

Pacific Lutheran University
INTERIM 1977
January 3-28, 1977



Galaxies

CONTENTS

The Interim Committee encourages students to talk with professors about their courses prior to enrolling. Such dialogue may well benefit both instructor and student in approaching the Interim with enthusiasm, commitment, and a greater understanding of the direction a course might take during the four weeks of intensive study.

Address Inquiries About Interim to:

Ms. Sue K. Clarke
Interim Coordinator
Pacific Lutheran University
Tacoma, Washington 98447

THE INTERIM COMMITTEE

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Assistant Professor of Psychology

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Economics and Mathematics

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Sue K. Clarke
Interim Coordinator and
Administrative Assistant to the Provost

Galaxies

*“..any
splendid
assemblage...”*

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY

RECEIVED
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FROM
DR. J. H. GOLDSTEIN
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Galathea

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INTERIM COURSES AND REQUIREMENTS

INTERIM COURSES AND REQUIREMENT: Courses numbered 300-320 satisfy the Interim requirement. Two 4-semester-hour 300-320 Interim courses are required for graduation. A few 300-320 Interim courses may be offered for less than 4 semester-hours credit; a combination of these smaller courses may be used, when available, to meet part of the basic 8-semester-hour requirement. Junior or senior transfer students need complete only one 300-320 Interim course (4 semester hours).

CORE REQUIREMENT: During the Interim month of January a limited number of courses are offered to meet the core requirement. These courses have numbers outside the 300-320 bracket, are identified in the course descriptions, and will not meet the Interim requirement. These courses will be graded in the manner of regular courses.

MAJOR REQUIREMENTS: Interim courses, for the most part, have been designed for the non-major even when a prerequisite is recommended. However, some 300-320 Interim courses are designed for major or advanced students and are so designated in the course description (only one such course may be used to meet the two-course Interim requirement). A 300-320 Interim course may be counted toward a major, as well as toward the Interim requirement, at the discretion of the chairman (dean, director) of the major department or school.

ELECTIVES: The third and fourth Interim courses taken (more than 8 semester hours of Interim courses) may count as electives toward the 32 course total required for graduation.

UPPER DIVISION REQUIREMENT: Courses numbered 300-320 will not meet the upper division requirement. However, courses numbered above 320 will meet the requirement.

INTERIM COURSES AND THE TEN-COURSE LIMIT: "Advanced" Interim courses should be included in the 10-course limit of the College of Arts and Sciences. All other 300-320 Interim courses should not be included in that limit.

GRADING

The instructor of a 300-320 Interim course will indicate in the catalog description which of two grading systems will be used:

1. Honors (H) — for exceptional work; Pass (P); No Credit — the registration will not be recorded. (H and P do not affect g.p.a.)
2. The regular letter grades: A, B, C, D, E. (Such grades contribute to the g.p.a.) The student in a "regular letter-grade" course may use one of his or her four pass/fail options.

Courses meeting the core requirement and other courses not numbered 300-320 shall be graded in the manner of regular courses.

REGISTRATION

October 25-27 Seniors only
October 28-November 12 All students
November 8-12 Change of registration
January 3-5 Registration and changes
Class schedule will be confirmed at the time of registration.

SPECIAL PROCEDURES FOR OFF-CAMPUS COURSE REGISTRATION

Secure off-campus information forms from directors of individual off-campus courses any time after September 8. Complete registration as noted above. In addition, 10 percent of the cost of the course must be paid to hold a place in the class and must in any case be paid at the time of registration. Final payment must be made by December 1.

EXPENSES

Regular Fees:

Tuition — \$84.00 per semester hour.

4 semester hours \$336.00
Audit \$50.00
Board \$80.00
Students required by their academic coursework to be off campus for more than a week at a time will receive financial consideration for meals missed.
Room \$50.00
(Charged only to students who do not reside on campus during Fall semester)
Change of registration fee \$5.00

Special Fees:

Students are advised that some courses will require additional or incidental fees. Information concerning these fees is noted in the course description in the catalog. Listed costs for Interim opportunities are as accurate as possible; however, alterations may unavoidably occur. Please check with the instructor of the course if you have questions concerning listed costs. In all instances, additional funds will be necessary for personal expenses, as is true throughout the school year.

Tuition Refund Rates:

100% refund January 3-5
No refund After January 5

During the 100% refund period, a \$5.00 fee will be charged for any change that does not increase the credit hour load.

The audit fee is non-refundable. An add-drop fee will not be charged for withdrawing from a course being audited.

INSURANCE

The University makes available a voluntary insurance plan for all students, whether full or part-time. The plan covers serious illness or injury requiring treatment or surgery anywhere in the world and gives maximum coverage for a minimum premium. It may be purchased in the Business Office only during registration periods.

Students in any of the following categories or activities are *required* to enroll in the plan or provide evidence to the University of similar coverage through another source:

1. All foreign students.
2. All students participating in off-campus Interim courses or courses with field trips extending overnight.
3. All students (men and women) enrolling in ski class, ski club, extramural, or other sports.

GUIDELINES FOR INTERIM EXCHANGE OPPORTUNITIES

The exchange program offers students the opportunity to study during January in many other parts of the country. Students interested in such programs will find catalogs available in the Office of the Interim Coordinator (within the Registrar's Office). Requests for application to participate in an exchange on another campus should be directed to the same office prior to November 15. There is a \$5.00 non-refundable fee.

The exchange program is open to sophomores, juniors, and seniors with a cumulative grade point average of 2.00 or better and to freshmen by special permission of the Provost.

STUDENTS ARE ADVISED TO CHECK THE CREDIT VALUE OF COURSES AT OTHER INSTITUTIONS. PACIFIC LUTHERAN UNIVERSITY CANNOT GRANT MORE CREDIT THAN THE HOST INSTITUTION GRANTS. If a full course (4 semester hours) is needed to complete a degree program, the student should be certain the course carries 4 semester hours credit or equivalent.

The Interim tuition fee will be charged all PLU students participating in an exchange (\$336.00). Board and room fees will be paid at the host institution according to its fee schedule.

PLU students participating in an exchange are also required to carry health and accident insurance which will cover them 24 hours a day (see INSURANCE section).

In the past years the following institutions have cooperated with PLU in exchange opportunities. *Many other schools would be willing to do so upon request.* Check the special files in the Registrar's Office to look at catalogs and brochures. Applications are available and should be filed with the Interim Coordinator in the same office.

Augsburg College, Minneapolis, MN
Augustana College, Sioux Falls, SD
Austin College, Sherman, TX
Bethel College, St. Paul, MN
California Lutheran College, Thousand Oaks, CA
Calvin College, Grand Rapids, MI
Capital University, Columbus, OH
Dana College, Blair, NB
Denison University, Granville, OH
Fort Wright College, Spokane, WA
Gustavus Adolphus College, St. Peter, MN
Hamline University, St. Paul, MN
Hastings College, Hastings, NB
Illinois Wesleyan University, Bloomington, IL
Jamestown College, Jamestown, ND
Luther College, Decorah, IA
Macalester College, St. Paul, MN
Russell Sage College, Troy, NY
St. Olaf College, Northfield, MN
Salem College, Winston-Salem, NC
Sheldon Jackson College, Sitka, AK
Texas Lutheran College, Seguin, TX
Thiel College, Greenville, PA
University of Puget Sound, Tacoma, WA
University of Redlands, Redlands, CA
Whitworth College, Spokane, WA

TRAVEL OPTIONS IN JANUARY

In addition to off-campus studies offered at PLU, other institutions, in all parts of the world and the United States, provide travel-study options during the month of January. Check the special files in the Registrar's Office to look at catalogs and brochures. The Interim Coordinator is available to help you follow up.

ACTIVITIES AND EVENTS DURING INTERIM

During the Interim, students and faculty alike share their time, skills, and knowledge with each other in a program of educational enrichment. There has been instruction and interest sharing in such varied areas as the following: Swahili, sailing, back massage, Christian growth and evangelism, kite-making, job search techniques, and bread-baking. In addition there are lectures, concerts, plays, dance workshops, and films. Most of the events are well attended and enthusiastically received.

An effort is being made to expand these kinds of happenings for January 1977. If you would like to contribute your time and talents or would like to make a special request for the scheduling of an event, please contact the Interim Coordinator (in the Registrar's Office).

In addition, the Interim Committee encourages professors to share special lectures, discussions, and films with members of the campus community. If you would like to invite students, faculty, and staff outside your class to attend a special session, please do so in the Campus Bulletin (University Center, ext. 403). If you know early in the Fall that you will be inviting outsiders to participate in your class, please notify the Interim Coordinator and such information can be listed in other publications.

A special calendar of events for the month of January will be published in early December.

UNIVERSITY CHAPEL

Chapel is a time set apart for hearing the Gospel proclaimed in the midst of daily life and for giving praise to God. A variety of services will be used including both traditional and contemporary liturgies. Brief meditations are frequently offered by the University Ministers or special guests.

University Chapel meets during Interim from 8:30 to 9:00 a.m. on Tuesdays and Thursdays in Chris Knutzen Hall (University Center). Stop in between breakfast and class!

LIBRARY HOURS

Monday thru Thursday 8:00 a.m. - 11:00 p.m.
Friday thru Saturday 8:00 a.m. - 9:00 p.m.
Sunday 1:00 - 11:00 p.m.

COURSE NUMBERING

The numbers 300-320 designate all courses unique to the Interim.

All courses with catalog numbers outside the 300-320 range will be treated as regular courses with reference to University requirements and grading practices.

COURSE LOAD

The maximum course load during the Interim is 1½ courses (5 semester hours). A student should have the approval of the instructor of his 4-hour course before enrolling in an additional 1-hour course. A student may not register for more than 5 semester hours unless given special permission by the Provost and by all instructors involved.

PLAN OF ACTION

Students may "be on campus" without registering for a course, provided their general program of activity is approved by their advisor and submitted to the Office of the Registrar. Such a program shall not receive credit, be counted toward the graduation requirements, or appear on the transcript. Plans must be submitted no later than December 1. Applications are available in the Registrar's Office.

INDEPENDENT STUDY/RESEARCH

Most of the departments/schools of Pacific Lutheran University are prepared to implement individual study/research projects. The Interim Committee must approve all independent study courses proposed to meet the Interim requirement. Such courses will be designated by the number 320. Independent studies which do not meet the Interim requirement will assume the number the individual department or school has designated for such purposes.

Mere experience, such as travel or work or a job, does not constitute an adequate course of study. The student should show that his or her experience will involve intellectual inquiry that is substantial enough to justify the hours of academic credit desired. The proposal should specify how the instructor will both guide and evaluate the student's intellectual growth.

