsors of refugee families and others who find themselves trying to help newcomers to the United States learn to speak English. This course will point out basic aspects of English pronunciation and grammar that tend to be major hurdles for adult learners, and will introduce techniques that can be used in one-on-one and small-group instruction, leading conversation groups, and helping the learner master English vocabulary. Some attention can be given to teaching the more advanced reading and writing skills, but the emphasis will be on how to help adults who speak little or no English learn to cope in an English-dominant society. (Limited to 20)

Winter Spec Term Sec 1 **W**—7-9, Jan. 7-Feb. 4
(5 meetings) KLaCt 101, Downing
No late fee through Dec. 31

(Bruce Downing is an associate professor of Linguistics and English as a Second Language and chairperson of the University's Committee on Language Programs)

IC 0130 EUROPEAN FAIRY TALES. No credit, \$32.

Fairy tales do not only belong to the very best literature the collective genius of the world has ever produced; they also serve as a window into human mentality and history. This course proposes to study the structure, aesthetic values, and origins of some of the European folk tales. The main texts will be drawn from German, English, Scandinavian, French, and Russian collections. Independent research on any national collection of the world will be welcome. (A joint Extension Classes/Continuing Education for Women class)

Winter Spec Term Sec 1 **M**—6:30-8:10, Jan. 19, 26,
Feb 2, 9, 23, Mar. 2, 9
(7 meetings) FolH 308, Liberman
No late fee through Jan. 12

(Anatoly Liberman is a professor in the Departments of German and Scandinavian at the University of Minnesota)

★IC 0162 INTRODUCTION TO WEAVING. No credit, \$43 plus \$4 course fee. Total \$47.

In this introduction to the gentle art of weaving, we'll explore basic weaving techniques and patterns while becoming familiar with table and floor looms and with different fibers. Expect to weave several samples. Attendance at the first meeting is mandatory. (Limited to 20)

Winter Spec Term Sec 1 **T**—6:20-8:50, Jan. 6-Feb. 10
(6 meetings) WuH 130, Smits
No late fee through Dec. 30

(Anna Smits is an instructor in Art Education)

IC 0163 A TOUCH OF DESIGN AND COLOR FOR YOUR HOME. No credit, \$36.

Topics covered include consumer information when purchasing floor and wall coverings, fabrics for draperies, and upholstery; what to look for in furniture construction and design, and how to work with basic principles, along with color, in creating efficient interiors.

Winter Spec Term Sec 1 **Th**—6:30-8:30, Feb. 5-Mar. 19
(7 meetings)
McNH 216, StP Campus, Carim
No late fee through Jan. 29

(Carolyn Kent Carim is an instructor in the Design Department and an interior designer, Horty Elving & Associates, Architects)

★IC 0180 THE COLLECTING AND STUDY OF AMERICAN MASTER GRAPHICS. No credit, \$32.

For the collector and for those interested only in the history of American printmaking. This course will present the basic information necessary to collect original graphics (i.e., lithographs, etchings, silkscreen prints, etc.) by twentieth-century American printmakers. The class will examine and discuss original prints in the University Gallery collection. Besides providing a historical perspective on American printmaking, students will learn to recognize and distinguish between different graphic techniques and to discuss the activities of art dealers, artists, collectors, and auction houses. (Limited to 20)

Winter Spec Term Sec 1 **W**—7-9, Jan. 14-Feb. 18, (6 meetings)
University Gallery 305, Helsell
(enter east side of Northrop auditorium near parking lot)
No late fee through Jan. 7

(Charles Helsell is a curator at the University Gallery, specializing in prints and drawings)

SPRING

IC 0113 MUSIC: HOW TO LISTEN TO IT. No credit, \$36.

An introduction to basic musical elements and trends through listening to the music of great composers, such as Bach, Mozart, and Stravinsky. Various musical concepts, including notational symbols, structure, form, and style will be discussed. The development of music from a simple to a complex art form will be demonstrated by classroom performance and recordings. (A joint Extension Classes/Continuing Education for Women class)

Spring Spec Term Sec 1 T—7-9, Apr. 7-28, May 5-19
(7 meetings),
ScH 19, Lauritzen
No late fee through Mar 31

(Adrian Lauritzen is professor emeritus of Music at the University of Minnesota)

IC 0126 REDISCOVERING CHILDREN'S LITERATURE. No credit, \$28.

Are you choosy about the stories you read to children? Would you like to rediscover the books that enchanted you as a child? This course offers parents, teachers, and others who enjoy works written for children the opportunity to study and discuss both classics and contemporary literature. Informal lectures and discussion will concern, among others, the following topics: how to evaluate and choose books for children; the effects of reading upon the development of children; and themes commonly found in children's literature. We'll also recall the reading experiences we had as children and consider how such experiences may have colored our adult perspectives. A further goal of the course will be to share our enjoyment and appreciation of the literature with the children in our lives.

Spring Spec Term Sec 1 W—7-8:40, Apr. 8-May 13
(6 meetings) LindH 217, Grothe
No late fee through Apr. 1

(Joyce Grothe is a teaching associate in the English Department)

★IC 0131 THE SEA: ITS ATTRACTION AND POWER IN YARNS AND BALLADS. No credit, \$32.

The sea, with its attraction and power, has been both praised and battled by poets and sailors from the earliest times. We'll try to reach some conclusions about the sea's effects on body and spirit by reading and hearing tales of sailors, pirates, sea monsters, and shipwrecks. We'll begin by talking about language and vocabulary used for the sea, the move to poems, stories, and a play. We'll listen to sounds of the sea (lusty sea ballads and other music) and also examine visual representations of the sea through slides and a film. (Limited to 50)

Spring Spec term Sec 1 T—7-9, Apr. 7-May 12 (6 meetings)
Elth N119, Gidmark
No late fee through Mar. 31

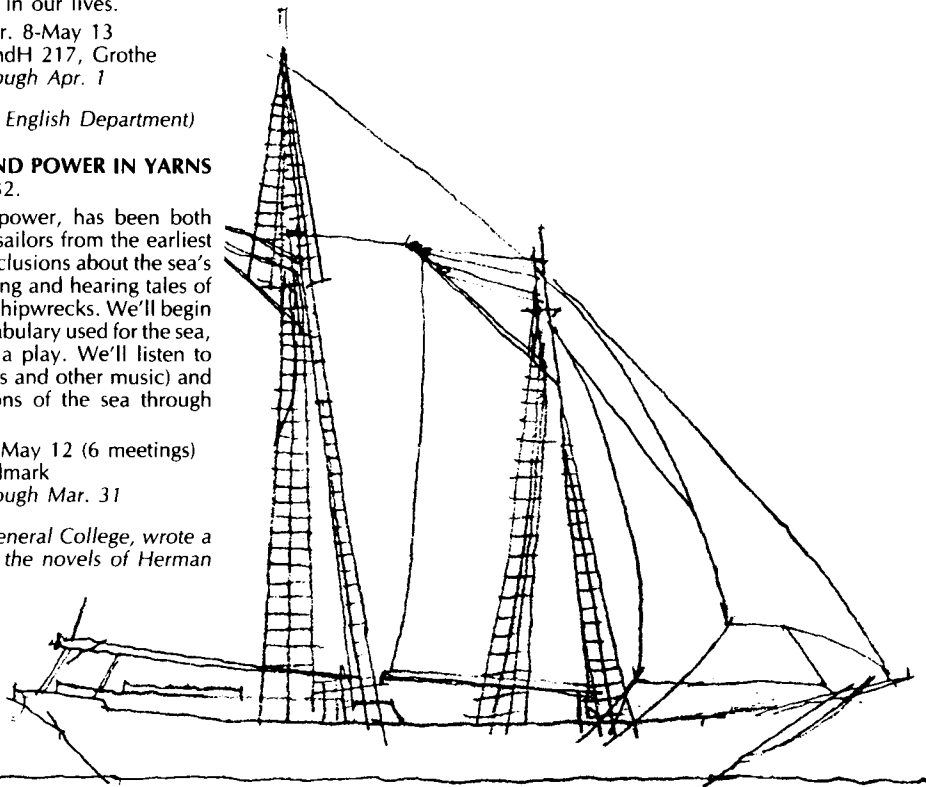
(Jill Gidmark, an assistant professor in the General College, wrote a doctoral dissertation about sea language in the novels of Herman Melville)

IC 0140 THE ARTS OF THE AZTECS AND INCAS. No credit, \$29.

An introduction to Latin American Indian cultures, from pre-Columbian civilizations to the present tribal societies, through their arts. Illustrated by literature, film, samples of folk art, recorded music, photos of temple sites and ritual ceremony.

Spring Spec Term Sec 1 M—7-9, Apr. 6-May 4 (5 meetings)
AnSciVM 135, StP Campus, Sigmund
No late fee through Mar. 30

(Charles Sigmund is an associate professor in the General College)



The natural world

FALL

★IC 0206 MINNESOTA'S WOODLANDS: TREES AND FORESTS.
No credit, \$40.

From the spruce forests along the North Shore to the oak forests in the south, Minnesota is blessed with a variety of natural woodlands. This course will acquaint you with the important tree species of these forests, and the distribution of Minnesota's forest types. Topics will include an introduction to the plant kingdom, interactions between trees and their environment, human utilization of the forests, and the history of Minnesota's vegetation. Illustrated with slides and films. (Offered in cooperation with the Bell Museum of Natural History. Limited to 25)

Fall Spec Term Sec 1 **Th**—7-9, Oct. 2, 9, 16, 23, 30, Nov. 6 (6 meetings) plus two local and one weekend field trip to Northern Minnesota (to be arranged)
MNH 311 (use SW entrance), Davis
No late fee through Sept. 25

(Owen Davis is an advanced graduate student in the Department of Ecology and Behavioral Biology where he teaches courses in ecology and vegetation history)



★IC 0211 MINNESOTA WATERFOWL: IDENTIFICATION AND NATURAL HISTORY. No credit, \$49.

Minnesota, with all of its lakes and marshes, is highly attractive to breeding and migrating ducks, swans, and geese. Become familiar with our state's waterfowl through films, slides, and the Bell Museum's dioramas, and learn to identify them in the field during three trips to Minnesota wetlands. Lectures will review the natural history of Minnesota species: one lecture will cover state conservation practices. (Offered in cooperation with the Bell Museum of Natural History. Limited to 25)

Fall Spec Term Sec 1 **W**—7-8:40, Oct. 1-Nov. 5 (6 meetings) plus field trips, Oct. 4, 18, 25 (one half-day morning and two full days) MNH 311, Burns
No late fee through Sept. 24

(Jeffrey Burns is an advanced graduate student in the Department of Ecology and Behavioral Biology. His research activities include behavioral studies of captive waterfowl)

★IC 0222 IDENTIFYING BIRDS: AN INTRODUCTION TO ORNITHOLOGY. No credit, \$58.

Combining classroom time with Saturday morning field trips, this course provides an opportunity for lab study and observation of birds in their natural habitat. The course is designed to help those who love birds learn to recognize and identify about 150 different species of Minnesota birds and to learn the general principles of field identification. Bird behavior and ecology will also be discussed. (Offered in cooperation with the Bell Museum of Natural History. Limited to 20)

Fall Spec Term Sec 1 **T**—7-9, Sept. 16-Oct. 21 (6 meetings plus 2 Saturday morning field trips and two all-day Saturday field trips, one to Hawk Ridge, Duluth, and the other to Crex Meadows Wildlife Area, Wisconsin) MNH 311 (use SW entrance), Askins
No late fee through Sept. 9
Sec 2 **W**—7-9, Sept. 17-Oct. 22 (6 meetings plus 2 Saturday morning field trips and two all-day Saturday field trips, one to Hawk Ridge, Duluth, and the other to Crex Meadows Wildlife Area, Wisconsin) Minnetonka HS 125, Bruggers
No late fee through Sept. 10

(Bob Askins and David Bruggers are advanced graduate students in the Ecology Department where they teach courses in ecology and animal behavior)

★IC 0225 A VIEW FROM THE MISSISSIPPI: ITS URBAN WILDERNESS AND HISTORY. No credit, \$35 (\$25 for each additional family member)

Enter the autumn season with a fascinating look at our urban wilderness on the Mississippi River. This short course deals with both the cultural and natural histories of the river. It consists of two separate evening lectures and guided all-day river trip in a giant fur trade voyageur canoe. The trip begins at the Camden Bridge, continues down the Mississippi through the locks at St. Anthony Falls and Ford Dam and culminates at Fort Snelling. Car shuttles for the trip will be arranged. Tuition includes lectures, canoe trip and lunch. (Limited to 30 each section)

Fall Spec Term Sec 1 **Th**—7:30, Oct. 2, 9 (2 meetings) 140 NCCE; **Sa**—Oct 11, River Tour (1 meeting).
No late fee through Sept. 25
Sec 2 **Th**—7:30, Oct. 2, 9 (2 meetings) 140 NCCE; **Su**—Oct 12, River Tour (1 meeting).
No late fee through Sept. 25

IC 0226 ECOLOGY AND MANAGEMENT OF MINNESOTA FISH.

No credit, \$38.