Procedure: The student completes a proposal on a form provided by the Interim Coordinator and available in the Registrar's Office. The proposal must then be approved by a supervising instructor and by the chairman or director of the instructor's department or school. The student is responsible for submitting the proposal, with the instructor's and chairman's signatures, to the Interim Coordinator by November 1. The Interim Committee will act on the proposal as soon as possible.

STUDENT-INITIATED COURSES

The Interim Committee hopes that students will wish to initiate Interim courses.

Any number of students who are particularly interested in a certain subject area may put together a course proposal, seeking out a faculty member to serve as sponsor (or instructor) for the course. The same forms, deadlines, and procedures that faculty members follow for course proposals will be in effect.

Deadline date for submission of proposals for the following January is March 15.

For forms and further information, please see the Interim Coordinator, Registrar's Office.

CREDIT

Each course offers 4 semester hours credit unless otherwise stated.

LISTING OF COURSES

Please note that the courses are grouped according to the following headings: Off-campus Studies, Interdepartmental Studies, and Departmental Studies.

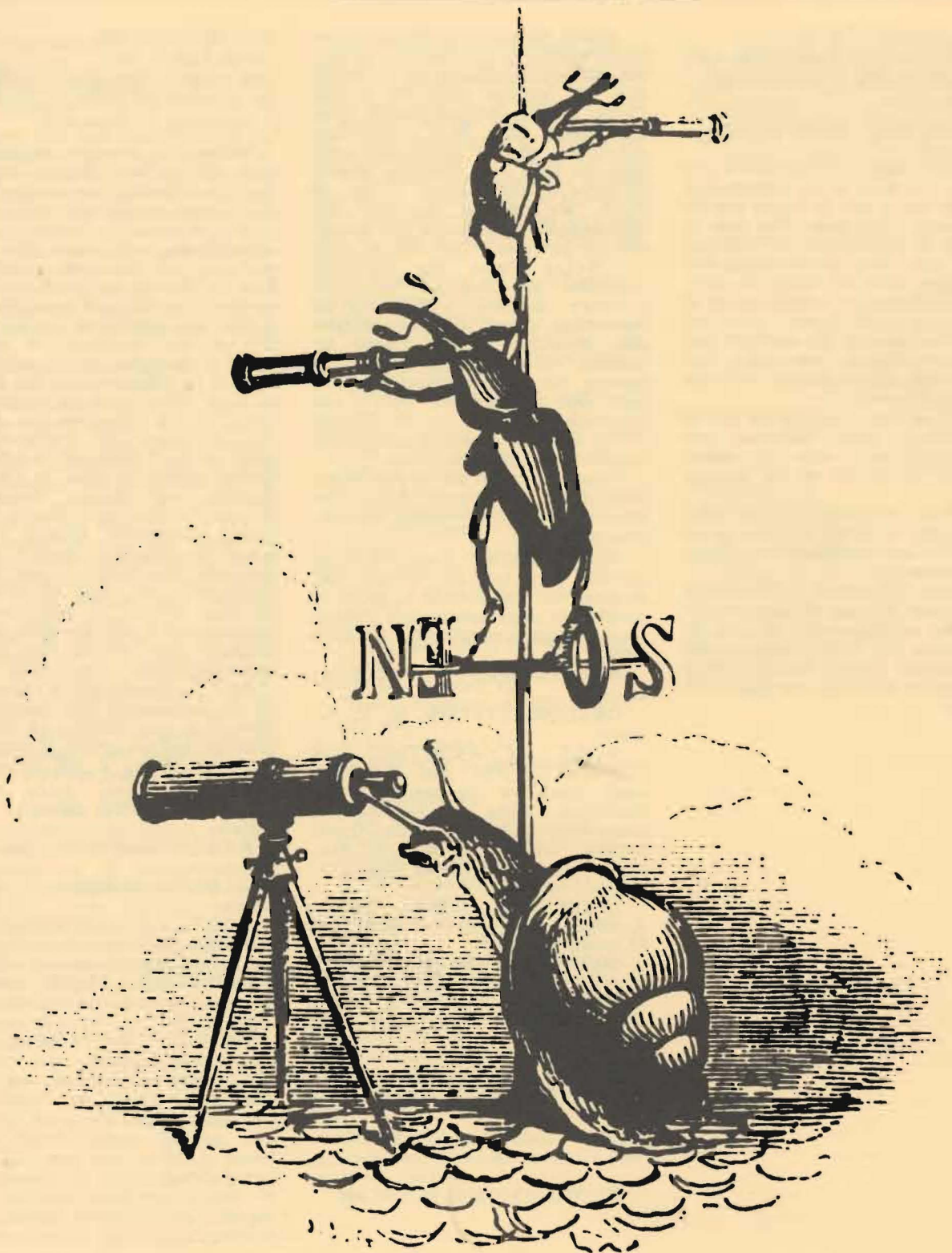
TIMES FOR CLASS MEETINGS MAY VARY FROM LISTING. STUDENTS SHOULD BE FREE FULL-TIME TO MEET AS THE INSTRUCTOR AND THE COURSE REQUIRE.

IN MOST CASES CLASSES WILL MEET DAILY.

BUILDING SYMBOLS

A Administration
E Eastvold Chapel
G Memorial Gymnasium
H Harstad Hall
I Ivy Hall
IN Ingram Hall
L Library
O Olson Auditorium
R Ramstad Hall
X Xavier Hall

OFF-CAMPUS
STUDIES



OFF-CAMPUS STUDIES

0424 ART 309
**THREE STARRED CAPITALS: ART
IN ROME, PARIS AND LONDON**
L. Kittleson

Starting date: January 5, 1976 –
23-day trip.

A week each in Rome, Paris and London will serve as an introduction to much that is best in the art and life of western civilization. The tour is designed to give a close and intimate view of and feeling for the things that make these three art centers so great. It intends to present a broad survey of European art from classical civilization, through the medieval and renaissance periods, continuing into our modern age beginning with the seventeenth century.

In Rome the concentration will be on classical, early Christian and renaissance sites with an added emphasis on the art of the baroque century.

In Paris attention will be most closely paid to gothic art, the age of Louis XIV, and the eighteenth century enlightenment.

London will afford us a view of many things that are of great interest from the mid-eighteenth century to the present. The British Museum and The National Gallery will serve as a summary for what has been learned on this trip.

Among the sites that will have been visited will be the forums of Rome and the museums of classical art, St. Peters and the Vatican with the Sistine Chapel and the Raphael stanze, villas and palazzi with their magnificent collections, and of course the great churches both early Christian as well as those of the baroque period. In Paris we intend to use the encyclopedic collection of the Louvre for our purposes. Visits will be made to Notre Dame, Ste. Chapelle, Versailles, and Chartres. Eighteenth century houses with original furnishings, as well as notable galleries and museums seldom visited by tourists, will be included. In London, besides the aforementioned places, we'll visit the Tate, the Wallace and Courtauld collections, the Victoria and Albert Museum, as well as many other architectural and historic sites.

Special attention will be paid to the individual student's desire for alternative activities – plays, concerts, restaurants, etc.

BIBLIOGRAPHY: There will be no specific text for the course, but readings will concentrate as much as possible on contemporary and primary sources with commentaries by later critics.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$1,190 plus incidental costs based on the needs of the individual. Ceiling cost includes: air transportation, ground transportation between cities, 2 meals per day, second class hotels (rooms with bath, triple occupancy).

INSURANCE NEEDS: Student Accident and Sickness Insurance Plan or similar coverage

MAXIMUM ENROLLMENT: 15

2504 HISTORY 306
**FROM PARIS TO
THE RHINE: THE EVOLUTION
OF EUROPEAN CIVILIZATION**
P. Nordquist, C. Browning

Within the compact geographical area of northern France and the German Rhineland are located great monuments, magnificent works of art, and important historic sites exemplifying every major stage in the evolution of European civilization from the Roman conquest to the 20th century. The class will spend ten days in Paris and then travel for two weeks through the heartland of Europe, studying the history of this civilization through its visible remains: the Roman ruins of Trier; medieval castles and towns in the Rhineland and Alsace; the Romanesque sculpture and architecture of Burgundy and Speyer; Gothic cathedrals such as Chartres, Bourges, and Reims; Renaissance chateaux of the Loire; Worms, where Luther confronted Charles V; the palace at Versailles, symbol of the monarchy overthrown in the French Revolution; the tragic battlefield at Verdun, where a generation of Germans and Frenchmen died; and the museums and historic sites of the incomparable city of Paris itself.

Each participant will be responsible for the preparation of a special topic relevant to the itinerary of the trip. Selection and assignment of topics will be made during a fall orientation program.

BIBLIOGRAPHY: *Michelin Guide to Paris*

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$995 – excluding lunches and individual purchases and activities.

INSURANCE NEEDS: Student Sickness and Accident Plan or similar coverage

MAXIMUM ENROLLMENT: 40

2508 HISTORY 312
**THE DESERT
 IN AMERICAN HISTORY**
 A.D. Martinson

Desert life and desert history are mysterious to most Americans. Yet, because two-thirds of the American West falls within desert definitions (one-third of the United States), our very existence is affected by that fact in a thousand different ways. Students in this course will come to know the desert on its own terms, then pursue a case study of a single dimension of desert history in a library and area of choice.

Lecture-discussion classes will be held every day at 9:30 a.m. (except for the weekend), Tuesday, January 4 through Friday, January 14 at Furnace Creek Ranch in Death Valley, California. Afternoons must be used for "follow-up" research in the field of the topic presented in class the morning of the same day. A list of daily topics is available from the instructor. Following the two weeks of "outdoor classroom" activity in Death Valley, each student will research, write, and illustrate a specific dimension of one of the topics either on campus or at another research center or location in the West. The completed assignment must be in the instructor's office at PLU by the final day of the Interim. This portion of the course should be understood as basically a 10-day research and writing project which pursues the "case study" approach to one of the larger topics. Students will receive, at some point during the fall semester, a self-guiding set of instructions. In addition, the instructor will meet individually with the students to explain research techniques and the writing format. It may be possible for students to do some preliminary research prior to the Interim. Arrangements will be made for those interested to review the work of other students.

Please note that this course is *not* a study-tour. Enrollees are expected to make their own arrangements with regard to transportation to, from, and within Death Valley, lodging, and food. You may stay in deluxe motel units, cabins, or camp providing you meet national park regulations. A cabin will cost about \$9.00-\$12.00 per night per person. There is an excellent

coffee shop and cafeteria, plus a general store to meet your food tastes. You cannot prepare food, with minor exceptions, in motel or cabin rooms. It is strongly advised that students see the instructor as early as possible for recommendations and "tips" on how to save money and secure the services you desire. Death Valley in January is clear and warm during the day, and cool at night. A total of 12 nights will be required.