Behavior and habitats of sport fish such as walleye, northern pike, largemouth bass, and brook trout will be discussed within an ecological framework. Geographical regions in Minnesota will be characterized as to their fishery resources. Management of lakes, streams, and farm ponds will also be covered. A field trip is planned to visit a trout hatchery.

Fall Spec Term Sec 1 **W**—7-8:30, Oct. 15-Dec. 3
(8 meetings plus one Sat. field trip) HodsonH 490, StP Campus, Krueger
No late fee through Oct. 8

(Charles C. Krueger is a research associate in the Department of Entomology, Fisheries, and Wildlife)

IC 0251 ALTERNATIVE ENERGY RESOURCES. No credit, \$47 each term.

Section 1: Designed to provide both the do-it-yourselfer and home owners concerned about energy use in existing homes with information necessary for evaluating and reducing home energy consumption. Participants will learn how to conduct an energy audit and deal more effectively with energy waste and supply by knowing appropriate applications of energy conservation, wood heat, and solar energy. Course topics will include fuel costs and the economics of conservation, insulation, windows, furnaces, basements, and solar passive, solar active systems.

Fall Spec Term Sec 1 **T**—7-9:30, Sept. 30-Nov 18
(8 meetings) ClaOff B30, StP Campus, Thayer, Wilson
No late fee through Sept. 23

(See section 2 and 3 in winter and spring)

(Darryl Thayer and Karen Wilson, affiliated with Alternative Sources of Energy and the Center for Local Self Reliance, are coordinators. Lectures include University and community resources)

IC 0254 RESIDENTIAL ENERGY DESIGN: NEW CONSTRUCTION FOR HOME OWNERS. No credit, \$38.

A survey of new housing design concepts. Each session includes experts from the housing industry discussing: environmental design, climate orientation, earth-sheltered housing, high insulation-low infiltration housing, active and passive solar energy, thermal mass storage, clean-efficient wood heating, wind energy, water conservation and dry composting, energy efficient appliances, financing energy conscious homes and current federal and state energy tax credits. Guest speakers will be from private businesses, organizations, and state and federal agencies. Many of the concepts discussed are modeled after the Ouroboros South Project, the University of Minnesota's energy demonstration house. Each course will conclude with a Saturday tour of energy design projects in the Twin Cities. (Offered in cooperation with Continuing Education in the Arts)

Fall Spec Term Sec 1 **W**—7-9:30, Oct. 8-Nov. 5 (5 meetings) plus one field trip 9 a.m.-3:30 Nov. 1, Arch 50, Getty
No late fee through Oct. 1

(Scott Getty is the director of Ouroboros South, the University of Minnesota Alternative Energy House)

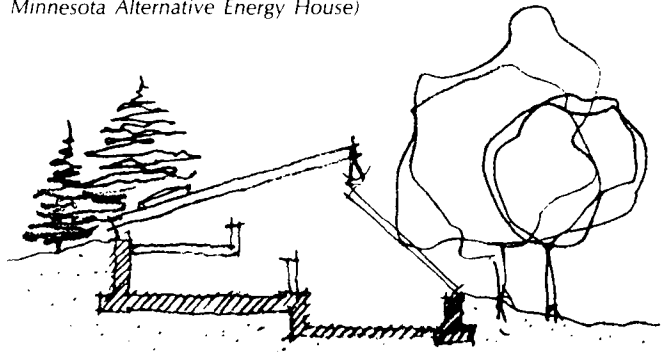
***IC 0255 RESIDENTIAL ENERGY DESIGN: BUS TOURS.** No credit, \$15.

Two bus tours each quarter will tour energy design projects in the Twin Cities. One bus tour will visit and talk with the homeowner, architect, or engineer of existing or retrofit houses. The tour will cover how these existing homes cut energy through conservation, window insulation, air infiltration control, added-on passive or active solar energy, and upgraded their existing heating system. The second tour will visit new construction and is designed to inform people planning to build a home on earth-sheltered construction, high insulation-low infiltration housing, active and passive solar energy. Each tour will visit three to four homes within the Twin Cities. (Limited to 40)

Fall Spec Term Sec 1 **New Construction—Bus Tour,**
Sat., Oct. 4, 9 a.m.-4:30,
HcKrH 210, StP Campus, Getty
No late fee through Sept. 26
Sec 2 **Existing Homes—Bus Tour,**
Sat., Oct. 11, 9 a.m.-4:30,
HcKrH 210, StP Campus, Getty
No late fee through Oct. 3

Additional special group tours may be arranged.

(Scott Getty is the director of Ouroboros South, the University of Minnesota Alternative Energy House)

**IC 0261 OVERVIEW OF MODERN GEOLOGY.** No credit, \$42.

A new series of six special lectures will explain recent and traditional geological theories in such subjects as space geology, continental drift and plate tectonics, geologic time, evolution, and geology indoors and out. Two lectures will be devoted to a discussion of Minnesota's geologic characteristics. None of the lectures is repeated from last year's series. A field trip will be offered.

Fall Spec Term Sec 1 **Th**—7-8:40, Oct. 2-Nov. 6
(6 meetings plus a Saturday field trip) PillsH 110, Alexander, Sloan, Johnson
No late fee through Sept. 25

(Professors Calvin Alexander, Robert Sloan, and Thomas Johnson are faculty members in the Department of Geology)

IC 0271 PULSARS, QUASARS AND BLACK HOLES: TOPICS IN ASTRONOMY. No credit, \$34.

Is there life elsewhere in the Universe? Do black holes really exist? What is a quasar? How did our Universe begin, and how will it end? These topics and others (birth and death of stars, neutron stars, and pulsars) will be discussed in a historical presentation of historical thought. The course will illustrate how the astronomer's perception of the Universe is constantly changing.

Fall Spec Term Sec 1 **T**—7-8:40, Oct. 7-Nov. 25
(8 meetings) Ph 170, Ondrecher
No late fee through Sept. 30

(Marc Ondrecher is an advanced graduate student in the Astronomy Department)

★IC 0274 **NATURE PHOTOGRAPHY IN MINNESOTA.** No credit, \$47.

Covers a wide number of techniques used in photographing landscapes, plants, birds, mammals, and insects. Those who enroll should own or have access to a 35mm single-lens reflex camera and have some experience using it. Methods discussed during lecture will be practiced on three weekend field trips. Topics will include, among others, bird photography without a telephoto lens, "wet-belly" photography, painless and inexpensive close-ups, composition, and film and equipment choice. Examples of the work of well-known nature photographers will be used to illustrate the lectures. The course is designed for those with natural history or scientific bent who want to come home with striking instead of ho-hum photographs. (Offered in cooperation with the Bell Museum of Natural History. Limited to 25)

Fall Spec Term Sec 1 **M**—7-9, Sept. 29-Nov. 3 (6 meetings) plus three morning field trips, Oct. 4, 11, 18, MNH 311 (use SW entrance), Edinger
No late fee through Sept. 23

(Bruce Edinger is an advanced graduate student in the Ecology Department and is a nature photographer)

WINTER

★IC 0219 **FERTILITY AND INCUBATION OF AVIAN EGGS.** No credit, \$32.

Embryo development, hatching, and care of newly hatched chicks will be covered through lecture and laboratory work. Includes the biological basis of reproduction in birds with an emphasis on the principles and practices of artificial incubation. (Limited to 20)

Winter Spec Term Sec 1 **T**—7-9, Jan. 13-Feb. 24 (7 meetings), PetH 108, StP Campus, Burke
No late fee through Jan. 6

(William Burke is a professor in the Animal Science Department)

IC 0220 **CALIFORNIA GRAY WHALE: TERRESTRIAL AND MARINE LIFE OF BAJA, CALIFORNIA.** No credit, \$35.

Introduction to the fantastic variety of terrestrial and marine life common to the Baja California peninsula. A special focus will be on the general biology, and behavior of the California gray whale. A specially designed Saturday field trip to the Minnesota Zoological Garden is included in the course (admission extra). (A joint Extension Classes/Science Museum of Minnesota class)

Winter Spec Term Sec 1 **T**—7-9, Jan. 20-Feb. 10, plus a Saturday Field Trip (5 meetings) Continuing Education Classroom 34, Science Museum of Minnesota, 30 E. Tenth St., St. Paul, Fashingbauer
No late fee through Jan. 13.

(Bernie Fashingbauer is director of the Lee and Rose Warner Nature Center, Science Museum of Minnesota)

IC 0221 **WILD ANIMALS OF THE NORTH WOODS.** No credit, \$45.

Timber wolves, moose, grouse and mice, beaver, deer, eagles, bears, caribou, and other wild animals are not so far from the Twin Cities. Learn about the natural history of the Minnesota north woods and of the mammals and birds that live there. Examine the effect human civilization—forestry, mining, etc.—has had on the area and its inhabitants. The animals will be presented in an ecological framework, with emphasis on their interactions with each other and with their surroundings. The format will be illustrated lectures shared by experts on particular species. An optional weekend field trip to northeastern Minnesota will be conducted for a limited number (cost extra) to look at northern habitats in winter. (A roundtrip bus will be chartered for the field trip to northeastern Minnesota [Isabella] if enough students do not wish to drive.) (A joint Extension Classes/Science Museum of Minnesota class offered in cooperation with the Bell Museum of Natural History)

Winter Spec Term Sec 1 **M**—7-9, Jan. 5-Feb. 9, Feb. 23, Mar. 2 (8 meetings), AnSciVM 135, StP Campus
No late fee through Dec. 29

★IC 0224 **WINTER ECOLOGY IN MINNESOTA.** No credit, \$54.

This course will combine lectures and field trips to examine the kinds of problems a Minnesota winter creates for living organisms and some of the ways in which these problems are overcome. Two local field trips and one weekend field trip to Itasca State Park will give the student an opportunity to observe characteristics of snow and ice; to identify winter birds, plants, and animal tracks; and to examine mid-winter activities of plants and animals. (Offered in cooperation with the Bell Museum of Natural History. Limited to 25)

Winter Spec Term Sec 1 **T**—7-9, Jan. 13-Feb. 17 (6 meetings plus 1 weekend field trip [cost extra] to Itasca, Fri. evening to Sun. p.m., and 2 half day Sat. field trips) MNH 311 (use SW entrance), Askins
No late fee through Jan. 6

Sec 2 **W**—7-9, Jan. 14-Feb 18 (6 meetings plus 1 weekend field trip [cost extra] to Itasca, Fri. evening to Sun. p.m., and 2 half day Sat. field trips) StakH 103, StP Campus, Miller
No late fee through Jan. 7

(Bob Askins and Jake Miller are advanced graduate students in the Ecology Department where they teach courses in ecology and animal behavior)

BAJA CALIFORNIA FIELD TRIP

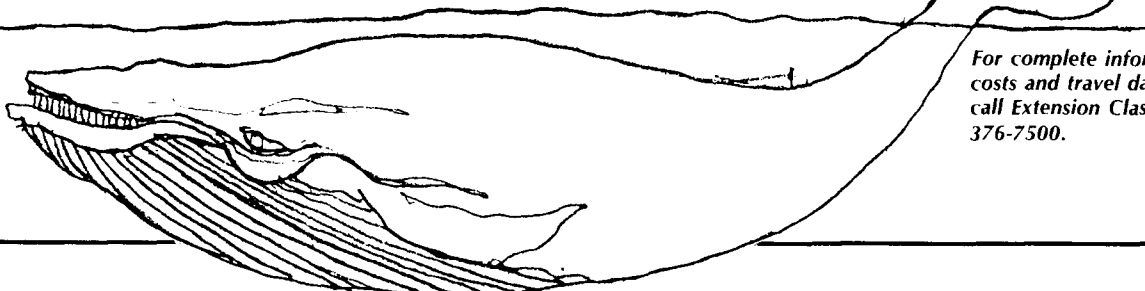
An optional land and sea trip of Baja, California and offshore islands will be offered late in February 1981.

The trip will allow you to observe and study closely the gray whale in its natural environment. Also, you will see numerous species of sea and shore birds, marine invertebrates, and many unusual and fascinating plants.

The trip is being cosponsored with the Science Museum of Minnesota.

You need not be a registrant in above whale course to join the trip.

For complete information on costs and travel dates, please call Extension Classes at 376-7500.



★IC 0230 **FOOD FOR YOUR KIDS.** No credit, \$32.

"Don't worry Mom, I'm eating right." We all know eating right is important, but it is not always easy, especially for children. This course will take a practical look at the problems of getting children to eat right. We will discuss important nutrition concerns and you will learn how to evaluate your child's food intake. Child development and its relationship to how and what children like to eat will be discussed along with how to influence good eating habits. Also, we will look at how television, advertisements, other kids, and Grandma influence food preferences. (Limited to 30)

- Winter Spec Term** Sec 1 **T**—7-9, Jan. 20-Feb. 24 (6 meetings)
Ramsey HS 239, Roseville, Splett
Jan 20—Food Habits—What's Important. *An examination of nutrition concerns for growing children.*
Jan. 27—Translating Nutrition Into Food for Kids. *Food sources of crucial nutrients—how much, how often?*
Feb 3—How Am I Doing? *Evaluating Your Child's Intake. Learn how dietitians evaluate nutritional status of children.*
Feb 10—Child Development or Why Billy Won't Eat Peas Now. *There are some predictable patterns for kids' eating habits.*
Feb 17—Now How Do I Get Him/Her to Eat Right? *Influencing food habits—who is in charge?*
Feb 24—Putting It All Together. *No, a balanced diet isn't a coke in one hand and a candy bar in the other, nor is it a granola bar and a cup of yogurt.*
No late fee through Jan. 13

(Pat Splett is an instructor in the program in Public Health Nutrition)

IC 0245 **LANDSCAPING THE MINNESOTA HOME GROUNDS.** No credit, \$25.

Attention is focused on using plants to beautify our Minnesota yards and grounds. Special help for the interested homeowner or business owner/manager to review critically the landscape of home or business and to plan a design to improve the grounds. Requirements for maintaining beauty in the yard will also be examined. For those who enjoy the art of horticulture.

- Winter Spec Term** Sec 1 **W**—6:30-8:30, Mar. 4-25, Apr. 1 (5 meetings),
ClaOff B42, StP Campus, Ray
Mar. 4—The Art of Landscape Gardening
Mar. 11—Designing with Plants
Mar. 18—Workshop: Designing Your Own Yard
Mar. 25—Workshop: Maintaining Beauty in Your Yard
No late fee through Feb. 25

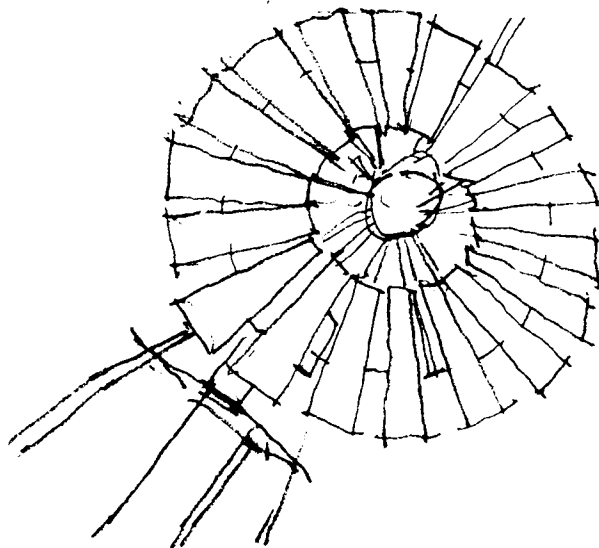
(Glenn Ray is executive secretary of the Minnesota Horticultural Society)

IC 0251 **ALTERNATIVE ENERGY RESOURCES.** No credit, \$47 each term.

Section 2: For people planning on building a new home. Principles of design, energy conservation, and alternative energy sources will be evaluated on the basis of economics. Design variation, construction techniques, and material selection are discussed with respect to their impact on energy conservation. Appropriate applications of wood heat and solar energy integrated with conventional furnaces will also be presented. Class topics will include economics, design, construction techniques, heating systems, insulation, wood heat, and solar passive, solar active systems.

- Winter Spec Term** Sec 2 **T**—7-9:30, Jan. 6-Feb. 24, (8 meetings), AnScVM 125, StP Campus, Thayer, Wilson
No late fee through Dec. 30

(Darryl Thayer and Karen Wilson, affiliated with Alternative Sources of Energy and the Center for Local Self Reliance, are coordinators. Lectures include University and community resources)



★IC 0254 **RESIDENTIAL ENERGY DESIGN: NEW CONSTRUCTION FOR HOME OWNERS.** No credit, \$38.

A survey of new housing design concepts. Each session includes experts from the housing industry discussing: environmental design, climate orientation, earth-sheltered housing, high insulation-low infiltration housing, active and passive solar energy, thermal mass storage, clean-efficient wood heating, wind energy, water conservation and dry composting, energy efficient appliances, financing energy conscious homes and current federal and state energy tax credits. Guest speakers will be from private businesses, organizations, and state and federal agencies. Many of the concepts discussed are modeled after the Ouroboros South Project, the University of Minnesota's energy demonstration house. Each course will conclude with a Saturday tour of energy design projects in the Twin Cities. (Offered in cooperation with Continuing Education in the Arts)

- Winter Spec Term** Sec 2 **Th**—7-9:30, Jan. 8-Feb. 5 (5 meetings) plus one field trip 9 a.m.-3:30 Feb. 7, Minnetonka HS 120, Getty (Limit 30)
No late fee through Jan. 2

(Scott Getty is the director of Ouroboros South, the University of Minnesota Alternative Energy House)

★IC 0255 **RESIDENTIAL ENERGY DESIGN: BUS TOURS.** No credit, \$15.

Two bus tours each quarter will tour energy design projects in the Twin Cities. One bus tour will visit and talk with the homeowner, architect, or engineer of *existing* or *retrofit* houses. The tour will cover how these existing homes cut energy through conservation, window insulation, air infiltration control, added-on passive or active solar energy, and upgraded their existing heating system. The second tour will visit new construction and is designed to inform people planning to build a home on earth-sheltered construction, high insulation-low infiltration housing, active and passive solar energy. Each tour will visit three to four homes within the Twin Cities. (Limited to 40)

- Winter Spec Term** Sec 3 New Construction—Bus Tour,
Sat., Jan. 10, 9 a.m.-4:30,
HcKrH 210, StP Campus, Getty
No late fee through Jan. 2
- Sec 4 Existing Homes—Bus Tour,
Sat., Jan. 17, 9 a.m.-4:30,
HcKrH 210, StP Campus, Getty
No late fee through Jan. 9

Additional special group tours may be arranged.

(Scott Getty is the director of Ouroboros South, the University of Minnesota Alternative Energy House)

IC 0281 **WINTER BACKPACKING AND CROSS COUNTRY SKIING.** No credit, \$30.

For the winter outdoors person—to increase your “comfort zone” while participating in outdoor recreation activities during winter months. Demonstrating proper preparation, safety considerations, increased comfort and equipment, and ethically sound practices. Principles and techniques of cross country skiing, snowshoeing, winter camping, backpacking, and use of dog sleds for support.

Session I: Responsibilities of outdoor user. Insulation, clothing and footwear. Equipment selection, care, and use. Trip preparation, travel technique, trail discipline. Campsite selection, sheltersite selection, shelter improvements, sleeping warm, stoves and cooking. Effects of cold on the body; cold injuries; field preparation.

Session II: Snowshoes, accessories, cross country skis, boots, poles, bindings, waxing, skiing with a pack. Day clothing and equipment selection, survival and psychology of cold. Sled dog use, equipment and training. Snowshoeing.

Session III: Field training. Cross country skiing practicum—skis, boots, poles required. Travel techniques, campsite selection, shelter construction, shelter improvements, cooking, snow shelters, familiarization with skis, field critique. Dogsledding demonstration. *(This session to be held at University Golf course. A joint Extension Classes/Continuing Education for Women class)*

- Winter Spec Term** Sec 1 **W**—7-9:30, Jan. 14, 21, Arch 5
Sa—half day, Jan. 24 (University
Golf Course) (3 meetings)
No late fee through Jan. 7

SPRING

★IC 0210 **ANIMAL BEHAVIOR.** No credit, \$42.

The behavior of animals, especially those living in groups, is much more complex than most people realize. In this course we will discuss the elaborate societies of bees, ants, jays, baboons, lions, elephants, acorn woodpeckers, and many other animals. Emphasis will be placed on why animals live in groups and how they communicate with each other. Several films will be used to supplement the lectures. Animals which can be observed in Minnesota will often be used as examples, and there will be observations of particular species on two Saturday morning field trips. (Offered in cooperation with the Bell Museum of Natural History. Limited to 25)

- Spring Spec Term** Sec 1 **T**—7-9, Apr. 7-May 12 (6 meetings)
MNH 311 (use SW entrance, plus 2 Sat.
half-day field trips, Bruggers
No late fee through Mar. 31

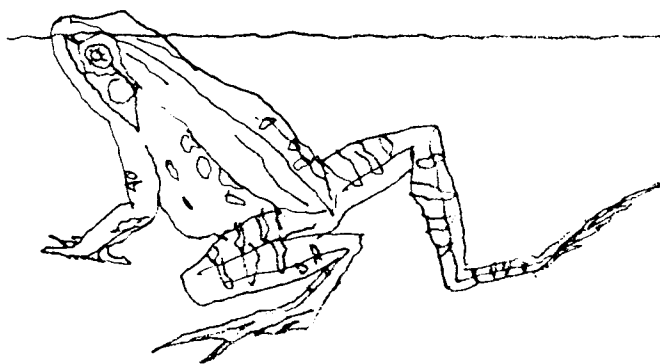
(David Bruggers is an advanced graduate student in the Ecology Department)

IC 0212 **AMPHIBIANS AND REPTILES: AN INTRODUCTION TO HERPETOLOGY.** No credit, \$42.

This course will provide an introduction to the identification, behavior, and ecology of amphibians and reptiles. Lectures, slides, and films will be used to illustrate the worldwide diversity of these fascinating animals. Topics covered will include poisonous amphibians and reptiles, the social behavior of crocodiles, and hot-blooded dinosaurs. Identification of Minnesotan species will be taught in the laboratory and field. Two Saturday afternoon-evening field trips will concentrate on spring salamander migrations and the nocturnal breeding behavior of frogs and toads. We will learn the breeding calls of resident amphibian species and observe the dramatic behavior associated with large breeding choruses. Dates and locations to be arranged. (Offered in cooperation with the Bell Museum of Natural History)

- Spring Spec Term** Sec 1 **Th**—7-9, Apr. 2-May 7 (6 meetings)
MNH 311 (use SW entrance), Karns
No late fee through Mar. 26

(Daryl Karns is an advanced graduate student in the Ecology Department. He has done research on the ecology and systematics of amphibians and reptiles in the central U.S. and in West Africa)



★**IC 0222 IDENTIFYING BIRDS: AN INTRODUCTION TO ORNITHOLOGY.** No credit, \$58.

Combining classroom time with Saturday morning field trips, this course provides an opportunity for lab study and observation of birds in their natural habitat. The course is designed to help those who love birds learn to recognize and identify about 150 different species of Minnesota birds and to learn the general principles of field identification. Bird behavior and ecology will also be discussed. (Offered in cooperation with the Bell Museum of Natural History. Limited to 20)

- Spring Spec Term** Sec 3 **T**—7-9, April 7-May 12 (6 meetings plus 4 Saturday morning field trips), MNH 311 (use SW entrance), Askins
No late fee through Mar. 31
- Sec 4 **W**—7-9, April 8-May 13 (6 meetings plus 4 Saturday morning field trips), MNH 311 (use SW entrance), Hamann
No late fee through Apr. 1

(Bob Askins, Kim Hamann and David Bruggers are advanced graduate students in the Ecology Department where they teach courses in ecology and animal behavior)

IC 0223 WILD FLOWERS IN MINNESOTA. No credit, \$35.

For nature lovers, and those who want to develop a greater appreciation and enjoyment of wild flowers and plants in Minnesota. Learn to recognize family characteristics of groups of plants, their behavior and relationship. Opportunity for individual learning and expression, and may include photography, sketching, painting, or writing about plants; collecting insects or leaves. For those who enjoy a trek through the woods.

- Spring Spec Term** Sec 1 **W**—5:30-7:30, Apr. 15-May 20 (6 meetings including field trips) Ph 143, Buonocore
No late fee through Apr. 8

(Alicia Buonocore is an instructor in the General College)

IC 0229 IDENTIFYING BIRDS: AN INTERMEDIATE COURSE. No credit, \$49.

This course provides a continuation of IC 0222 (*Identifying Birds: An Introduction to Ornithology*), **see listing above**, and assumes that the student has acquired a basic understanding of the principles of ornithology. The intermediate course will familiarize the student with different species of spring migratory and breeding birds along with their behavior and ecology. Emphasis will be on experiences with birds in the wild, with more field trips and fewer lecture sessions than in the introductory course. There will be a weekend field trip to Itasca State Park, a one-day field trip, and four Saturday morning field trips in the metropolitan area. (Locations of field trips to be arranged.) (Offered in cooperation with the Bell Museum of Natural History)

- Spring Spec Term** Sec 1 **T**—7-9, May 19, June 2, 16 (3 meetings) MNH 311 (use SW entrance); field trips will meet every Sat. May 23-June 27, 1 weekend field trip [cost extra] to Itasca, Fri. evening to Sun. p.m., June 5, 6, 7 (6 field trips) Askins
No late fee through May 12
- Sec 2 **W**—7-9, May 20, June 3, 17 (3 meetings) MNH 311 (use SW entrance); field trips will meet every Sat. May 23-June 27, 1 weekend field trip [cost extra] to Itasca, Fri. evening to Sun. p.m., June 5, 6, 7 (6 field trips), Hamann
No late fee through May 13

(Bob Askins and Kimm Hamann are advanced graduate students in the Ecology Department)

★**IC 0233 ASSESSING THE QUALITY OF YOUR DIET.** No credit, \$32 plus \$1 course fee, Total \$33.