**Lecture-Discussion Topics Schedule/
 Furnace Creek Ranch**

- Tuesday, January 4:
 "Introduction: The American Deserts in Historical Perspective"
 Wednesday, January 5:
 "Plant and Animal Life in the Desert"
 Thursday, January 6:
 "The Desert and the American Indian"
 Friday, January 7:
 "Explorers and Wanderers in American Deserts"
 (Weekend)
 Monday, January 10:
 "Boom Towns in American Deserts"
 Tuesday, January 11:
 "The Desert Hotel and the Leisure Class"
 Wednesday, January 12:
 "Desert Preservation: Which Ones and Why?"
 Thursday, January 13:
 "Rediscovery of the American Deserts"
 Friday, January 14:
 "The Desert and You - Case Study Assignment" Student Oral Interpretations

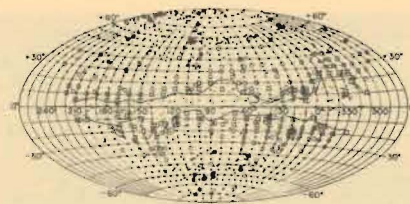
REQUIREMENT(S) FILLED:
 Interim

GRADING SYSTEM: A,B,C,D,E
COST IN ADDITION TO

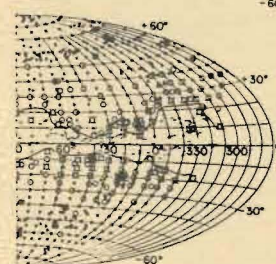
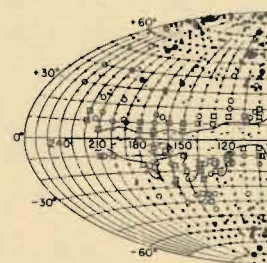
TUITION: Will vary greatly depending on travel distances to and from Death Valley, the type of lodging selected, and the choice of meeting food costs. The instructor can help each student to tailor the needs to his/her budget. Probably the costs per person will range between \$100+ to \$300+ in the valley.

INSURANCE NEEDS: Student Accident and Sickness Insurance Plan or similar coverage.

MAXIMUM ENROLLMENT: 20



The apparent distribution of galaxies.



2704 MUSIC 303

**A CULTURAL EXPERIENCE
IN THE ARTS IN NEW YORK CITY**
C. Knapp

The first two weeks of this course will prepare students on campus for a series of concerts, operas, plays and art museum exhibits that they will attend in New York City for ten days during Interim.

Musical works will be studied in depth through recordings and live performances during the first two weeks of Interim. The Broadway play(s) and exhibits at the Metropolitan Art Museum, Guggenheim Museum, Museum of Modern Art, and other museums will also be studied. Students will compile a notebook on readings and specific areas of study.

All of this will prepare the students for a meaningful experience in the fine arts in New York City. The students will stay at the Empire Hotel, which is located across from Lincoln Center. Lincoln Center houses the Metropolitan Opera Company, New York State Opera Company, Philharmonic Hall, Alice Tully Hall, Lincoln Center Playhouse, the Juilliard School, Lincoln Center Library, plus other smaller recital halls.

The schedule will be filled with attendances at solo recitals, concerts, and operas at the Alice Tully Hall, Philharmonic Hall, Metropolitan Opera, etc. There will be visits to art galleries, Broadway play(s) and a tour of New York City. The schedule will include free time for individual sight-seeing and browsing. The student will add experiences at museums and performances to his/her notebook.

Visits to the Juilliard School and Columbia University will be on the agenda. Student performers who desire to take a lesson from a master teacher at the Juilliard School or elsewhere in New York City should contact Dr. Knapp well in advance so that the arrangements can be made.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$550

INSURANCE NEEDS: Student Accident and Sickness Insurance Plan or similar coverage.

MAXIMUM ENROLLMENT: 15

MEETING TIME AND PLACE:
9:00 a.m. - 11:00 a.m., E-228

3808 PSYCHOLOGY 301

**CROSS-CULTURAL
PSYCHOLOGY: A LIVING LAB
WITH HAWAII'S ETHNIC GROUPS**
J. Moritsugu

Hawaii is made up of many cultural enclaves, allowing us to study a variety of ethnic groups in one location. This course will examine several of these groups through 1) a perusal of the research literature, and 2) participatory observation in the island setting.

Students will live in and study the multi-ethnic culture of Hawaii. The island groups afford the student of different cultures the chance to observe and interact with people of Japanese, Filipino, Samoan, Hawaiian, Korean, and Caucasian extraction.

The historical background for selected ethnic groups' emigration to the islands will be reviewed. The sociological and political impact of these groups will be examined. And finally; the psychological ramifications of the island's multi-ethnic configuration will be discussed and observed.

Readings will cover the content areas. They will serve as the framework for the cultural comparisons. However, the major portion of the course will require the student to take the role of participant observer, noting examples in the culture(s) that confirm or disconfirm the expectations generated by scholarly studies.

A morning activity and/or lecture will be given 2-3 times a week. The topics include 1) the Polynesian People, 2) the Caucasian Emigration, 3) the Asian Emigration. An annotated bibliography consisting of a one-page summary paper on each of the assigned books, will be required by the end of the first week in the Islands. Students will have the opportunity to do this reading ahead of time if they wish. A 10-page essay will be required at the end of the Interim. This essay may be either a subjective report of the island experience or a study generated by the examining of the literature.

BIBLIOGRAPHY: G. Daws, *Shoals of Time: A History of the Hawaiian Islands*; L. Fuchs, *Hawaii Pono: A Social History*; A. Lind, *Hawaii's People*; J. Michener, *Hawaii*.

REQUIREMENT(S) FILLED:
Interim

PREREQUISITE: Psychology 101 preferred. Age 18 or over.

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Approximately \$507 for transportation and housing for three weeks. Board is extra -- \$150 average with kitchen facilities.

INSURANCE NEEDS: Student Sickness and Accident Plan

MAXIMUM ENROLLMENT: 32

MEETING TIME AND PLACE:
9:00 a.m. - 10:00 a.m., X-201, the last week of Interim.

INTERNATIONAL STUDIES

The Andromeda galaxy.



INTERDEPARTMENTAL STUDIES

5050 ART/BIOLOGY/ENGLISH 319 A GALAXY OF EYES: CREATIVITY

J.W. Knudsen

The fine arts and humanities are becoming more important to each person as human time hastens on. Much of our sense of direction and personal inner worth will exist because creative people have provided lenses of vision for us to see both life and ourselves more clearly. But is creativity a gift or is it a process? Does creativity have a climate, a season, or a mood where it will bloom?

The purpose of this adventure will be to get away from the typical graphics lab or composition class and explore the galaxy of eyes through which we are privileged to view life's fuller and grander dimensions.

We will seek to identify ways of igniting and sustaining the aura in which we may be creative. Each of us will seek out that which personally allows the creative process to take place. Many of us have honed our skills with line, pigment, word or tone to a point of craftsmanship. The missing ingredient is to discover and harness the creative process, each in our own way. We will hunt new symbolism and meaning. The entire fabric of the natural world is before us in an endless array of color, form, sound, design, emotion, texture and meaning, and we will use this.

Students selected must be serious about the place of creativity in their future vocation or avocation. They must be reasonably skilled in one of the following areas: 1) two-dimensional graphic media including the pencil, or 2) creative writing with keen interests in description and expression of emotion in prose and/or poetry, or 3) in musical composition with a self sufficiency in musical notation. In addition, each student must be willing to experiment in new areas of creativity and expression.

Interested students should contact Dr. Knudsen as soon as possible. There will be working sessions, laboratories, discussions, field trips, creative endeavor, personal projects, and group evaluation. Consent of the instructor is required.

REQUIREMENT(S) FILLED: Interim

PREREQUISITE: The course is designed for majors or advanced students in art, music and/or literature.

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Materials only

MAXIMUM ENROLLMENT: 16

MEETING TIME AND PLACE: 1:00 p.m. - 4:00 p.m.,
Daily, I-106

5054 ART/HISTORY/NURSING 301 THE BODY BEAUTIFUL

C. Lawrence

Purpose:

- A. To provide an opportunity for the student to experience, see, and depict the nude human figure,
- B. to provide and promote interest in the historical, artistic, and scientific study of the human figure in western culture,
- C. to encourage an acceptance of the differences and appreciation of the beauty of the human figure (both the figures of others and oneself).

Subject Matter: A consideration of the Human Figure, its superficial anatomy, man's view and study of it throughout the history of the Western World. The course will emphasize history of anatomy, history of artistic conception of the nude form, and related philosophical concepts. Program of topics will include Primitive Man, Pre-Hellenic, Hellenic, Medieval, Renaissance, 17th, 18th, 19th Centuries, Anatomy and Medical Illustration Today and Tomorrow. In exploring current thinking, students may consider such topics as self-image, body language, touch, and the dance.

Off-Campus Activity: Trip to the University of Washington Medical School's Rare Book Room to see ancient anatomies and hear a talk by a noted medical illustrator.

On-Campus Activities: Implementation illustrated slide lectures, seminars, and figure-drawing studios. Guests include an anthropologist and films on Primitive Man, anatomist (President Rieke), dance presentation, and National Geographic Film - "Man: The Incredible Machine." These varied activities provide opportunities for the student to see, experience, depict, and talk about the human figure.

Assignments: Students are assigned weekly readings in art and anatomy history. Other assignments include two brief essays (at beginning and end of course), a paper based on library research on a topic related to the course, and evidence of improvement in drawing.

Evaluation: A passing grade is made by the student who attends class and studio, reads, and hands in all assignments on time. Guidelines for essays and a proposal for the research paper are designed to assure standards of scholarship.

BIBLIOGRAPHY: C.J. Lawrence, *Greek and Roman Schools of Medicine and Philosophy*; J. McMurrich, *Leonardo da Vinci the Anatomist*; R.D. Lockhart, *Living Anatomy*; K. Nicolaides, *The Natural Way to Draw*; C.D. O'Malley, *Michael Servetus: A Translation of His Geographical, Medical, and Astrological Writings*; C. Singer, *A Short History of Human Anatomy from the Greeks to Harvey*; (a complete listing is available from the instructor).

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$10 - studio fee, \$3.50-\$10 - materials (depending on student desires), under \$5 - text, plus transportation to Seattle in a student car pool

MAXIMUM ENROLLMENT: 24

MEETING TIME AND PLACE: Lecture and Seminar - 10:00 a.m. - 12 noon, M,W,F, IN-122; Seminar - 1:00 p.m. - 3:00 p.m., M, IN-116; Studio - 1:00 p.m. - 3:00 p.m., W,F, IN-126.