Participants do their own individual assessment of their diet quality. Various assessment techniques will be used, including computer assessment of nutrient intake, body measurement indexes and indexes of food behavior, lifestyle, and health habits. Other topics for discussion will include new guidelines for eating and methods for changing food habits. (Limited to 30)

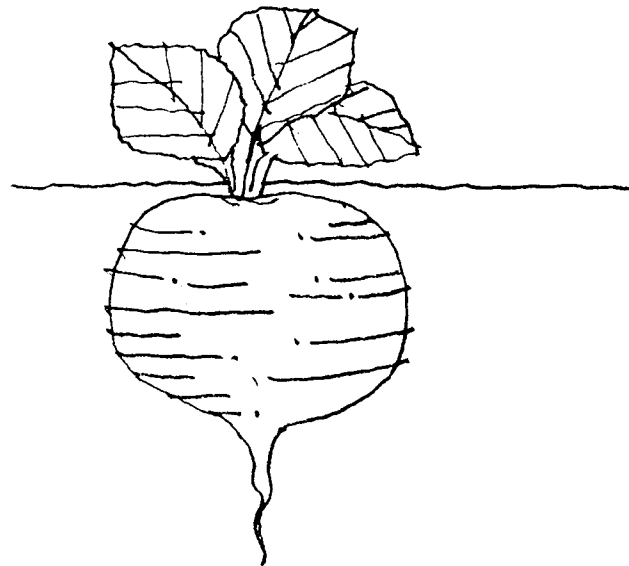
- Spring Spec Term** Sec 1 **W**—7-9, Apr. 15-May 20 (6 meetings), FScN 23, StP Campus, Van Zyl York
No late fee through Apr. 8

(Pamela Van Zyl York is an instructor in Public Health Nutrition)

★**IC 0242 VEGETABLE GARDEN PLANNING AND PLANTING.** No credit, \$32 plus \$3 course fee. Total \$35.

Spring is the season when garden planning shifts into high gear. This course is for the home gardener interested in planting vegetables and bedding plants. We'll practice planting and transplanting seedlings and discuss soil preparation, the use of organic and conventional fertilizers and pest controls, staking, mulching and other preparations for a fruitful summer. Materials will be provided. (Limited to 30)

- Spring Spec Term** Sec 1 **T**—7-9, Mar. 17-April 21 (6 meetings) Ramsey HS 239, Roseville
Follow Spring semester registration dates; registrations accepted starting Jan. 12
No late fee through Mar. 10



IC 0251 ALTERNATIVE ENERGY RESOURCES. No credit, \$47 each term.

Section 3: Directed toward designing, building, or buying solar and other alternative energy systems. Class topics will include principles of solar energy, the evolution of solar architecture, passive solar energy in new and existing housing, solar greenhouses, domestic hot water systems, and solar active space heating systems. (Prereq Sec 1 or Sec 2. Offered in cooperation with Continuing Education in the Arts)

- Spring Spec Term** Sec 3 **T**—7-9:30, Mar. 31-May 19 (8 meetings), ClaOff B45, StP Campus, Thayer, Wilson
No late fee through Mar. 24.

(Darryl Thayer and Karen Wilson, affiliated with Alternative Sources of Energy and the Center for Local Self Reliance, are coordinators. Lectures include University and community resources)

IC 0254 RESIDENTIAL ENERGY DESIGN: NEW CONSTRUCTION FOR HOME OWNERS. No credit, \$38.

A survey of new housing design concepts. Each session includes experts from the housing industry discussing: environmental design, climate orientation, earth-sheltered housing, high insulation-low infiltration housing, active and passive solar energy, thermal mass storage, clean-efficient wood heating, wind energy, water conservation and dry composting, energy efficient appliances, financing energy conscious homes and current federal and state energy tax credits. Guest speakers will be from private businesses, organizations, and state and federal agencies. Many of the concepts discussed are modeled after the Ouroboros South Project, the University of Minnesota's energy demonstration house. Each course will conclude with a Saturday tour of energy design projects in the Twin Cities. (Offered in cooperation with Continuing Education in the Arts)

Spring Spec Term Sec 3 **T**—7-9:30, Mar. 17-Apr. 14 (5 meetings) plus one field trip
9 a.m.-3:30 April 11, Science Museum of Minnesota Auditorium, 30 E. Tenth St., St. Paul (offered jointly with the Science Museum of Minnesota) Getty
No late fee through Mar. 10

(Scott Getty is the director of Ouroboros South, the University of Minnesota Alternative Energy House)

★IC 0255 RESIDENTIAL ENERGY DESIGN: BUS TOURS. No credit, \$15.

Two bus tours each quarter will tour energy design projects in the Twin Cities. One bus tour will visit and talk with the homeowner, architect, or engineer of existing or retrofit houses. The tour will cover how these existing homes cut energy through conservation, window insulation, air infiltration control, added-on passive or active solar energy, and upgraded their existing heating system. The second tour will visit new construction and is designed to inform people planning to build a home on earth-sheltered construction, high insulation-low infiltration housing, active and passive solar energy. Each tour will visit three to four homes within the Twin Cities. (Limited to 40)

Spring Spec Term Sec 5 New Construction—Bus Tour,
Sat., Apr. 11, 9 a.m.-4:30,
HcKrH 210, StP Campus, Getty
No late fee through Apr. 3
Sec 6 Existing Homes—Bus Tour,
Sat., Apr. 18, 9 a.m.-4:30,
-HcKrH 210, StP Campus, Getty
No late fee through Apr. 10

Additional special group tours may be arranged.

(Scott Getty is the director of Ouroboros South, the University of Minnesota Alternative Energy House)

IC 0262 ENERGY RESOURCES AND THE FUTURE. No credit, \$28.

This course discusses nonrenewable and renewable energy resources in terms of available supply and supply limitations, costs, and environmental effects. A look at energy consumption patterns will lead to an investigation of how and where alternative energy sources may be used. The goal of the course is to examine the options open to the United States over the next 20 to 50 years, including the roles of nuclear energy, coal, conservation, and renewable resources (solar-based).

Spring Spec Term Sec 1 **Th**—7-8:40, Apr. 2-30, May 7
(6 meetings) PillsH 110, Shaw
No late fee through Mar. 26

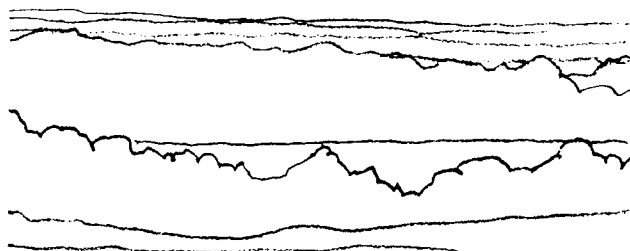
(George Shaw is an assistant professor in the Department of Geology and Geophysics)

IC 0280 PARKS AND PEOPLE: CONFLICT IN THE LEISURE WORLD. No credit, \$35.

Through discussions, slides, and guest lecturers, new and existing parks will be investigated. Voyageur's National Park and other state and local (metropolitan) parks will be used to examine the mutual impact of people on parks, and parks on city residents. A Saturday field trip will be arranged to illustrate the conflicts that occur in managing a recreation area and how this affects the public. The different perspectives of park users, local and metropolitan residents, park personnel, environmental groups, and politicians will be emphasized.

Spring Spec Term Sec 1 **W**—7-9, Apr. 15-May 20
(6 meetings plus one Saturday field trip) ClaOff, B36
StP Campus, Merriam, Knopp
No late fee through Apr. 8

(Lawrence Merriam is a professor and Timothy Knopp is an associate professor in the College of Forestry, Recreation Resources Management)



IC 0291 SO YOU WANT TO BUY A HORSE. No credit, \$25.

For the amateur horse enthusiast. Includes sessions on breed selection, problems avoidance, and how to deal with your banker; horse breeding; form-function—foot and farver; feed characteristics and providing adequate nutrition for your horse; showing, racing, chasing and hunting, horse culture, class and cash.

Spring Spec Term Sec 1 **T**—7:15-9, Mar. 31, Apr. 7, 14, 21,
May 5 (5 meetings)
ClaOff B42, StP Campus, Jordan
No late fee through Mar. 24

(Robert Jordan is a professor of Animal Science)

Society, behavior, and culture



FALL

IC 0319 THE AMERICAN COMIC STRIP. No credit, \$36.

Holy Cow! Here's your chance to find out what's really behind the American comic strip. Who was The Yellow Kid? Why did the Katzenjammer Kids become Irish? Remember the Schmoo? Why would Blondie marry Dagwood? Who is "Sparky" in Peanuts? This course offers the opportunity to explore the art, themes, and social impact of the comic strip. This popular art form will be examined in the context of the American culture. Strips to be studied in this series of seven illustrated lectures include *Mutt and Jeff*, *Dick Tracy*, *Gasoline Alley*, *Little Orphan Annie*, *Terry and the Pirates*, *Pogo*, *Peanuts*, and *Doonesbury*.

Fall Spec Term Sec 1 **Th**—7-9, Oct. 9-Nov. 13 (7 meetings)
VinH 311, Neubeck
No late fee through Oct. 2

(Ralph Neubeck holds a Ph.D. in American Studies)

IC 0320 TWIN CITIES INDUSTRY: AN INTRODUCTION TO HISTORICAL SOURCES. No credit, \$40.

An off-campus course with several field trips. Co-sponsored by the Minnesota Historical Society. Classes will meet in the Society's James J. Hill House and other Society facilities in St. Paul and in the University's Northwest Architectural Archives in the Midway area. The group will study the technological, engineering, and architectural aspects of such industries as flour milling, agricultural machinery manufacturing, railroading, and water power systems. Emphasis will be placed on specialized sources: photographs, insurance maps, business records, manufacturers: census, architectural drawings, and surviving structures. Saturday field trips will include visits to the Saint Anthony Falls Historic District, Workers' houses, locks, dams, and bridges, flour mills, hydro-electric sites, railroad structures, and other key sites.

Fall Spec Term Sec 1 **W**—7-9, Oct. 1-22 (4 class meetings plus two Saturday field trips on Oct. 11, Nov. 1) First class will be at James J. Hill House, 240 Summit Avenue, St. Paul, Frame, Westbrook, Wickre, Lathrop
No late fee through Sept. 24

(Robert M. Frame III is architectural historian and research historian for the Historical Society; Nicholas Westbrook is curator of exhibits for the Society; John M. Wickre is assistant head of technical services for the Society; and Alan K. Lathrop is assistant professor at the University)

IC 0340 GREAT DECISIONS 1980. No credit, \$32.

Do you have a hard time keeping informed on the complex world issues of today? This course will help participants to develop informed opinions through quality instruction and discussions. The text is prepared by the Foreign Policy Association and includes opinion ballots to be returned and included in the national tabulation which is presented to Congress, national media, etc. Topics will be chosen from the following: The World in 1980; Mideast and the Gulf; The United Nations at 35; Eastern Europe; Humanity on the Move; Brazil's Rising Power; Vietnam and Its Neighbors; and The World Energy Crunch.

Fall Spec Term Sec 1 **Th**—7-9, Oct. 2-Nov. 6 (6 meetings)
Elth N119, Rogers
No late fee through Sept. 25

(William Rogers is director of Continuing Education in Public Policy and the World Affairs Center)

★IC 0370 THE CELEBRATION OF CHRISTMAS IN MINNESOTA, 1850-1925. No credit, \$15.

A three-session course including visits to two historic sites decorated for the holiday season. In 1850, Minnesota was on the frontier, and Christmas was a relatively austere do-it-yourself holiday in the New England tradition of the first white settlers. Later as immigrants with different ethnic customs arrived, the holiday became much more festive. By 1925, however, the holiday had become integrated with the commercial activities of an industrialized nation. The first session, at the Landmark Center in St. Paul, explores these changes using a slide presentation plus artifacts and decorations reflecting earlier hand-crafted traditions. The second and third session are visits to historic sites: The Alexander Ramsey House, residence of one of the state's early prominent families; and the Gibbs Farm Museum, home of a typical middle-class farmer. (A joint Ramsey County Historical Society/Extension Classes class limited to 25 Extension students.)

Fall Spec Term Sec 1 **T**—7:30-9:30, Nov. 25;
T—7:30-9, Dec. 2;
Th—7:30-9, Dec. 4 (3 meetings)
Bell, Nutzman
Nov. 25—Landmark Center,
75 W. Fifth St., St. Paul
Dec. 2—Ramsey House,
265 S. Exchange, St. Paul
Dec. 4—Gibbs Farm,
2097 Larpenteur Ave. W.,
St. Paul
No late fee through Nov. 18

(Virginia Bell is artifacts curator with the Ramsey County Historical Society; Mary Kay Nutzman is an interpretative guide at the Minnesota Historical Society's Alexander Ramsey House)

IC 0373 HISTORIC WALKING TOUR OF DOWNTOWN ST. PAUL.

No credit, \$12.