5062 ART/RELIGION 307
RELIGION THROUGH STORY AND ART
R. Petry

The course will be a study of "The Artistic Critique of Historic Christian Tradition" with Dr. Ray Petry, Professor Emeritus of Church History, Duke University. Opportunity will be offered to study both the criticism and support of the Christian tradition by contemporary artists. A limited number of students is invited to investigate four areas. First, Christian art, history, and tradition will be studied in relation to clerical vocations and also in relation to the expanding range of such potential lay ministries as painting, sculpture, music, architecture, and crafts. Secondly, selected themes of Christian doctrine as treated by contemporary artists will be examined. The third area of investigation consists of a scrutiny by composers and architects in their conceptualization of the church as a "pilgrim community of worship." Finally, the treatment of life and death as inseparable in the works of poets and painters, the protest against war and social injustice in the art of sculptors and muralists, and the search for the reunification of clergy and laity within flexible traditions and innovative church buildings as depicted by architects and liturgists will complete the course. Lectures, discussion, and audio-visuals will be employed within a seminar setting.

Dr. Petry is a world-famous church historian with special interests in the relation of religion to the arts. He is officially listed among the world's foremost medievalists. This course is not aimed only at those with previous study of religion and/or art; rather students of widely assorted backgrounds are invited. Since both religion and art speak universally to all, diverse backgrounds will enhance the interaction between the two subjects and their human relevance.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE: 10:00 a.m. - 12:00 noon,

A-210

5070 BIOLOGY/EARTH
SCIENCE/PHYSICAL EDUCATION 307
EXPLORING THE NORTHWEST'S WINTER
S. Officer, B. Ostenson

This course is designed to allow students to examine and experience safely the wide variety of the Northwest's winter. Attention will be given to types of winter travel, including hiking, snowshoeing, and skiing, and to survival skills of winter camping, snow caving, and utilization of a map and compass. The student will be involved in equipment selection and care, meal planning and preparation and with experiencing the changing natural environment. Principles of ecology, especially as illustrated by the survival strategies of plants and animals in winter, will be studied in the field. Man's interaction with his environment will be observed from salt water to the rain shadow of the Cascades.

A tentative schedule of the course is as follows: The first week will be in the general PLU area, mostly on campus. The second week will be spent camping on the Olympic Peninsula. The remainder of the course will be at Santiam Lodge in the high Oregon Cascades, and the Eastern Oregon high desert.

BIBLIOGRAPHY: Buchsbaum, *Basic Ecology*; B. Knellstrom, *Be Expert with Map and Compass*.

REQUIREMENT(S) FILLED: Interim. Elective for Recreation Concentration in Physical Education. Integrative Experience in Environmental Studies Program.

PREREQUISITE: Students must be in good physical condition. In addition, each student must provide warm woolen clothing, warm jacket, adequate hiking boots, rain gear, a warm sleeping bag and insulate pad.

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$180

INSURANCE NEEDS: Pacific Lutheran University voluntary student insurance or proof of equal coverage.

MAXIMUM ENROLLMENT: 25

MEETING TIME AND PLACE: 9:00 a.m. - 12 noon and 1:00 p.m. - 5:00 p.m. first week, G-901.

**5074 BIOLOGY/NURSING/PHILOSOPHY 303
PATIENTS, HEREDITY, AND SOCIETY –
WHOSE RIGHTS, WHOSE RESPONSIBILITIES?
A. Gee, P. Menzel, C. Schultz**

Both developments in applied genetics and the increasingly prevalent assumption that individuals have equal rights to health care have become centers of moral controversy. This course will constitute an introduction to the field of bioethics through the eyes of these two problem areas. In both areas the basic conflict between society's claims to progress and efficiency and individuals' claims to equal freedom and protection frequently surface.

Application of our new genetic knowledge creates a host of moral problems. When are prospective parents responsible for obtaining genetic counseling about their chances of producing defective offspring? When do parents have a right to let genetically deformed infants die? Does recent medical progress threaten to pollute the gene pool of society? Does concern for the cost of society of caring for genetically defective children threaten our commitment to the equal rights of handicapped individuals? What social and individual risks are we permitted to run in pursuing research on new genetic strains? Etc.

Equal individual rights to health care are related to similar problems. If individuals have certain rights in health care, what individual responsibilities are thereby increased? If patients have a right to health care for lung cancer, should society impose extra taxes on cigarettes? What responsibilities do patients have to care for themselves, and does abdicating these ever cancel their equal rights to further health care? What changing conceptions of patient rights and responsibilities lie at the heart of present and future medical malpractice problems? Etc.

The class will begin with a 1½ week introduction to these two problem areas, after which students will choose to specialize in one area for two weeks. The class will regroup for the last half-week to share key problems and solutions. Emphasis will be placed on group discussion and students' formulation of responses to specific hypothetical situations. There may be short written assignments, but these will be much less important. Readings will come from a wide variety of sources, and several visiting speakers and field trips will be arranged.

BIBLIOGRAPHY: V. Fuchs, *Who Shall Live?*; J. Fletcher, *The Ethics of Genetic Control*; (Hastings Center, current), *Readings in Society, Ethics, and the Life Sciences*; miscellaneous journal and magazine articles.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 50

MEETING TIME AND PLACE: 10:00 a.m. - 12 noon,

A-200

**5082 CHEMISTRY/RELIGION 312
SO YOU THINK YOU ARE HUMAN
B.L. Nessel, J. Petersen**

The purpose of this course is to explore several aspects of being human in a community-oriented environment. The course will include a survey of medical ethics, including discussions of life, the "right" to die, human experimentation; a definition of a community, including discussions about respect, privacy, social vs. private morality and the social treatment of those considered to be "outside normal society;" biofeedback, including discussions of autonomic control, physiological inputs into perception, learning and memory. The biochemistry and psychology of drug use will be covered. Right and wrong behavior vs. appropriate behavior will be explored: i.e., can behavior, in and of itself, be wrong or is it inappropriate at certain times. A broad subject loosely described as "self-awareness" will be woven throughout the time; that is, recognition of and possibly coping with personal behavior and behavior of others. We will also observe and participate in physical survival exercises and demonstrations.

We will establish a relatively "self-contained" society for 9 days aboard the *Gallent Lady*, visiting Victoria, the San Juans, and other places. A possible exchange with students from the University of British Columbia is planned.

BIBLIOGRAPHY: Jourard, *The Transparent Self*; Truitt/Solomon, *Science, Technology and Freedom*; Wylie, *The Magic Animal*; Lejevre, *Understandings of Man*; Smith, *When I Say No, I Feel Guilty*; Ramsey, *The Patient As A Person*; Man, *The Manipulator*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: P, No credit

COST IN ADDITION TO TUITION: Local field trips and the trip to UBC: Costs are only estimates – \$30. The 9 days aboard will cost approximately \$120. Final costs will be determined in the fall, but should be very close to these estimates.

INSURANCE NEEDS: Off-campus insurance requirements are in effect.

MAXIMUM ENROLLMENT: 22

MEETING TIME AND PLACE: 9:00 a.m. - 4:00 p.m., Daily, L-000

5090 EDUCATION 311
A GUIDE TO BEING A STAR... OR... THEORY AND PRACTICE OF LEADERSHIP AND GROUP BEHAVIOR
P.E. Beal assisted by J. Stringer, J. Wiles, S. Adachi, and Staff

Through readings and lectures the course will attempt to develop an appreciation of the literature on organizational psychology and to develop an understanding of how groups function and what role leadership plays in a group. Through various structured group experiences the course will enable students to assess their own leadership potential and to strengthen their leadership abilities. It will also assist them in improving their skills in interpersonal communications.

The course will dispel the implications of the lead course title and help students to assess and analyze attitudes and skills which contribute to effective leadership.

BIBLIOGRAPHY: D. Kolb, I. Rubin and J. McIntyre, *Organizational Psychology: A Book of Readings*; *Organizational Psychology: An Experiential Approach* (workbook). Others as assigned.

REQUIREMENT(S) FILLED: Interim. Does not qualify as an Ed. elective for certification.

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: The course will include a field experience component with four trips and possibly \$10-\$15 in expenses. Additional expenses could be incurred through the use of video-tape.

MAXIMUM ENROLLMENT: 40

MEETING TIME AND PLACE: 9:00 a.m. - 12 noon, Daily, A-117. Afternoons as scheduled.

5094 COMMUNICATION ARTS/PHYSICAL EDUCATION
304
CHOREOGRAPHY AND DANCE PRODUCTION
K. Beckman

This is an intensive course in the choreography and the production of dances, with daily technique classes in the morning, and afternoon classes in composition. Out-of-class time will be required for rehearsal. Assignments will include individual and group choreography, costume design, staging and lighting.

The purpose of the course is to allow for concentrated study in the area of dance preparation. The Interim is ideally suited to such concentrated work. A great deal of time and effort is required for this course, and it is a wonderful opportunity for individual growth in this performing art.

At the end of the course, there will be an evening presentation of student choreography to the community.

BIBLIOGRAPHY: M. Turner, *The New Dance*; E. Sherbon, *On the Count of One*; D. Humphrey, *The Art of Making Dances*; L. Ellfeldt, *Dance Production Handbook, or Later is Too Late*.

REQUIREMENT(S) FILLED: Interim

PREREQUISITE: Because of the intensive nature of the course, the Beginning Modern Dance class or permission from the instructor is required.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE: 10:00 a.m. - 12 noon and 1:30 p.m. - 3:00 p.m., Daily, Memorial Gymnasium.

5152 EARTH SCIENCE/EDUCATION 309
USE OF DEMONSTRATIONS
IN THE PHYSICAL SCIENCES
L. Huestis, L. Stein

One of the major problems in teaching science, particularly physical science, is the tendency for the basic concepts to be abstract. One of the best ways to overcome this abstractness is to demonstrate the concepts and it is the purpose of this course to show how this can be accomplished.

Course structure: First three weeks - Instructors will present discussion and demonstrations on 1) Mechanics, 2) Buoyancy and Density, 3) The Atmosphere, 4) Magnetism, 5) Light, 6) Fluorescence, 7) Radioactivity, 8) Heat and Temperature, 9) Motion of Molecules, 10) Chemical Reactions, 11) Chromatography, 12) Minerals, 13) Fossils. Students will give single-concept demonstrations on Friday of the second and third week. The final week will involve team presentation of topics and demonstrations. The general format for each day will involve a one-hour topic presentation followed after lunch by a variety of demonstrations illustrating that topic.

Primarily for students who will be teaching science at the primary or secondary level, but all interested students are welcome.

BIBLIOGRAPHY: UNESCO *Source Book for Science Teaching*; Moreholt, *Source Book for Physical Science*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE: Lecture - 11:00 a.m. - 12 noon, R-209. Laboratory - 1:00 p.m. - 3:00 p.m., R-320.