Who remembers "The Colonnade?" Who has explored the old brick alley that was reputedly James J. Hill's entrance to his old railroad office building? These and many other sites will be part of this tour of some of downtown's famous and forgotten architectural treasures. A two-session program consisting of an evening slide presentation at the Landmark Center followed by a Saturday walking tour. (A joint Ramsey County Historical Society/Extension Classes class)

Fall Spec Term Sec 1 **W**—7-9, Oct. 8, and **Sa**—9 a.m.-12, Oct. 11
(2 meetings) Landmark Center,
75 W. Fifth St., St. Paul, Glines
No late fee through Oct. 1

(Timothy Glines is assistant director of the Ramsey County Historical Society)

***IC 0374 MA AND PA'S WAY: CHANGE IN MINNESOTA AGRICULTURE.** No credit, \$10.

Come to the Gibbs Farm Museum and explore the way it used to be when Ma and Pa and the horses ran the family farm. The class will concentrate on the revolution in farm technology during the late 19th and early 20th centuries. The class will use the artifacts and exhibits at the farm museum as resources for the class. (A joint Ramsey County Historical Society/Extension Classes class limited to 25 Extension students)

Fall Spec Term Sec 1 **M**—7-9, October 13-20 (2 meetings)
Gibbs Farm, 2097 Larpenteur Ave. W.,
St. Paul, Leichtle
No late fee through Oct. 6

(Kurt E. Leichtle is the site manager of the Ramsey County Historical Society's Gibbs Farm Museum)

WINTER**IC 0301 IMMIGRATION TO NORTHEASTERN MINNESOTA, 1880-1920.** No credit, \$42.

During a 40-year period immigrants from 43 nations arrived on the Mesabi, Vermilion, and Cuyuna iron ranges of northeastern Minnesota. They came to fill a need for laborers in the expanding iron ore mining and lumber industries. Finns, Slovenes, Croatians, Serbians, Italians, Swedes, and Norwegians provided the majority of immigrants. They have contributed much to the social and linguistic structure of the region. The course will examine the interaction of the foreign-born with the major mining companies in such areas as the strikes of 1907 and 1916, life in company "locations," politics, schools, as well as the particular character of subsequent generations. There will be a weekend field trip (cost extra) to northeastern Minnesota which will include visits to pertinent historic sites in Duluth, Superior, Wis., Virginia, Chisholm, Hibbing, and Saudan, as well as the interpretive centers in Ely. Dates will be arranged.

Winter Spec Term Sec 1 **W**—6:30-9, Jan 14-Feb 25 (7 meetings)
ForH 40, Karni
No late fee through Jan. 7

(Michael Karni is a consultant to the Iron Range Interpretive Program and formerly with the Immigration History Research Center, University of Minnesota)

**IC 0302 THE LIVEABLE WINTER CITY.** No credit, \$25.

Ideas and strategies to make the city more attractive and liveable during the long winter months. Students will examine the natural environment such as the types of trees and other plants desirable in the north, the built environment including both business and home structures, and the human environment which includes winter activity such as shopping, entertainment, and recreation.

Winter Spec Term Sec 1 **Th**—7-9, Jan. 8-29 (4 meetings)
ForH 40, Rogers
No late fee through Jan. 2

(William Rogers is director of Continuing Education in Public Policy and the World Affairs Center)

IC 0310 FOLK CULTURE AND FOLKLORE. No credit, \$32.

In spite of our fast-changing society, many of our attitudes and behaviors are based on traditions and folk culture. This course will explore the background and impact of folklore through readings, slides, films, and discussions. Attention will be given to museums as learning resources and capturing folklore through interviews, music, and story telling.

Winter Spec Term Sec 1 **M**—7-9, Jan. 12-Feb. 16 (6 meetings)
ForH 40, Moore
No late fee through Jan. 5

(Willard B. Moore, is education and curriculum consultant and former associate director of Minnesota Folklife Center)

IC 0321 UNDERSTANDING THE ECONOMY: UNEMPLOYMENT, INFLATION, AND PROBLEMS OF GROWTH AND THE ENVIRONMENT. No credit, \$29.

Many people have difficulty relating their personal economic experiences—coping with inflation, finding work or changing jobs, buying a house—to the processes which guide the larger economy. On completion of this course the student will have a better understanding of how factors such as unemployment, inflation, energy policy, and other factors affect his or her economic situation. Current debates over economic policy will be explored. Topics for discussion will include recession; depression and unemployment; money and finance; deficit spending and the impact of debt; inflation: its diagnosis and proposed cures; economic growth in America: its historical sources and future prospects; and energy and environment and the limits to growth.

Winter Spec Term Sec 1 **Th**—7-9, Jan 15-Feb. 12 (5 meetings)
WuH 130, Green
No late fee through Jan. 8

(George Green is an associate professor of History at the University of Minnesota)

★IC 0323 **POLITICAL CARTOONING.** No credit, \$45.

A critical and intelligent look into the artistic, communicative and sociopolitical dimension of political cartooning. Shows the student step by step how to produce a political cartoon—from developing an idea to drawing the finished cartoon—and covers the finer aspects of caricature, humor formulas, drafting materials, and techniques and marketing. The student will be given the opportunity to cultivate an active appreciation of the many values of this popular medium and to attain an informed contextual basis upon which to look critically and somewhat expertly at the political cartoons he or she encounters in the media. Students must supply their own drawing materials (expense, \$6 to \$10). (Limited to 25)

Winter Spec Term Sec 1 **M**—7-9, Jan 12-Mar. 9 (8 meetings; no meeting Feb. 16) JonesH 4, Wagner
No late fee through Jan. 5

(Pete Wagner is an award-winning political cartoonist, formerly of the Minnesota Daily and Madison Press Connection staffs, published in Time, the Washington Post, and over 300 college papers)

IC 0326 **VICTORIAN ENGLAND.** No credit, \$25.

This course will focus on England during the Victorian age, 1837-1901. The general overview will include the society, culture, religion, and politics of the times.

Winter Spec Term Sec 1 **Th**—7-9, Jan. 22-Feb. 12 (4 meetings) EltH N119, Altholz
No late fee through Jan. 15

(Josef Altholz is a professor in the history department)

IC 0327 **REVOLUTIONARY RUSSIA UNDER THE LAST CZAR: THE FALL OF THE RUSSIAN MONARCHY AND THE ORIGINS OF THE SOVIET REGIME.** No credit, \$29.

These lectures will concentrate on the first quarter of the 20th century and will discuss the process which brought to an end the 300-year rule of the Romanov Dynasty in Russia. Special emphasis will be placed on the comparison and contrast between the revolution of 1905 and the revolution of 1917, with the objective of using this as background for a better understanding of the establishment of soviet rule in Russia. An attempt will be made to deal with the perennial question: was Lenin really necessary?

Winter Spec Term Sec 1 **T**—6:30-8:30, Jan. 6-Feb. 3 (5 meetings) ForH 40, Stavrou
No late fee through Dec. 30

(Theoanis G. Stavrou is a professor in the history department)

IC 0330 **A LOOK BEHIND THE HEADLINES: IRAN, AFGHANISTAN AND THE MUSLIM EAST IN AN AGE OF REVOLUTION.** No credit, \$29.

The world of Islam is currently an object of interest and fear for many Americans. But the recent events which have attracted attention are the result of complex historical trends involving a score of nation-states and cultural groups. Beginning with a general description of the cultural geography of the Muslim world, this course provides a historical perspective on the institutions, attitudes and ideologies which influence the lives of both Muslims and non-Muslims. The history of the political relations of the West and the Muslim world will be given special attention so that the events which make news will be seen in a meaningful context.

Winter Spec Term Sec 1 **Th**—7-9, Jan. 15-Feb. 12 (5 meetings) NichH 213, Zanoni
No late fee through Jan. 8

(Candido Zanoni is professor and head, Arts, Communication & Philosophy, General College)

SPRING

IC 0318 **THE FABULOUS ISLAND CONTINENT ATLANTIS IN FACT AND FICTION.** No credit, \$30.

Facts and fiction related to the mythical utopian country which was said to have sunk in the Atlantic Ocean about 9600 B.C. (as described by Plato in his *Timaios* and *Kritias* dialogues) and its recent unexpected rediscovery as the Minoan Crete and Thera of the fifteenth century B.C. We will discuss the mythological, historical, geological, volcanological, and archeological investigations in older and modern literature, which, along with the Minoan art, provide the framework behind Atlantis' dramatic "extinction" and its ingenious rediscovery in the Aegean Sea. Fully illustrated with slides.

Spring Spec Term Sec 1 **T**—7-9, Mar. 31-May 5 (6 meetings) JonesH 207A, Tselos
No late fee through Mar. 24

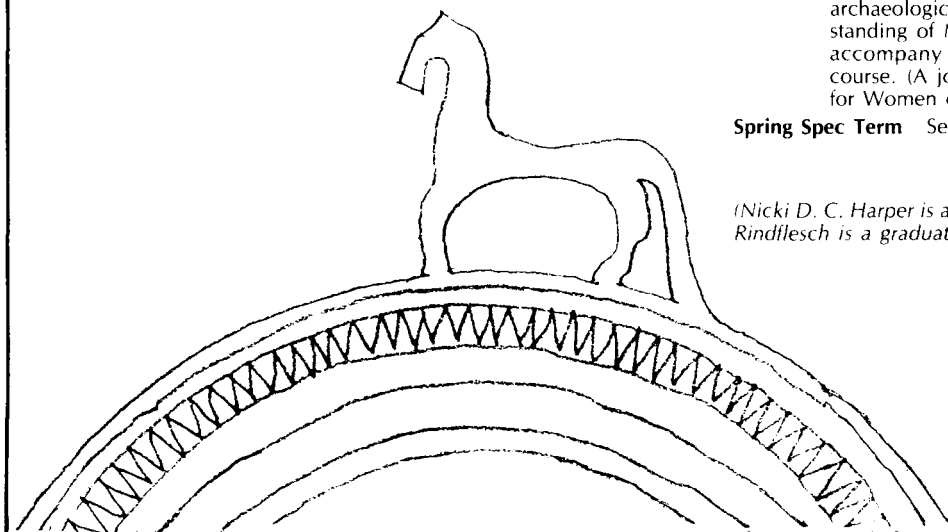
(Dimitri Tselos is professor emeritus in Art History)

IC 0322 **MINOAN CRETE: DISCOVERING AN ANCIENT CULTURE.** No credit, \$28.

Some claim Minoan Crete was the basis of legendary Atlantis. But Minoan civilization, with its unique art, its un-walled cities, its Priest-Kings and Mother Goddess is fascinating in its own right. The interpretation of the art and artifacts, decipherment of ancient texts, analysis of Minoan religion and city structure are all part of the fascination archaeological detective story which has led to our understanding of Minoan culture. Extensive use of slides will accompany the four lecture/discussions given in the course. (A joint Extension Classes/Continuing Education for Women class.)

Spring Spec Term Sec 1 **W**—7-9, Apr. 8-29 (4 meetings) ForH 130, Harper, Rindflesch
No late fee through Apr. 1

(Nicki D. C. Harper is a graduate student in ancient history and Tom Rindflesch is a graduate student in linguistics)



Personal growth and survival skills

FALL

★IC 0416 EFFECTIVE TIME MANAGEMENT. No credit, \$27.

There is an old saying, "If you want something done, ask a busy person to do it." That busiest person is an efficient manager of time. Learn the time management "tricks" that work for busy people. Discover new freedom through management of your total personal-work time. (Limited to 20)

Fall Spec Term Sec 1 **Th**—6:30-8:30, Oct. 9, 16, 23, 30
(4 meetings) Ramsey HS 239,
Roseville, Perlman
No late fee through Oct. 2

(Michelle Perlman is a Human Resources Consultant for Psyche, Inc. She has led many workshops and conferences locally and nationally in the area of interpersonal effectiveness)

★IC 0431 EXPOSITORY WRITING WORKSHOP—OR HOW TO WRITE WHEN YOU HAVE TO OR WANT TO BUT CAN'T GET STARTED. No credit, \$38.

In this refresher course, the emphasis is on defining the individual student's writing problems and suggesting ways of working toward improvement. It is aimed toward people whose work involves preparation of reports, memoranda, articles, papers, letters, and so forth, but who lack writing skills and confidence. The class will discuss such matters as defining the writing problem; organizing and fully developing ideas; keeping the intended audience in mind; using language wisely and economically; and reviewing writing with a critical eye. **Bring samples of your own writing—or of the kind of writing you are wanting to learn—to the first class meeting.** (Limited to 16)

Fall Spec Term Sec 1 **T**—7-9:30, Oct 7-Nov 11 (6 meetings)
WuH 130, Kell
No late fee through Sept. 30

(William Kell has taught writing, literature, and American culture courses, including an Informal Course on the American work ethic. At present he is assistant to the Dean of the Graduate School at the University)

★IC 0441 NEWSLETTER WORKSHOP. No credit, \$32.

Does your association, business, club, or organization issue a newsletter? Gain or improve your newsletter production skills by taking this workshop. Topics to be covered: the basics of journalistic writing; publication formats and processes; copy editing symbols and practices; writing various styles of headlines; handling of illustrations; and principles of page makeup and publication layout. This course is not a lecture series, but rather six laboratory sessions of instruction and supervised practice. (Limited to 24)

Fall Spec Term Sec 1 **T**—6:30-8:30, Oct. 7-Nov 11
(6 meetings) FolH 302, Sim, Wilson
No late fee through Sept. 30

(John Sim and Harold Wilson are professors in Journalism and Mass Communication)

★IC 0500 FAMILY COMMUNICATION. No credit, \$32 (\$64 per couple).

In a safe, open, and informal environment, couples will explore ways to enrich the marriage experience. Enrollees will have an opportunity to experience how male/female communication is influenced by traditional and nontraditional sex roles, language, space, touch, cultural expectations, and family of origin. Sexuality, taboos, personal needs, and power will be examined. Enrollees will develop techniques for evaluating relationships and for learning ways to manage and to resolve conflict. Theory and personal experience will be joined through role-playing, simulations, games, lectures, and group discussion. (Limited to 36 [18 couples])

Fall Spec Term Sec 1 **Th**—7-9, Oct. 9-Nov. 13
(6 meetings) NCCE Library, F. Amram,
B. Amram
No late fee through Sept. 30

(Fred Amram is professor of speech/communication in General College and a consultant/trainer in business and industry. Barbara Amram, former assistant professor in the University of Minnesota School of Social Work, is a school social worker in Bloomington and has a private practice in marriage and family counseling)

★IC 0522 COPING WITH GRIEF. No credit, \$32.

A class for persons who wish to learn more about and understand grief as well as for those who have actually experienced some kind of major physical loss—divorce, relocating, death, or separation—and want to learn more about coping. Weekly topics will include 1) Grief and Our Society, 2) Reaction to Loss, 3) Healthy and Unhealthy Grieving, 4) The Child's Grief, 5) Ways to Work Through One's Grief, and 6) Resource and Referral Programs that Help with Grief. (Limited to 30)

Fall Spec Term Sec 1 **M**—7-9, Oct. 13-Nov. 10 (5 meetings)
Ramsey HS 253, Roseville
No late fee through Oct. 6

IC 0532 HATHA YOGA I. No credit, \$32.

Yoga is a science of movement and posture, developed over the last 5,000 years. Through carefully planned exercises and meditation, the body becomes flexible, the nerves and glands are set into balance, and the mind is able to relax.

Fall Spec Term Sec 1 **M**—6:30-8:30, Oct. 6-Nov. 10
(6 meetings) DiehH 555,
Coulter, Sovik
No late fee through Sept. 29

(H. David Coulter is an assistant professor in the Department of Anatomy with expertise in anatomy and Hatha Yoga; Rolf E. Sovik is executive director of the Center for Higher Consciousness and has an advanced teacher certification from the Himalayan Institute Teachers' Association)

★IC 0540 THE GIFTED CHILD. No credit, \$55.

Explores issues involving "gifted" children. Specifically, we will consider the problem of defining and identifying such children (*Who are they?*). We will discuss research describing characteristics of gifted children (*What are they like?*). Major emphasis will be on educational and parenting problems and opportunities, using case studies raised by the instructor and class members (*What can we do for them?*). Students will read about and discuss current controversies about gifted children. (A joint Continuing Education for Women/Extension Classes class limited to 20 Extension students)

Fall Spec Term Sec 1 **W**—6:30-8:30, Oct. 8-Nov. 12
(6 meetings) JonesH 11, Keating
No late fee through Oct. 2

(Daniel Keating is an associate professor in the Institute of Child Development)

IC 0571 INDIVIDUAL AND FAMILY BUDGET PLANNING. No credit, \$25. (Second member of household \$10)

Learn to develop and manage your personal or family budget. You will acquire—on a basic level—the specific skills and abilities to use credit wisely, discriminate between your needs and wants in spending, set financial goals and develop contingency savings funds. Emphasis is on experiential learning. The budgeting experiences which you participate in and out of the classroom are designed to become part of your lifestyle immediately. **Confidentiality will be maintained throughout the course.** Materials will be provided at the first class meeting; no other textbook purchase is necessary. Class sessions vary in length from 1 to 2½ hours. The first session will be one hour in length.

Fall Spec Term Sec 1 **Th**—6:30-8:30, Oct. 2, 9, 16, 23,
Dec. 4 (5 meetings) FolH 209, Olson
No late fee through Sept. 25

(Carol Olson is the director of the Department of Community Programs, Continuing Education and Extension at the University of Minnesota)

IC 0574 SMALL LANDLORDS: RIGHTS, REMEDIES, AND OBLIGATIONS TO TENANTS. No credit, \$47.

Intended for landlords and landladies who own small rental income properties. There are no prerequisites for the course; the course is designed specifically for laypersons, i.e., those who have had no previous legal courses. The following topics will be included: What to do before the tenant moves in; leases and rental agreements; Landlords' rights, remedies, and obligations; Tenants' rights and obligations; Who is responsible for making repairs, and redecorating; Housing code; Liability for personal injuries; Landlord identification; abandonment by tenant; Eviction by landlord; Unlawful detainer; Constructive eviction; What to do immediately before and after tenant moves out; Security deposits—prepayment of rent; and use of conciliation court. (A joint Extension Classes/Continuing Education for Women class)

Fall Spec Term Sec 1 **M**—6:30-9, Sept. 29-Nov. 17
(8 meetings) ForH 150, Fairburn
No late fee through Sept. 23

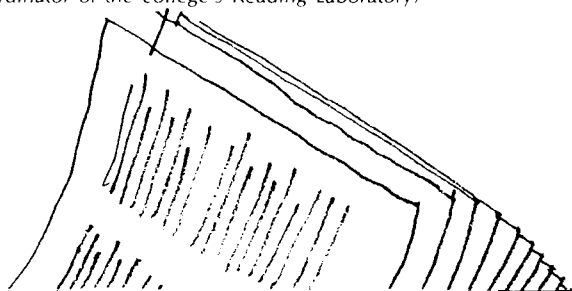
(Shirlene A. Fairburn is a practicing attorney in Minneapolis and a graduate of the University of Minnesota Law School)

★IC 0590 HOW TO READ FASTER AND BETTER. No credit, \$32.

To help you read as fast as you want to read. The course will show you techniques for reading faster and for getting more out of what you read. You will learn how reading can increase your personal pleasure and improve your business efficiency. Class sessions will include 1) stretching your reading units to build a foundation for all speed work, 2) discovering word signals, signposts in reading, 3) grasping details readily and waking up your memory to recall what you've read, 4) gaining skills in how to get more from a newspaper in less time, 5) learning how to detect propaganda and how to analyze it, and 6) deciphering legal terms to take the bugaboo out of confusing documents. (Limited to 30)

Fall Spec Term Sec 1 **T**—7-9, Oct. 7-Nov. 11 (6 meetings)
ForH 40, Gidmark
No late fee through Sept. 30

(Jill Gidmark is an assistant professor in the General College and the coordinator of the college's Reading Laboratory)



Free Library Course

Knowing how to use the library efficiently is essential for students researching a term paper or searching for a particular book or periodical. Students sometimes spend a lot of time looking for materials that aren't so difficult to find if they know where to begin.

This is a free, two-night course, offered by Extension Classes in cooperation with MINITEX (Minnesota Interlibrary Telecommunications Exchange). No preregistration is necessary. Instructor for the course is Marcia Pankake, an assistant professor in Wilson Library.

Part I EVERYONE'S GUIDE TO THE WHOLE LIBRARY

Various means of access to library resources—how to find out what is in journal literature, government publications, and

other reference tools. This knowledge will help in completing class assignments and in using the library to your advantage in researching materials. **See dates under Part II.**

Part II THE WHOLE LIBRARY IS MORE THAN THE SUM OF ITS PARTS

Focus on how resources are organized within various subject areas. This knowledge will help you get right to the information you need, even if you don't know the subject very well. This session can be a helpful "how to" if you have to write short papers or a term paper, or if you need to find out more about a topic for an upcoming exam.

Fall Qtr **Th**—Oct 2, 9, 6:30-9, SocSci 101, Pankake
Winter Qtr **W**—January 7, 14, 6:30-9, BlegH 5, Pankake
Spring Qtr **Th**—April 2, 9, 6:30-9, Law 40, Pankake

**Free
Back-to-School Workshop
February 2 and 9, 1981**

If you have been thinking about going back to school and don't know where to begin, this informal workshop is for you. Whether you have had some college or none at all or if you are thinking about exploring a career change, you will find answers to questions about courses, degrees, certificates, financial aids, and other student services. Find out how vocational testing can help you get started. A tour of campus and Wilson Library will help acquaint you with the University.

If you are not confident about how to study, find out what kind of help you need. You'll learn about free tutoring in note taking, outlining, theme writing, reading, grammar, or whatever help you need to complete a course.

The workshop is informal with plenty of time for questions and answers. Parking at indoor rates is usually available in the underground garage of the same building where the workshop

meets. Or park outside about a block and a half away in the pay lot on 4th Street at 17th Avenue S.E. If you are not familiar with campus, call for directions and a map: **376-7500**.

The 2-session workshop will be held Mondays, February 2 and 9, from 7 to 9 p.m. in room 140 of the Nolte Center, on the corner of Pillsbury Drive and Church Street (17th Avenue S.E.)

Susan Bohnenstingel, a Continuing Education and Extension counselor, will be there to tell you about opportunities in Extension Classes, Independent Study correspondence and media courses, Continuing Education for Women programs, and a host of other Continuing Education opportunities at the University.

Sandra Dylla, an assistant professor in the General College and director of the Study Skills Center, will answer questions about study skills help and demonstrate in small groups the tutoring program available.

To add your name to the registration list for this free workshop, just give us a call at:

376-7500

WINTER

IC 0525 WELLNESS SERIES. No credit, \$32.

Personal wellness must be actively pursued and developed by each individual. This series will present an overview of wellness lifestyle components to consider for your own health. We will explore the principles of self care and responsibility, stress management, family and reproductive health and nutrition and eating behavior. Opportunities for self-evaluation and goal setting will be provided at each session. This series is coordinated by the Wellness Education Program of the Childbearing Childrearing Center.

Winter Spec Term Sec 1 **W**—7-9, Jan. 7-Feb. 11 (6 meetings)
ForH 130, Hopkins
No late fee through Dec. 31

(Kathy Hopkins is the consumer coordinator for the Childbearing Childrearing Center)

★IC 0531 YOGA: PRACTICE AND PHILOSOPHY. No credit, \$32.

The Yoga tradition, codified by the Indian sage Patanjali, is a systematic method of self-unfoldment. Yoga practices include the careful observation and gradual mastery of elements of the personality; body movement and posture, breathing, physical and mental relaxation, and the nature of mind and consciousness. Course will give beginning practices in physical yoga and meditation; lecture on history and philosophical concepts. (Limited to 30)

Winter Spec Term Sec 1 **M**—6:30-8:30, Jan. 5-Feb 9,
(6 meetings) DieH 555,
Coulter, Keshaviah, Sovik
No late fee through Dec. 29

(H. David Coulter is an assistant professor in the Department of Anatomy with expertise in "Anatomy and Hatha Yoga," Prakash R. Keshaviah is a biomedical engineer in the Regional Kidney Disease Program and a disciple in the yoga tradition, and Rolf E. Sovik is executive director of the Center for Higher Consciousness and has an advanced teacher certification from the Himalayan Institute Teachers' Association)

IC 0572 BASIC INCOME TAXATION. No credit, \$38.

This course will provide a guide through the morass of federal and state income tax law, for persons with no formal training in tax law. We'll outline the laws and translate the terminology into understandable terms. Basic concepts of computing taxable income will be covered, as will tax aspects of small investments and elements of planning to minimize taxes in common transactions. Course does not cover estate, gift or inheritance taxation.

Winter Spec Term Sec 1 **T**—7-9, Jan. 6-Feb. 10
(6 meetings) FolH 202, Weikart
No late fee through Dec. 30

(Neil Weikart is a practicing attorney and lecturer in General College)



SPRING

★IC 0441 NEWSLETTER WORKSHOP. No credit, \$32.

Does your association, business, club, or organization issue a newsletter? Gain or improve your newsletter production skills by taking this workshop. Topics to be covered: the basics of journalistic writing; publication formats and processes; copy editing symbols and practices; writing various styles of headlines; handling of illustrations; and principles of page makeup and publication layout. This course is not a lecture series, but rather six laboratory sessions of instruction and supervised practice. (Limited to 24)

Spring Spec Term Sec 2 **T**—6:30-8:30, Apr. 7-May 12
(6 meetings) MurH 302, Sim, Wilson
No late fee through Mar. 31

(John Sim and Harold Wilson are professors in Journalism and Mass Communication)

★IC 0517 PUBLIC SPEAKING. No credit, \$32.

Basic communication and rhetorical theory as it applies to public speaking. For business, professional, religious, civic leaders, and anyone wanting to learn and apply effective speaking principles. Weekly presentations involve practice in getting and holding audience attention, developing ideas, feeling "at home" on the platform, and using voice and body effectively in delivering the speech. (Limited to 25)

Spring Spec Term Sec 1 **M**—Apr. 6-May 11, 7-9, (6 meetings)
ChDev 216, Hansen
No late fee through Mar. 30

(Evelyn Hansen is a professor of speech/communication in the General College)

IC 0532 HATHA YOGA I. No credit, \$32.

Yoga is a science of movement and posture, developed over the last 5,000 years. Through carefully planned exercises and meditation, the body becomes flexible, the nerves and glands are set into balance, and the mind is able to relax.