DEPARTMENTAL STUDIES

5054 ART 301
THE BODY BEAUTIFUL
(See interdepartmental listing)

0408 ART 305
CRAFTS WORKSHOP
G. Roskos

The actual creation of hand-crafted functional and non-functional art objects and their relationship in embracing the elements of two- and three-dimensional design. Art objects created will vary from moderately small to life-size, and can be utilized functionally and/or for the adornment of the home. Suitable projects in a variety of materials and techniques will be explored: ceramics, copper enameling, batik, leaded stained glass, plastic resin, mold making, and paper mache. Both majors and non-art majors are encouraged to enroll in this course.

REQUIREMENT(S) FILLED:
Interim
GRADING SYSTEM: H, P, No credit
COST IN ADDITION TO TUITION: \$25 Studio fee
MAXIMUM ENROLLMENT: 15
MEETING TIME AND PLACE:
9:00 a.m. - 12 noon, Daily, IN-134B. Open studio in the afternoon.

5062 ART 307
RELIGION
THROUGH STORY AND ART
(See interdepartmental listing)

0424 ART 309
THREE STARRED CAPITALS: ART
IN ROME, PARIS AND LONDON
(See off-campus listing)

0428 ART 313
IMAGERY AND SYMBOLISM
E. Schwidder

The study of symbols (designators) is the search for meaning — a way to identify, emphasize, and understand our environment. Identification of symbols — graphic, allegorical, private, sensorial, and/or figurative — provides avenues of approach to works of an ideological nature. Such communication goes beyond the visual, beyond the object, and into the realm of mysticism, religion or superstition. From the origin of civilization, art has served such purposes — from the Venus of Willendorf, the Great Sphinx to the contemporary peace symbol (the latter relates to an ancient hieroglyphic). Also included will be an introduction to "kitsch" or the false image.

The course will follow a lecture-discussion format, with demonstrations, particularly in the study of symbols of ritual and movement. Emphasis will be on group participation. Weekly reports on the topics presented and one appropriate project or research paper will be required.

BIBLIOGRAPHY: H. Bailey, *Lost Language of Symbolism*; G.W. Ferguson, *Signs and Symbols in Christian Art*; A. Grabar, *Christian Iconography*; C. Jung, *Man and His Symbols*; G. Kepes, *Sign Image and Symbol*; G. Santayana, *Sense of Beauty*; J.W. Dixon, *Nature and Grace in Art*.

REQUIREMENT(S) FILLED:
Major, or Interim
GRADING SYSTEM: H, P, No credit
COST IN ADDITION TO TUITION: Transportation costs for field trips
MAXIMUM ENROLLMENT: 35
MEETING TIME AND PLACE:
Lecture — 10:00 a.m. - 12 noon, IN-116. Afternoon sessions and day-long field trips as scheduled.

0436 ART 318
LIFE SCULPTURE
T. Torrens

A study of the human form as a source of sculpture. Modeling in clay of both portrait busts and full figures. Mold making and casting in either metal or plastic.

Working clay into figurative shapes is a basic human activity and such forms have been present in the art and artifacts produced by societies from "pre-historic" to modern times. The casting process has been used almost as long, having recently been revived with the introduction of such contemporary materials as polyester resin and aluminum. No previous experience or skills are required, and non-majors are encouraged to register.

REQUIREMENT(S) FILLED:
Interim
GRADING SYSTEM: H, P, No credit
COST IN ADDITION TO TUITION: \$25 studio fee for models and basic materials.

MAXIMUM ENROLLMENT: 12
MEETING TIME AND PLACE:
9:00 a.m. - 12 noon, Daily sessions with models, IN-128. Model making and casting sessions in afternoons as scheduled.

5050 ART 319
A GALAXY OF EYES: CREATIVITY
(See interdepartmental listing)

5074 BIOLOGY 303
PATIENTS, HEREDITY,
AND SOCIETY — WHOSE RIGHTS,
WHOSE RESPONSIBILITIES?
(See interdepartmental listing)

5070 BIOLOGY 307
EXPLORING THE
NORTHWEST'S WINTER
(See interdepartmental listing)

**0516 BIOLOGY 306
BIOLOGICAL
SELF-RECOGNITION:
HOW ANIMALS RESPOND
IMMUNOLOGICALLY TO
FOREIGN CELLS AND TISSUES**

A.G. Alexander

Biological self-recognition refers to the ability of higher animals to respond immunologically to foreign cells, tissues, or other material which may be introduced into or onto the body of the individual. This biological integrity is apparent in defense mechanisms against infectious disease, rejection of transplants, surveillance against cancer cells, and auto immune disease as a malfunction of the immune system. There is a fundamental basis for such self-recognition in the "social facade" of cells, i.e., the precise interactions between cells that is based on the design and packaging of their surface components. This course will emphasize evidence for and the theoretical aspects of how the system works and the practical implication of such a system as indicated in the subtopics listed above.

Implementation will be through reading, group meetings, tutorial sessions, with a minimum of lecturing. There will also be a summary paper required. If feasible at the time of the course, visits may be made to area clinical serology laboratories and to appropriate seminars on immunobiology in Seattle.

BIBLIOGRAPHY: F.M. Burnet, *The Integrity of the Body*; B.D. Davis, *Microbiology*; L. Weiss, *Cells and Tissues of the Immune System*; selected readings, *Scientific American*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Minimal transportation at most, to cover possible trips to local clinical serology laboratories, or to appropriate seminars at the U.W., should any be scheduled during the time (less than \$5).

MEETING TIME AND PLACE: 1:00 p.m. - 3:00 p.m., R-209

**0528 BIOLOGY 309
INTRODUCTORY
MICROTECHNIQUE**

J.T. Carlson

Preparation of tissues for microscopic study is a basic requirement for many types of biological experimentation. The acquisition of basic skills in tissue preparation can broaden the individual's perspectives as a biologist, as well as instill an appreciation of how information about biological structure is obtained.

This course will provide an introduction to the handling of biological tissues. The student will learn the principles of fixation, embedding, sectioning, and staining. Permanent microscope slides will be prepared of tissue sections as well as unsectioned material, including chromosomes and whole small organisms. Tissue handling skills will then be used in conjunction with such techniques as cytochemistry and autoradiography to learn something about the molecular composition of selected tissues.

The course will include short lectures covering the principles, as well as extensive practical training. Students will be expected to spend considerable time perfecting their skills. Each student will prepare a group of microscope slides demonstrating proficiency in the basic techniques. Additionally, each student will choose a special project through which one or more of the procedures can be applied at a more advanced level. Evaluation will be on the basis of demonstrated proficiency in the techniques, as well as on the basis of a completed special project.

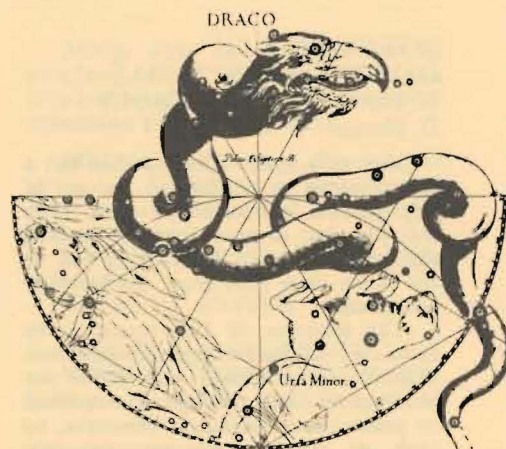
REQUIREMENT(S) FILLED: Interim

PREREQUISITE: No prerequisites; it is expected that students will be interested in biology, but no formal courses are required prior to this course.

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$20 for materials

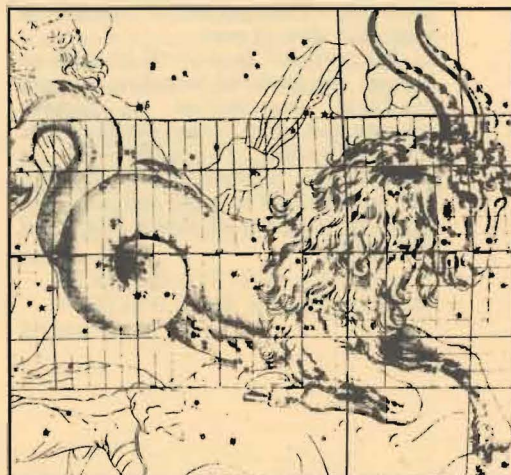
MEETING TIME AND PLACE: 8:00 a.m. - 12 noon, M,W, I-105



The constellation Draco wrapped around the north ecliptic pole, as depicted in 1690.



The sea monster Cetus copied from a print of 1603.



Capricorn, the Goat, in the fixed stars.

0536 BIOLOGY 311
GALAXY OF MAN: HUMAN
EVOLUTION AND ECOLOGY

D. Hansen

Man as a species has existed but a few minutes in relation to the age of this planet, industrialized man, only seconds, but in that time the human galaxy has shown brilliantly, and at the same time cast great shadows on his future.

The purpose of this course is to trace our origins through glimpses into evolutionary processes, to examine our position on earth through introduction to some basic ecological concepts, to look at changes we are currently affecting on our planet through waste and extravagance, and finally to try and ascertain where we might go from here.

The course is intended for all students, but may be especially valuable to non-majors who wish to gain a perspective of our place in nature, both in time and space. The material will be covered with the assumption that no other science has been taken. This, however, should not discourage those who have had science from enrolling, as the material still should prove relevant.

Aspects of human evolution and ecology will be presented on both a biological and cultural basis, in that there are different points of view as to whether our actions and behavior are closely linked to our biological evolution or whether they are uniquely a property of being human. To address this question, introduction into basic evolutionary and ecological concepts will be presented, along with a specific view of man.

A variety of media will be used to present the material including lecture, reading, examination of various primate and early human skulls, games and movies. In addition to participation in discussions, students will be expected to write and present a paper on a choice of topics related to the course.

One text will be required and several optional books will be available as further reference material.

BIBLIOGRAPHY: A.S. Bougher, *Man and the Environment, An Introduction to Human Ecology and Evolution*; R.A. and P.J. Watson, *Man and Nature: An Anthropological Essay in Human Ecology*; C.P. Swanson, *The Natural History of Man*.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 30

MEETING TIME AND PLACE:
1:00 p.m. - 3:00 p.m., M - F; 3:00 p.m. - 5:00 p.m., T, 1-107

0548 BIOLOGY 315

THE BIOLOGY
OF MATING SYSTEMS
AND SEXUAL SELECTION:
SEX - PROTOZOANS TO MAN
D.J. Martin

The courtship of organisms has always fascinated man, and many questions have been raised about mating behavior. Why are some species monogamous and others polygamous? Why do males fight over females in some species but not in others? Why do some females fight for males? Why are courtship rituals of some species so bizarre or elaborate, especially in humans? What factors influence the choice of a mate? What are the consequences of sexual selection on the physical appearance and social structure of species?

These and many more similar questions will be the prime focus of this course in which mating systems in various organisms from protozoans to man (including plants) will be analyzed. The first one or two weeks will be mostly lectures designed to illustrate the range and implications of mating systems. This introduction will also serve to acquaint the students with the fundamentals of evolution, reproduction and "fitness."

The latter portion of the course will consist of student-led discussions of assigned readings and supplemental readings the instructor and group leader consider to be germane to the topic. It is hoped that these latter sessions will pay particular attention to human sexual behavior and the relationships between that behavior and the sexual behavior in other species. This forum is expected to lead to a formulation and/or consideration of those conditions or behavioral tendencies that have been or continue to be important factors in the evolution and maintenance of social behavior.

Student evaluation will be based upon completion of readings and student interaction and leadership in group discussions. Students are expected to bring to the course and share their biases concerning the form and function of sexuality.

BIBLIOGRAPHY: D. Morris, *The Naked Ape or Primate Ethology*; B. Campbell, *Sexual Selection and the Descent of Man*; other numerous readings will be from scientific papers and books concerned with sexual behavior, selection, aggression, mating systems, etc. These latter readings will be supplied on a no-charge basis.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE:
1:00 p.m. - 4:00 p.m., 1-111

5050 BIOLOGY 319

A GALAXY OF EYES: CREATIVITY
(See interdepartmental listing)

And he brought him forth abroad,
and said, Look now toward heaven,
and tell the stars, if thou be able to
number them.
Genesis 15:5

0628 BUSINESS

ADMINISTRATION 243 FAMILY FINANCIAL PLANNING C.A. Peterson

Consumer saving, spending and planning techniques; intelligent buying and budgeting, estate and tax planning, insurance and investment programs, retirement planning; ethical issues in government and business from the consumer viewpoint; consumer organization and influence in finance, marketing and production.

BIBLIOGRAPHY: S. Porter, *The Money Book*.

GRADING SYSTEM: A,B,C,D,E
MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE:
9:00 a.m. - 12 noon, A-217

0636 BUSINESS

ADMINISTRATION 305 MANAGERS AT WORK Staff

The purpose of this course is 1) to analyze the differing methods of managers at work from first-line supervisors to presidents or top administrators in both business and government, and 2) to determine the impact the profit motives have on managerial methods by comparing organizations of profit-oriented business with nonprofit government.

Management is a universal subject and the meaning depends upon each manager's interpretation; therefore, an academic-textbook approach can lead to stereotypes which are not consistent with reality. The Interim will focus on what managers are doing and attempt to determine the reason why. The periodical bibliography focuses on several management styles or approaches: formalistic, competitive, collegial, situational, management by objectives, etc.

A special emphasis will be placed on top managers and first-line supervisors. Comparative organizations, both in government and business, will be used to the fullest, i.e., hospitals and schools.

At the first class meeting a three-hour briefing by the instructor will initiate students to some of the practicing philosophies of management, as well as the reasoning behind their use. Guest speakers from representative organizations will be scheduled from 9 - 12 a.m. daily. These will be interspersed with field visits to organizations for on-site briefings and tours. Selected students will be assigned to general areas for research and also to question speakers in specific areas.

REQUIREMENT(S) FILLED:
Interim
GRADING SYSTEM: H, P, No credit
MAXIMUM ENROLLMENT: 40
MEETING TIME AND PLACE:
9:00 a.m. - 12 noon, Daily, A-213

0644 BUSINESS

ADMINISTRATION 310 N.A.S.A.: NEW APPROACH TO SOLICITATION ACTIVITIES S. Freeman

The Art of Raising Funds for Non-Profit Organizations:

This course is designed to familiarize the student with the rapidly growing application of business principles to non-profit organizations. The focus of the course is on generating supplementary funds necessary for the organization to function. It will include currently employed practices as well as newer concepts which can lead to the development of more effective practices.

The course will review the main types of non-profit organizations and their relevant characteristics. This review will include definition of goals organizing activities, and techniques used to solicit funds.

Considerable attention will be directed toward the abundant recent literature which has provided these organizations with new guidelines for fund-raising. Included are concepts of donor behavior, target market definition, market research, and promotion.

Along with considerable outside reading, the course will be implemented through classroom discussion and a class project.

BIBLIOGRAPHY: I.R. Warner, *The Art of Fund-Raising*; P. Kotler, *Marketing for Non-Profit Organizations*.

REQUIREMENT(S) FILLED:
Interim
GRADING SYSTEM: H, P, No credit
MAXIMUM ENROLLMENT: 24
MEETING TIME AND PLACE:
6:00 p.m. - 10:00 p.m., T,W,R, A-211

0648 BUSINESS

ADMINISTRATION 392 (2 semester hours) INTERNSHIP Staff

A program of full-time experience closely related to the student's specific career and academic interests. The student is expected to develop the internship opportunity with a firm or organization. Before registration, the student, organization and School will prepare an internship agreement. This agreement identifies the problems to be researched, experience to be gained and related readings to be accomplished. Monthly progress reports and other measures of achievement will be used to determine the grade. Not more than 2 hours of credit will be granted for a full month of internship, and not more than 8 hours of accumulated credit will be granted for the internships taken. The internship cannot be used to meet the minimum requirement for two upper-division business elective courses, and it must be completed prior to the last semester before graduation.

PREREQUISITE: BA 281, 282, 350; Econ. 150; Statistics 331; one additional course in the student's area of concentration. The course is designed for majors or advanced students.

GRADING SYSTEM: A,B,C,D,E
MEETING TIME AND PLACE: By arrangement

**0706 BUSINESS
ADMINISTRATION 553
CONTEMPORARY
ISSUES IN MANAGEMENT**
D.W. Carvey

Investigation of the roles of managers in the modern society. The exploration includes, but is not limited to the topics of corporate responsibility, ethical issues in management, and the impact of technological change on organizations and society. The workshop approach to these topics combines the use of cases, readings, discussions, and simulations.

REQUIREMENT(S) FILLED:
Elective course for the MBA and/or MPA students.

PREREQUISITE: BA 550 and Economics 504. Graduate (MBA, MPA) students only.

GRADING SYSTEM: A,B,C,D,E
MAXIMUM ENROLLMENT: 24
MEETING TIME AND PLACE:
6:00 p.m. - 10:00 p.m., M,T,R, A-221

**0804 CHEMISTRY 108
MANKIND AND MOLECULES**
D.D. Swank

We live in a chemical world... a world of drugs, biocides, fertilizers, food additives, detergents, plastics, synthetic fabrics and cosmetics, a world of beneficial advancement through chemistry and of problems related to chemistry. In addition we live in a rapidly changing world. Mankind faces some of the greatest challenges in history. Problems for which there are no easy solutions force us to face such dilemmas as who is to live and who is to die, which of the many products today are safe and which are considered dangerous for use. Unless one knows what the choices are, how can a choice be made? Not too surprisingly, many of the choices involve a knowledge of chemistry. Thus, the consumer, the business man and the politician must have a better understanding of science and technology in order to make intelligent choices.

This course is designed specifically to acquaint non-science oriented students with the role chemistry plays in the everyday world and to give them the knowledge to make intelligent choices. The course requires no more than simple arithmetic and does not have a laboratory. It should be stressed that the course is not a "watered down" general chemistry course and does not have the same goals and overall objectives as a majors course. Nor is the course simply learning "about" science, or about what scientists do. The course achieves its goals by raising questions and directly involving students in such topics as: basic foods and chemicals in the diet, foods and fertilizers, chemical evolution and the origin of life, medicinal chemistry, the world of plastics, chemical hazards in the home, and many other pertinent and topical areas of chemistry, along with developing an appreciation of the intrinsic beauty of chemistry.

With this knowledge, the student will be in a better position to evaluate the impact of chemistry on society, and be placed in a position of being better able to make knowledgeable choices as a consumer and voter.

BIBLIOGRAPHY: *Scientific American*, *Wall Street Journal*, *Time* (science section), and any newspaper such as the *Tacoma News Tribune*, *Seattle Times*, *Seattle PI*.

REQUIREMENT(S) FILLED:
General University Core Requirement

GRADING SYSTEM: A,B,C,D,E
MAXIMUM ENROLLMENT: 30
MEETING TIME AND PLACE:
9:00 a.m. - 12 noon, R-108

**0808 CHEMISTRY 308
THE AIR UP THERE
(AND DOWN HERE, TOO)**
W. Giddings

An invitation to friendly acquaintance with the thin, fragile, fluid layer within which we live - the atmosphere. Class sessions will consider the role of the atmosphere in the processes of climate and weather and their effects upon human activity, as well as the possible effects of human activity upon weather and climate. Specific concerns include: carbon dioxide and the polar ice caps; particles and a new ice age; impact of SST exhaust, spray-can propellents, and fertilizer by-products on the ozone layer.

Natural cycles of carbon, nitrogen, and sulfur compounds will be described and compared with the results of industrial activity. The Clean Air Act and its amendments represent one approach to air quality problems; billions of dollars are at stake in control strategies for automobile exhaust alone. Achieving independence from oil import requirements threatens massive increases of pollutants from burning coal. How will you want your representatives to vote? How may your health and welfare be affected?

No specific knowledge of chemistry or mathematics will be expected. Readings will be assigned and weekly examinations scheduled. Students may elect an oral presentation or written paper in place of each examination. Those who may have background in science will be encouraged to do more advanced projects. Attendance at all class sessions will be expected.

Field trips are envisioned to include a weather station, pollutant sources and monitoring stations, and public hearings of the Puget Sound Air Pollution Control Board.

BIBLIOGRAPHY: D.M. Gates, *Man and His Environment: Climate; Weather*; National Academy of Sciences, *Atmospheric Chemistry, Problems and Scope*.

REQUIREMENT(S) FILLED:
Interim
GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$20 to cover field trip expenses.

MAXIMUM ENROLLMENT: 50
MEETING TIME AND PLACE: 12 noon - 2:00 p.m., R-108

**5082 CHEMISTRY 312
SO YOU THINK YOU ARE HUMAN**
(See interdepartmental listing)



*"I believe a leaf of grass is no less
than the journey work of the stars."
— Walt Whitman*

**0824 CHEMISTRY 350
INSTRUMENTATION
FOR THE LIFE SCIENCES**

L. Layman

This course is designed to allow students in medical technology, environmental science, earth science, biology, and related fields to develop a working knowledge of the chemical instrumentation used in these areas. The approach will be to examine a variety of instruments to determine: 1) how they work; 2) how to interpret instrumental data to gain useful information; 3) what are the limitations of instrumental methods.

Some of the instruments discussed in lecture and used by the students will include an atomic absorption spectrometer, gas and high pressure liquid chromatographs, ultraviolet and infrared spectrometers, and electrochemical apparatus. A degree of flexibility is designed into the laboratory course to allow the student to emphasize techniques applicable to his own area of interest.