Spring Spec Term Sec 2 **M**—6:30-8:30, April 6-May 11
(6 meetings) DiehlH 555,
Coulter, Sovik
No late fee through Mar. 30

(H. David Coulter is an assistant professor in the Department of Anatomy with expertise in anatomy and Hatha Yoga; Rolf E. Sovik is executive director of the Center for Higher Consciousness and has an advanced teacher certification from the Himalayan Institute Teachers' Association)

IC 0538 MANAGING YOUR OWN FUTURE. No credit, \$25.

Designed for persons interested in planning for and taking charge of their personal futures. Projections regarding housing, leisure, transportation, health care and finances will be discussed. With these projections in mind, students will set personal goals; consider values concerning housing, transportation and leisure time; and learn about their personal style in responding to change. Economic forecasting and alternative financial strategies will be emphasized. Persons who are over age 40 may be interested in taking the class as they look forward to the retirement years. Resource speakers from the various disciplines will be used.

Spring Spec Term Sec 1 **T**—6:30-8:30, Apr. 21, 28, May 5, 12
(4 meetings) JonesH 11, Johnson
No late fee through Apr. 14

(Carol Johnson is director of the Older Adult Program, Continuing Education and Extension, at the University of Minnesota)

★IC 0573 WILLS AND ESTATES: INFORMAL APPROACHES TO PEACE OF MIND. No credit, \$21.

Are you thinking about writing a will? Concerned that your estate be administered according to your wishes? This course will attempt to cut through the confusion which surrounds wills and probate and to clarify some of the issues and procedures involved. We will discuss the inheritance of property after death, the reasons for and legal requirements of wills, and the procedures involved in administering a decedent's estate. (Limited to 45)

Spring Spec Term Sec 1 **Sa**—10 a.m.-12, April 11-25
(3 meetings), NichH 109, Hower
No late fee through Apr. 3

(Dennis R. Hower is an associate professor in the General College and an attorney at law)

★IC 0576 FARM MANAGEMENT FOR THE ABSENTEE LANDOWNER. No credit, \$47.

Designed for the absentee landowner, persons considering purchase of a farm, or those who may some day inherit one. Course content provides up-to-date management information and techniques so that: (1) persons considering purchase or sale of a farm will make better informed decisions and (2) absentee landowners will be able to take a more active and better informed role in establishing cash and crop-share rental arrangements in working with their tenants. Sessions also include discussions of current crop production costs, income and estate taxes, choosing and working with the right tenant, buying and selling a farm, evaluating rental arrangements, and other selected topics. (Limited to 40)

Spring Spec Term Sec 1 **Th**—7-9:30, Apr. 2-May 21
(8 meetings) ClaOff B35,
StP Campus, Hasbargen, Thomas
No late fee through Mar. 26

(Paul R. Hasbargen and Kenneth H. Thomas are Extension Economists in Farm Management in the Agricultural and Applied Economics Department)



IC 0577 GETTING STARTED IN PART-TIME FARMING. No credit, \$47.

For the person or family considering a move to the country with a possibility of part-time farming as a hobby or supplemental income source. Topics include the pros and cons of a part-time farming lifestyle; tax management and the potential tax savings of owning one's own business, including what to do from a tax standpoint when purchasing a farm. Enterprise selection—the relative economic merits of various crop and livestock enterprises; where to go for professional help and sources of information of use in getting started as a part-time farmer. Marketing problems and potentials. The economics of purchasing machinery versus hiring others to work for you. The legal side of farming; insurance, finance, estate planning considerations. What to look for in buying farm property, inflation considerations, location, soil types and determining your maximum bid price for land.

Spring Spec Term Sec 1 **Th**—7-9:30, Apr. 2-May 21 (8 meetings) ClaOff B30, StP Campus, Fuller, Benson
No late fee through May 26

(Earl Fuller and Fred Benson are Extension Economists in Farm Management in the Agricultural and Applied Economics Department)

IC 0578 RECLAIMING A PERSONAL PAST: WRITING THE HISTORY OF YOUR FAMILY. No credit, \$32.

Details about the lives of family members and circumstances in which they lived can provide a fuller, more rewarding acquaintance with ancestors who would otherwise remain strangers. This course provides direction for individuals who want to prepare a personal history of their families. Topics covered will include: locating and using sources inside and outside the home; conducting and interpreting interviews; organizing and writing the history; relating personal experiences to outside historical events and trends; and physical preservation of family photographs and documents (taught using a hands-on workshop). Many persons who want to understand more about their heritage have charted names, births, deaths, and marriages to fill in the family tree, sometimes going back many generations. But understanding requires more than such skeletal facts.

This class will *not* teach students how to prepare a genealogical chart, nor is it necessary to have worked on one prior to taking this course. (A joint Extension Classes/Continuing Education for Women class)

Spring Spec Term Sec 1 **Th**—7-9, Apr. 2-May 7 (6 meetings) NichH 211, Klaassen
No late fee through Mar. 26

(Dave Klaassen is the acting curator, Social Welfare History Archives)

★IC 0581 SPANISH FOR TRAVELERS. No credit, \$28.

A survival course for those with no previous knowledge of Spanish. Will provide you with the basic Spanish vocabulary necessary for coping with everyday travel situations: changing money, obtaining train tickets and information, renting hotel rooms, shopping, ordering meals, asking directions, understanding telephones, post offices, and public transportation systems. Increased knowledge of Spain, Latin America, and of Hispanic culture will help you travel more adventurously and more economically. Emphasis will vary from area to area within the Hispanic world. (A joint Extension Classes/Continuing Education for Women class limited to 16 Extension students)

Spring Spec Term Sec 1 **M**—7-8:40, Apr. 6-May 11 (6 meetings) FolH 104
No late fee through Mar. 30

★IC 0582 FRENCH FOR TRAVELERS. No credit, \$28.

A survival course for those with no previous knowledge of French. Will provide you with the basic French vocabulary necessary for coping with these everyday travel situations: changing money, obtaining train tickets and information, renting hotel rooms, shopping, ordering meals, asking directions, understanding telephones, post offices and public transportation systems. Increased knowledge of French and of French culture will help you travel more adventurously and more economically. (A joint Extension Classes/Continuing Education for Women class limited to 16 Extension students)

Spring Spec Term Sec 1 **W**—7-8:40, April 1-May 6 (6 meetings) FolH 209
No late fee through Mar. 25

Math Anxiety Program

The Math Anxiety Program is designed especially for people who are afraid of mathematics or who encounter blocks in mathematics. Through a combination of course work and supportive services students can overcome their fear of mathematics and master the level of mathematics they need or want. The program helps students deal with their attitudes and feelings about math at the same time they are working on their math skills.

The program is offered through Continuing Education for Women in cooperation with Extension Classes and the General College. Men and women are welcome. **For further information about exact times, dates and locations and for registration call 373-9743 or write 200 Westbrook Hall, 77 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455.**

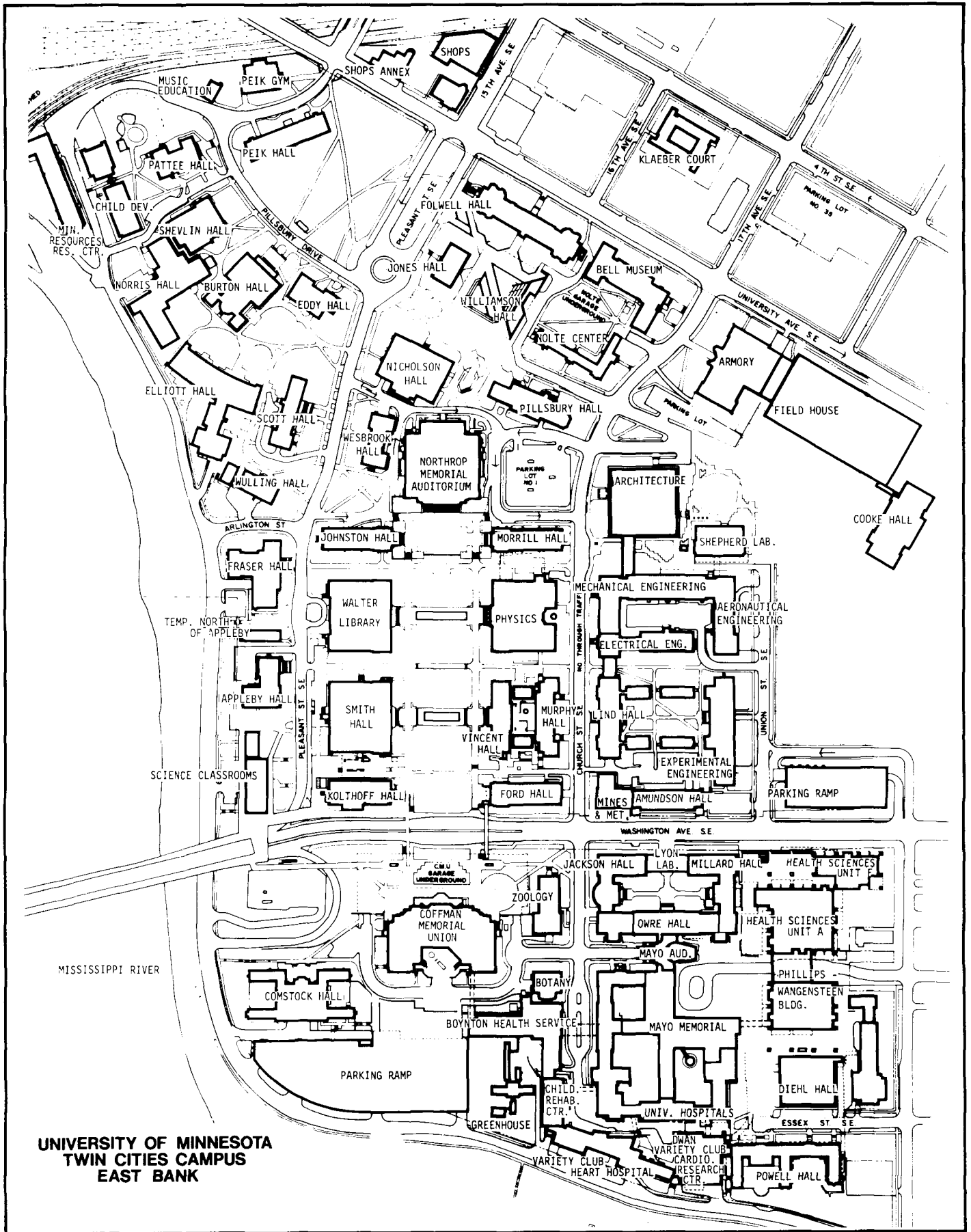
The *Math Anxiety Diagnostic Clinic* is the first step of the program. Tests and questionnaires are used to help students assess math skills and level of math anxiety. The Clinic will explore math anxiety, how it develops and how it affects math performance. Students will be advised of test results by mail. The Math Anxiety Diagnostic Clinic will be held on Tuesday,

September 9, and Wednesday, January 28, 6-9:30 p.m. on the Minneapolis campus. The fee is \$14. Advance registration is required.

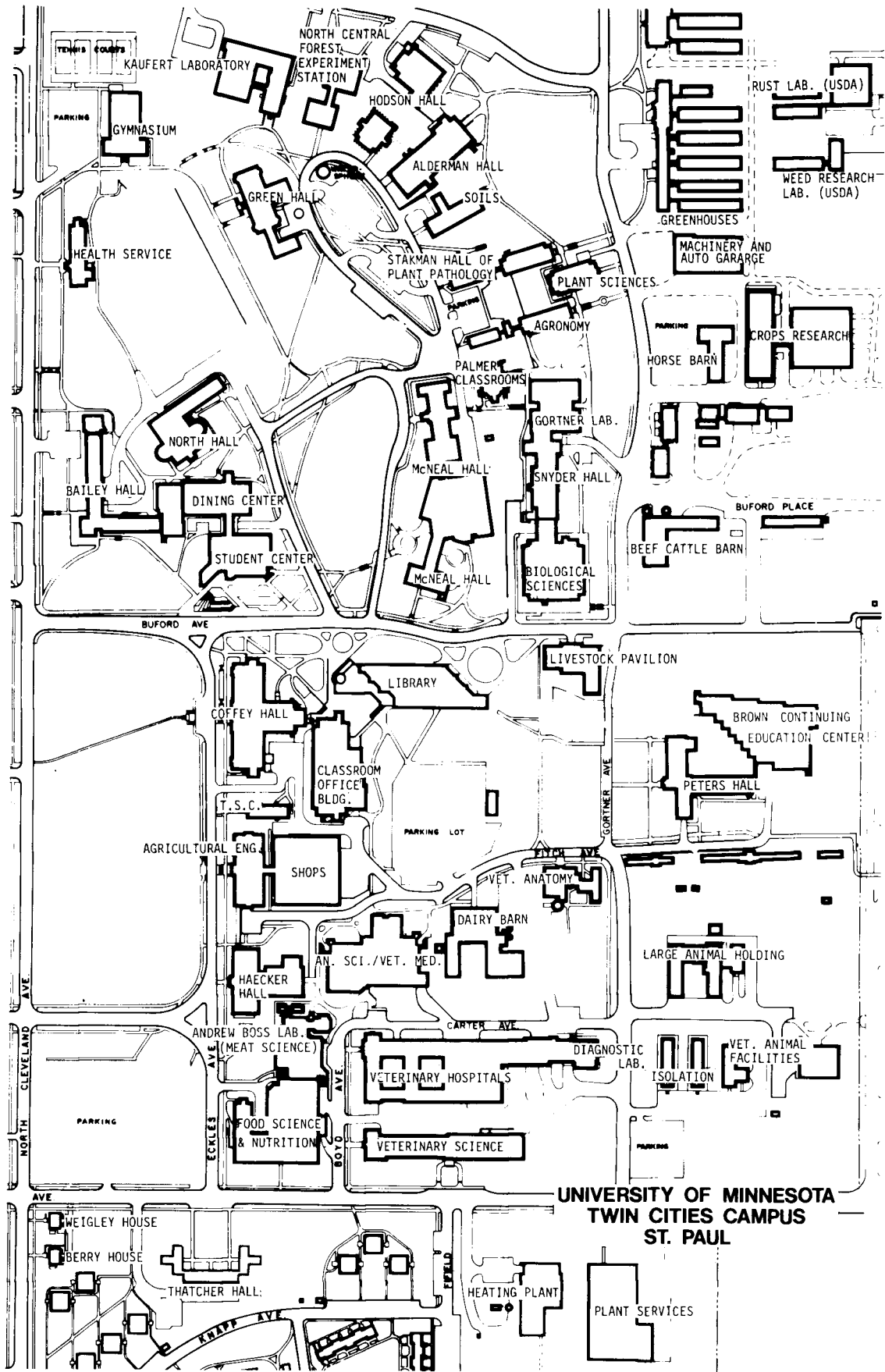
The *Math Anxiety Support Group* will work with participants in examining their blocks in math, attitudinal change, test anxiety and mechanisms to deal with math anxiety. Participants must have participated in the Math Anxiety Diagnostic Clinic and are encouraged to register for a math class at the same time. The support group will meet six sessions, 1½ hours per session. The fee is \$20.

Arithmetic and Elementary Algebra, a noncredit class, will be offered in conjunction with the program. The class will provide individualized instruction in basic arithmetic processes, fractions, decimals, exponents, percentages, setting up word problems into algebraic form. Students proceed at their own rate. The class will be held Wednesday evenings, 6:30-9, fall semester on the Minneapolis campus, and Wednesday evenings, 6:30-9, spring semester on the Minneapolis campus. Instructor is Doug Robertson.

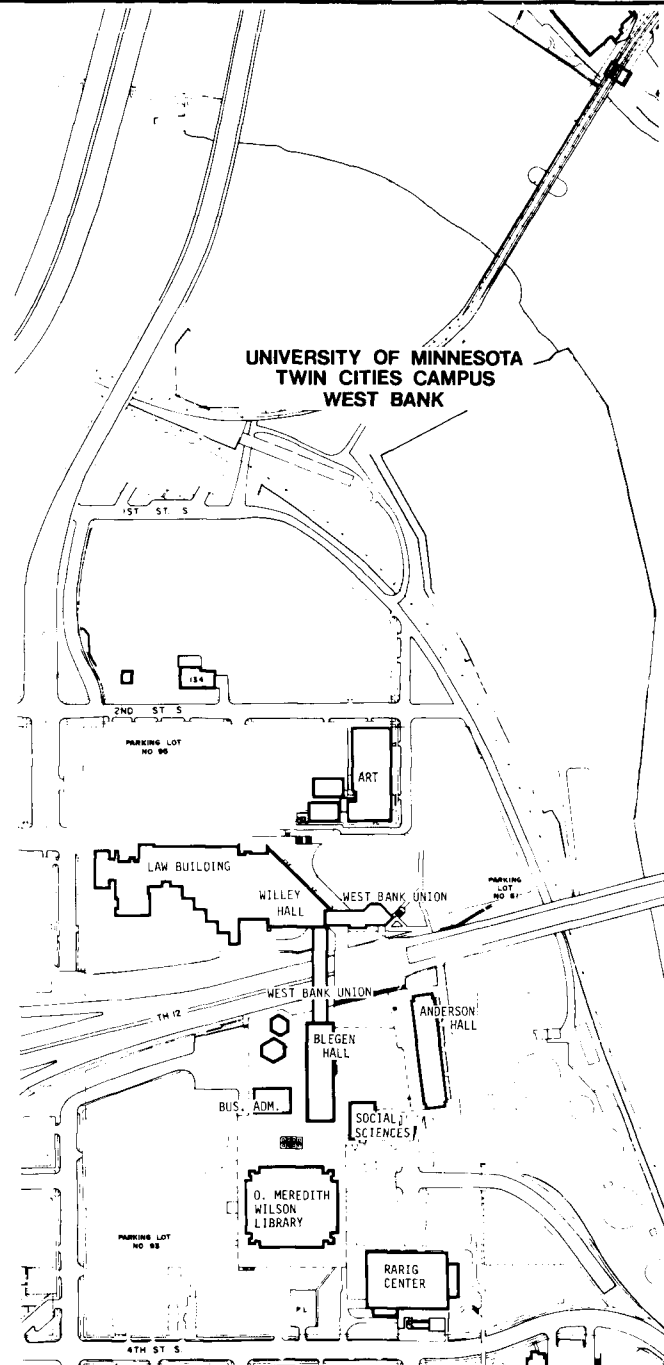
UC 1445, *Intermediate Algebra* (5 credits), is offered as part of the Math Anxiety Program.



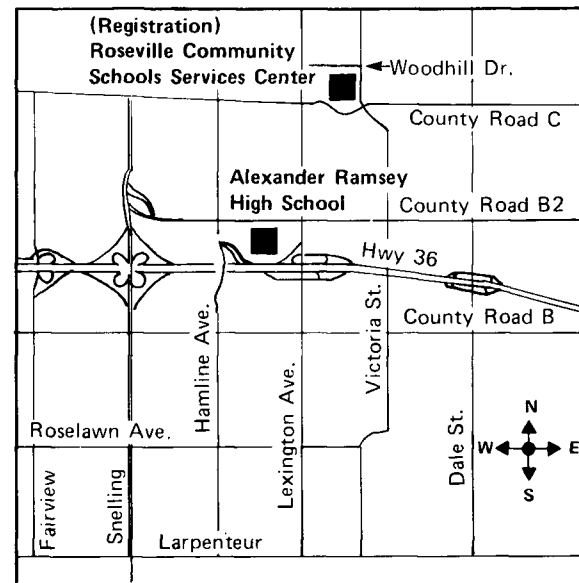
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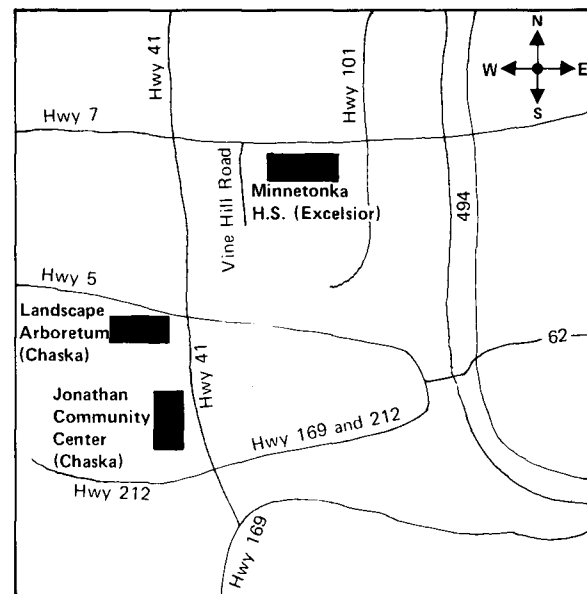
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(Registration)
Roseville Community
Schools Services Center

Alexander Ramsey
High School

Ramsey High School
1261 W. Hwy. 36, Roseville 55113



Minnetonka
H.S. (Excelsior)

Minnetonka High School
18301 Hwy. 7, Minnetonka 55343

Registration Forms


Fill out one registration form for each person. Make checks payable to the University of Minnesota, and mail both check and registration form to:


Informal Courses
 University of Minnesota
 180 Westbrook Hall
 77 Pleasant Street S.E.
 Minneapolis, Minnesota 55455


If a course with a limited enrollment is closed, you will be notified by mail, and your check returned.

If you need more registration forms call:

376-7500

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			MONTH	DAY	YEAR
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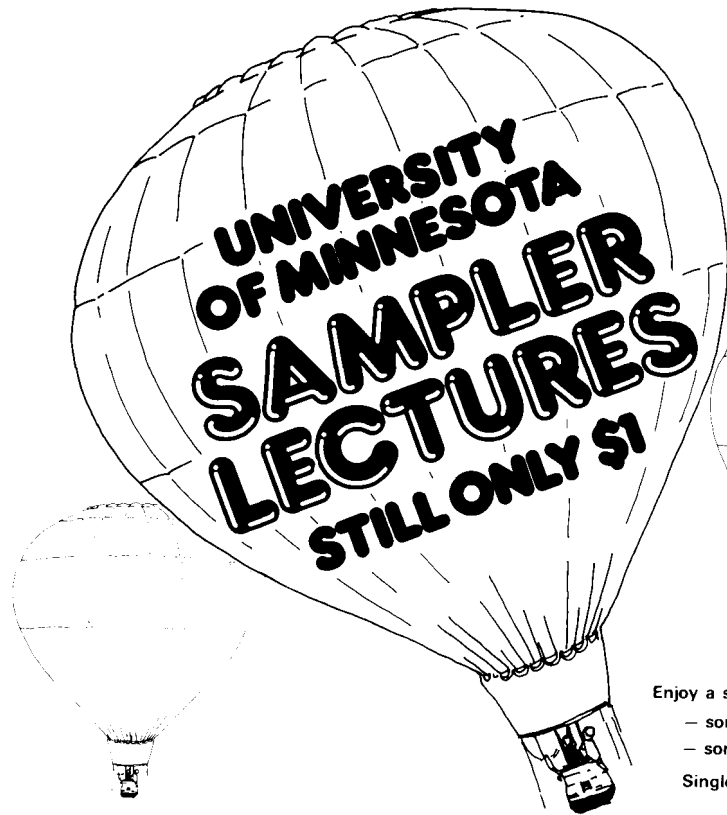


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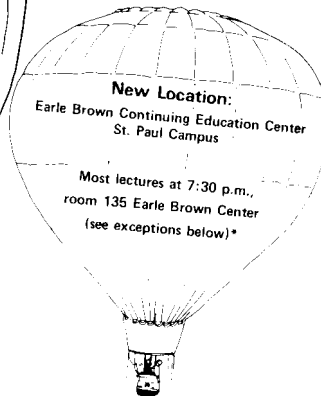
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Tuesday</p> <p>October 28
Tuesday</p> <p>October 29
Wednesday</p> <p>November 6
Thursday</p> <p>November 11
Tuesday</p> <p>November 18
Tuesday</p> <p>November 19
Wednesday</p> <p>November 25
Tuesday</p> <p>December 2
Tuesday</p> <p>December 9
Tuesday</p> | <p>UNTIL A SUPER NOVA DO US PART: THE LIFE OF A BINARY STAR <i>(This lecture will be held at 7 p.m. in the Small Auditorium, Minnetonka High School, 18301 Highway #7, Minnetonka)</i>
by Vincent Icke, Astronomy Department</p> <p>SOCIAL SECURITY REFORM: MAKING IT SECURE
by John Helmberger, Economics Department</p> <p>FREE-LANCING AT HOME: THE WRITER'S MARKET FOR MAGAZINE ARTICLES
by Nancy Roberts, Journalism Department</p> <p>WHAT ARE THE REAL ECONOMIC ISSUES FACING THE AMERICAN PEOPLE? <i>(This lecture will be held at 7 p.m. in room 129, Parkview Junior High School, 701 West County Road B [at Dale], Roseville)</i>
by Harlan Smith, Economics Department</p> <p>CONTEMPORARY POLITICS: THE WEST GERMAN ELECTIONS
by Frank Hirschbach, German Department</p> <p>ELECTION '80: THE END OF LIBERALISM?
by Bill Morris, Political Science Department</p> <p>IMMIGRATION TO THE IRON RANGE AND NORTHEASTERN MINNESOTA, 1880-1920
by Mike Karni, The General College</p> <p>MOUNTAINEERING: HOW TO DO IT AND WHERE TO GO
by Leo McAvoy, Recreation, Park and Leisure Studies Department</p> <p>THE NEIGHBORHOOD MOVEMENT AND THE NEW URBAN POPULISM
by Harry Boyte, American Studies Department</p> <p>THE STAR OF BETHLEHEM
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by Deborah Boehm and J. Pamela Weiner, Childbearing Clinic</p> <p>WHAT WAS THOREAU DOING AT WALDEN POND?
by John Dolan, Philosophy Department</p> <p>INSULTS TO A GENOME: ASSESSING THE GENETIC RISKS OF RADIATION, CHEMICALS AND OTHER ENVIRONMENTAL HAZARDS
by C.B. Whitley, Genetics and Cell Biology Department</p> <p>THE TRAVELING SALESMAN PROBLEM AND OTHER EXCURSIONS INTO COMBINATORIAL OPTIMISATION
by Edward McCall, Computer Science Department</p> |
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