This course will provide a student with an excellent opportunity to acquire a fundamental knowledge of instrumentation and basic electricity. Included will be an exciting and useful laboratory program to allow the students to set up experiments and to collect and analyze useful data. The laboratory work will develop practical solutions to analytical problems, while the lecture will fill in the students' understanding of the principles and techniques involved.

BIBLIOGRAPHY: Bender, *Chemical Instrumentation*.

REQUIREMENT(S) FILLED: General University Core Requirement

PREREQUISITE: 1 semester general chemistry or introductory biology

GRADING SYSTEM: A,B,C,D,E
MAXIMUM ENROLLMENT: 15
MEETING TIME AND PLACE:
Lecture — 10:00 a.m. - 12 noon, M - F, R-309; Laboratory — 1:00 p.m. - 5:00 p.m., M,W, and T,R; each student meets two days per week, R-203.

**5094 COMMUNICATION ARTS 304
CHOREOGRAPHY
AND DANCE PRODUCTION**

(See interdepartmental listing)

**5090 COMMUNICATION ARTS 311
LEADERSHIP:
A GUIDE TO BEING A
STAR... OR... THEORY AND
PRACTICE OF LEADERSHIP
AND GROUP BEHAVIOR**

(See interdepartmental listing)

**0916 COMMUNICATION ARTS 318
MASTER CLASS:
THE ART OF MIME**

C. St-Denis, Artist-in-Residence

Claude St-Denis returns to conduct his workshop exploring the unique and curious art of pantomime. Students participating in this experience will gain insight to a master mime: his techniques and philosophy.

Mime is communication through gesture rather than words. It is the communication of ideas, emotions, and stories. The study of mime involves working to gain control over every separate part of the body in all possible directions. As one achieves such control, any movement one wants to make can be made, any physical posture necessary for a character can be sustained, and any physical image in space can be projected. Mime also teaches the economy of movement — when to gesture, when to remain still.

Students of Monsieur St-Denis will devote the majority of the workshop to developing basic mime technique: exercise, body control, and movement. Considerable emphasis will be placed on improvisation.

REQUIREMENT(S) FILLED: Interim

PREREQUISITE: The study of mime requires very serious discipline. All participants in this workshop should have full use of limbs and body. Grades will be determined on participation and attendance.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE:
9:15 a.m. - 12:15 p.m., UC-CK

**5070 EARTH SCIENCE 307
EXPLORING
THE NORTHWEST'S WINTER**

(See interdepartmental listing)

**5152 EARTH SCIENCE 309
USE OF DEMONSTRATIONS
IN THE PHYSICAL SCIENCES**

(See interdepartmental listing)

**1416 ECONOMICS 150
PRINCIPLES OF ECONOMICS**
D. Wentworth

This course will familiarize students with economic principles and an overview of the U.S. economy. It will deal with key concepts and relationships of economics as important forces at work in our daily lives. Current economic problems, myths and mysteries will be probed and analyzed.

The course will devote equal time to introductory micro and macro economic materials. Among the topics to be covered are inflation, recession, limits of growth, tax reform, wage and price control, monopoly, population growth, and monetary policy.

This course is a regular course offering. It will fill social science core requirements. All students will be expected to participate in class discussion, small group projects and individual research papers.

BIBLIOGRAPHY: S.L. Brue, D.R. Wentworth, *Economic Scenes: Theory in Today's World*; R.M. Pirsig, *Zen and the Art of Motorcycle Maintenance*.

REQUIREMENT(S) FILLED: General University Core Requirement

GRADING SYSTEM: A,B,C,D,E
MAXIMUM ENROLLMENT: 40
MEETING TIME AND PLACE:
8:00 a.m. - 10:00 a.m., A-200

1424 ECONOMICS 305
AGGREGATE ECONOMIC GAMES
E. Ankrim

This course involves the study of economic interrelationships on the aggregate level through participation in a macro economic game. By competing in a gaming environment, it is hoped the student will gain a greater appreciation for economic abstractions that might otherwise seem drab or meaningless. The course demonstrates how the level, distribution and growth of national product are determined by the efforts of three groups — businessmen, workers and government officials. Each student acts as a representative of either organized labor, business or government in one of two countries. He will have complete control over the policies of his own sector in that country. For each, the objective is to outperform his counterpart in the other country in pursuing his economic goal. Labor attempts to secure a higher standard of living, business will try to accumulate higher profits and government wants to promote more prosperity than exists in the other country. Participation in this game should provide improved insight into the interaction of markets such as commodity, labor, money and bond markets and international movement of goods and funds.

Final grades will be a function of performance in the game (33%) and three in-class exams on relevant economic theory (67%). All class materials will be available during the November meeting for a nominal fee (less than \$2).

BIBLIOGRAPHY: P. Lindert, *Macro: A Game of Growth and Policy*.

REQUIREMENT(S) FILLED:

Interim

PREREQUISITE: Economics 150

GRADING SYSTEM: A,B,C,D,E

MAXIMUM ENROLLMENT: 24

MEETING TIME AND PLACE:

9:00 a.m. - 10:00 a.m. and 1:00 p.m. - 2:00 p.m., A-202

1428 ECONOMICS 308
**WORLD FOOD
CRISIS: MYTH AND REALITY**
D. Vinje

The course will start with a brief exploration of the below-listed "Pessimist's" views as to world food production. The remainder of the course will be devoted to attempts by the class, either individually or as a team, to either refute the "Pessimist's" contentions or show how, by appropriate public policy, they may be neutralized.

A. The Pessimist contends that any attempt by the U.S. to conserve on its food consumption will only result in smaller U.S. exports of food products to the rest of the world.

B. The Pessimist states that any attempts by the U.S. to expand its distribution of free food products to the developing nations will only prolong the current food crisis.

C. The Pessimist contends that the "Green Revolution" represents a step backward for the food producing sector of the developing nations imposed on them by multinational companies in pursuit of increased sales.

D. The Pessimist maintains that a large part of the current food crisis is a result of developing nations viewing primary products such as foodstuffs, as an area of activity that serves the Imperialistic needs of the industrial countries of the world.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25

MEETING TIME AND PLACE:
10:00 a.m. - 12 noon, A-202

1504 EDUCATION 303
CLASSROOM PHOTOGRAPHY
M. Churney

Students will learn to use basic darkroom equipment to develop film, and to print and enlarge negatives they have produced. Students will construct and use pinhole cameras and will explore ways of making prints without cameras. There will be optional information on constructing a

rudimentary darkroom. The student must supply his/her own camera; any type, including an instamatic, will be useable. There will be some optional choices: experiences with color slides, close-up equipment, copying techniques, and slide/tape presentations. The student may choose to schedule additional time in the darkroom. This experience is designed to provide the skills to meet the following needs:

1. For prospective teachers who would like to use photography as an expressive activity with their students. (Elementary through Secondary)
2. For students who would like to produce photographic material to use in their classroom (story sequences, charts, maps, portraits, etc.)
3. For students who would like to be involved in a low-stress approach to basic camera and darkroom techniques.

Evaluation: Students will demonstrate competence in basic darkroom techniques and will complete a series of tasks resulting in a portfolio of prints.

BIBLIOGRAPHY: J. Shull, *The Hole Thing*.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

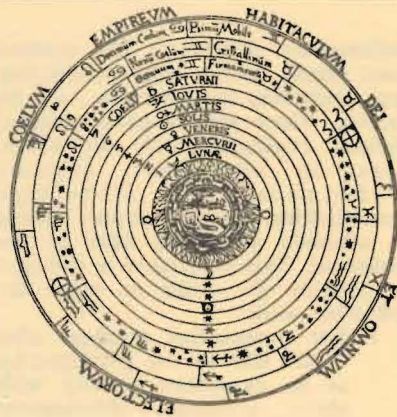
COST IN ADDITION TO TUITION: \$10 lab fee; student may choose to buy additional printing paper.

MAXIMUM ENROLLMENT: 12
MEETING TIME AND PLACE:
9:00 a.m. - 12 noon, R-207

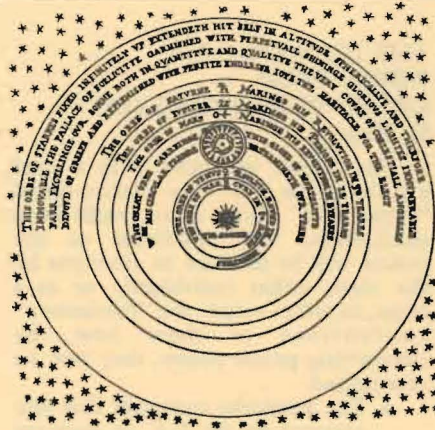
5152 EDUCATION 309
**USE OF DEMONSTRATIONS
IN THE PHYSICAL SCIENCES**
(See interdepartmental listing)

5090 EDUCATION 311
**LEADERSHIP:
A GUIDE TO BEING A
STAR... OR... THEORY AND
PRACTICE OF LEADERSHIP
AND GROUP BEHAVIOR**
(See interdepartmental listing)

The Ptolemaic universe from print of 1539.



The sun-centered Copernican universe from a drawing of 1576.



The sun and attendant worlds.



323

As if I asked a common Alms,
And in my wondering hand
A Stranger pressed a Kingdom,
And I, bewildered, stand –
As if I asked the Orient
Had it for me a Morn –
And it should lift it's purple Dikes,
And shatter me with Dawn!

– Emily Dickinson

“But if a man would be alone, let him look at the stars. The rays that come from those heavenly worlds will separate between him and what he touches. One might think the atmosphere was made transparent with this design, to give man, in the heavenly bodies, the perpetual presence of the sublime. Seen in the streets of cities, how great they are! If the stars should appear one night in a thousand years, how would men believe and adore; and preserve for many generations the remembrance of the city of God which had been shown! But every night come out these envoys of beauty, and light the universe with their admonishing smile.”

Ralph Waldo Emerson
From his essay titled “Nature”

GENESIS III

1. From the conception the increase.
From the increase the swelling.
From the swelling the thought.
From the thought the remembrance.
From the remembrance the desire.
2. The word became fruitful:
It dwelt with the feeble glimmering:
It brought forth night:
The great night, the long night,
The lowest night, the highest night,
The thick night to be felt,
The night to be touched, the night unseen.
The night following on,
The night ending in death.
3. From the nothing the begetting:
From the nothing the increase:
From the nothing the abundance:
The power of increasing, the living breath
It dwelt with the empty space,
It produced the firmament which is above us.
4. The atmosphere which floats above the earth.
The great firmament above us, the spread-out space dwelt with the early dawn.
Then the moon sprang forth.
The atmosphere above dwelt with the glowing sky.
Then the sun sprang forth.
They were thrown up above as the chief eyes of heaven.
Then the sky became light.
The early dawn, the early day.
The midday. The blaze of day from the sky.

(New Zealand: Maori)



1524 EDUCATION 320A

(4 semester hours)

INDEPENDENT STUDY

A.K. Pederson

An experience in a local school district at the elementary level involving activities such as teaching, working as a teacher-aide, and/or working with youngsters in the classroom setting.

If you desire to use this experience as a part of the K-12 certification requirement, see your advisor in the School of Education for approval.

Placements in schools are the responsibility of the School of Education and require a completed application form and a proposal for the study prepared by the student. Applications and proposal forms are available from the instructor. These must be completed and signed by the instructor before December 1, 1976, and before registration is completed. Independent study card is required.

BIBLIOGRAPHY: Readings assigned on the basis of individual need.

REQUIREMENT(S) FILLED: Interim. Some students may be meeting certification requirements for K-12 certificates in music and/or physical education.

PREREQUISITE: Education 201 or 251. This course is designed for majors.

GRADING SYSTEM: H, P, No credit

1528 EDUCATION 320B

(4 semester hours)

INDEPENDENT STUDY

M.J. Baughman

An in-school experience in a local school district at the secondary level involving such activities as teaching and/or working with adolescents in the classroom setting.

If you desire to use this experience as a part of the K-12 certification requirement, see your advisor in the School of Education for approval.

Placements in schools are the responsibility of the School of Education and require a completed application form and a proposal for the study prepared by the student. Application and proposal forms are available from the instructor. These must be completed and signed by the instructor before December 1, 1976, and before registration is completed. Independent study card is required.

BIBLIOGRAPHY: Readings assigned on the basis of individual need.

REQUIREMENT(S) FILLED: Interim. Some students may be meeting certification requirements for K-12 certificates in music and/or physical education.

PREREQUISITE: Education 201 or 251. This course is designed for majors.

GRADING SYSTEM: H, P, No credit

1536 EDUCATION 320C

(4 semester hours)

INDEPENDENT STUDY

C.E. DeBower

An off-campus experience in a non-local school district involving teaching and/or working with youngsters in a classroom setting.

Placements in schools are the responsibility of the School of Education and require a completed application form and a proposal for the study prepared by the student. Application and proposal forms are available from the instructor. These must be completed and signed by the instructor before December 1, 1976, and before registration is completed. Independent study card is required. Not applicable to K-12 certification.

BIBLIOGRAPHY: Readings assigned on the basis of individual need.

REQUIREMENT(S) FILLED: Interim

PREREQUISITE: Education 201 or 251. This course is designed for majors.

GRADING SYSTEM: H, P, No credit

9595 EDUCATION 320D

(1 - 4 semester hours)

INDEPENDENT STUDY

F.C. Olson

A basically non-school, library-oriented study such as the development of curricular materials, an in-depth particular problem investigation, or reading in an educational field.

Applications and proposal forms are available from the instructor. The proposal forms must be completed by the student and approved by the instructor before registration is completed. An independent study card is required. Not applicable to K-12 certification.

BIBLIOGRAPHY: Readings assigned on the basis of individual need.

REQUIREMENT(S) FILLED: Interim

PREREQUISITE: Education 201 or 251. This course is designed for majors.

GRADING SYSTEM: H, P, No credit

1716 EDUCATION/ PSYCHOLOGY 490

PSYCHOLOGY OF THE HANDICAPPED CHILD

J. Fletcher

Study of the psychological state of the physically handicapped child, with opportunity for observation of effective methods of coping with problems within the school. Students will participate in an intensive study of a special area of choice. Students will be required to give evidence of productivity in the area of choice and to take part in class discussions of various problems. Communicative skills will be focal. Mornings per week will be spent in the school or agency. Class discussion and demonstration will be on Monday and Wednesday afternoon, 1:00-3:30.

In order to take into consideration individual needs and desires in planning and placing field experience, it is essential that each member of the class be present at the pre-session. Non-attendance at the pre-session will necessitate dropping the course.

BIBLIOGRAPHY: Wright, *Physical Disability, a Psychological Approach*.

REQUIREMENT(S) FILLED: Optional course for students desiring Special Education endorsement.

PREREQUISITE: Open to Juniors and Seniors with a basic course in Education, Nursing, Psychology or Sociology. This course is designed for advanced students.

COST IN ADDITION TO TUITION: Student is responsible for transportation to schools or agencies.

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE: 1:00 p.m. - 3:30 p.m., M,W, A-221

1544 EDUCATION 583

Section A

(2 semester hours)

READINGS IN EDUCATIONAL ISSUES AND PROBLEMS

(Elementary, Secondary and General Counselor emphasis)

J. Williamson

This course is open only to students who have been accepted into the M.A. program in Counseling and Guidance. Students will read and report on current educational issues and problems.

BIBLIOGRAPHY: Any current Education Psychology books and periodical literature.

REQUIREMENT(S) FILLED: An optional course for the M.A. program.

PREREQUISITE: Open to students in Elementary, Secondary or General Counseling. This course is designed for majors or advanced students.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE:

Initial meeting, November 18, 4:30 p.m., A-210. Class times - 4:00 p.m., M,W, A-117

1548 EDUCATION 583

Section B

(2 semester hours)

1606 (4 semester hours)

READINGS IN EDUCATIONAL ISSUES AND PROBLEMS

(Higher Education emphasis)

P. Beal

This course is open only to graduate students who have been accepted into the M.A. program in Counseling and Guidance. Students will read and report on current educational issues and problems. In addition, students will have practicum experiences in their designated areas.

MEETING TIME AND PLACE:

Initial meeting, December 9, 4:30 p.m., A-210. Class times - 4:30 p.m., R, A-117

1748 ENGLISH 230

INTRODUCTION TO CONTEMPORARY LITERATURE

D.M. Martin

The years that have passed now since our culture experienced Auschwitz and Hiroshima, Belsen and Dresden, have given birth to a literature which can take for granted neither the dignity of individual human life nor its central position in a world which seems more likely to mock the pretensions of humanism than to celebrate its traditional values. I would like to read a list of representative American novels written in these years together with a group of students interested in testing the likelihood that a genuine nonhumanist fiction will emerge as a dominant force in the next decade. By way of evaluating John Barth's wry judgment that "America is the only nation capable of a cheerful nihilism," we will study particularly the role played by humor in the creation of this "new novel."

An even more inclusive intention will be to derive some critical standards by which we will be prepared to judge the new fiction of the future. As we read together both the avant-garde and the more traditional novels of the last twenty-five years, we will prepare to answer these questions about the role of reading fiction in our future lives: How will I know which books I should read? How will those books reflect and shape my personal vision as I encounter the new worlds that are just now being born? How will I change my expectations to adapt to new experiments?

Students may expect to write three brief papers addressing their reactions to the works we read, and they may expect from me individual help in improving their writing ability as the tool with which to deepen and strengthen their reading of fiction.

BIBLIOGRAPHY: J. Barth, *The End of the Road*; S. Bellow, *Herzog*; R. Brautigan, *Trout Fishing in America*; V. Nabakov, *Lolita*; T. Pynchon, *V*.

REQUIREMENT(S) FILLED:

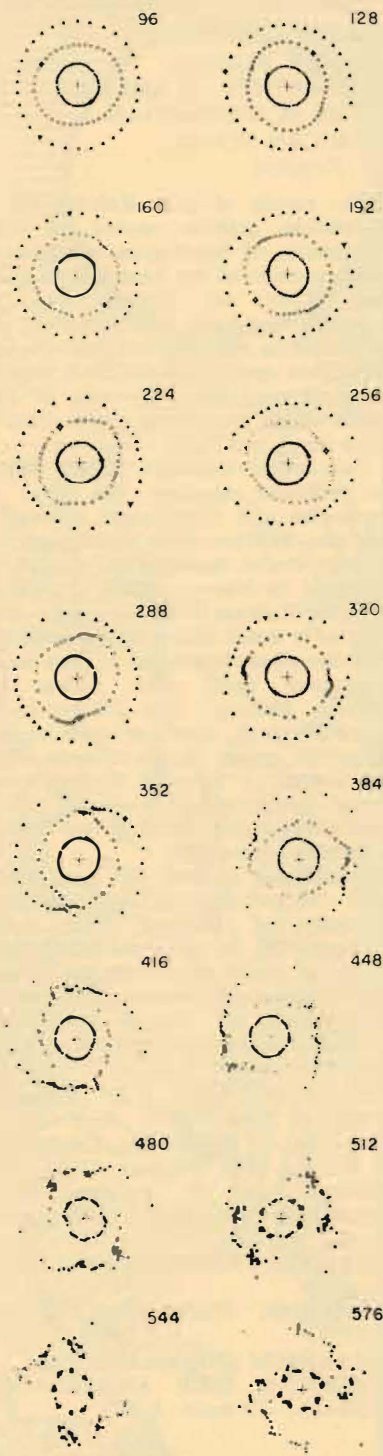
General University Core Requirement

GRADING SYSTEM: A,B,C,D,E

MAXIMUM ENROLLMENT: 25

MEETING TIME AND PLACE:

10:00 a.m. - 12 noon, M - F, A-219



1804 ENGLISH 303
THE NEW WORLD:
IMMIGRATION TO AMERICA
IN THE SCANDINAVIAN-
AMERICAN NOVEL
P.M. Reigstad

The novels of O.E. Rolvaag are a remarkable artistic record of the experiences of Norwegian immigrants on the prairies of the American Middle West. They are written out of Rolvaag's first-hand understanding of the problems and opportunities facing Norwegian settlers in the New World. We shall read the only two of his novels which are still in print: *Giants in the Earth* and *Peder Victorious*.

Two other novelists, Johan Bojer and Wilhelm Moberg, the first a Norwegian and the second a Swede, have also written about immigrants to the New World. Bojer's *The Emigrants*, published in Norway about the same time as Rolvaag's *Giants*, tells the story of a small group of Norwegians from the time they begin to plan their departure until their arrival in America. Moberg's *The Emigrants*, a recent tetralogy, covers a much longer span of time and records the experiences of Swedish settlers over several generations. We shall read Bojer's novel and the first two books of Moberg's tetralogy.

In addition to these five novels, we shall examine critical studies, especially of Rolvaag. The main emphasis will be on these immigrant studies as works of literary art rather than as historical records. The course is designed to fit in with the Scandinavian studies program now being developed at PLU.

BIBLIOGRAPHY: O.E. Rolvaag, *Giants in the Earth* and *Peder Victorious*; J. Bojer, *The Emigrants*; W. Moberg, *The Emigrants and The Promised Land*; P. Reigstad, *O.E. Rolvaag: His Life and Art*; G. Thorson, ed., *O.E. Rolvaag*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE: 10:00 a.m. - 12 noon, A-212

1808 ENGLISH 305
SCIENCE
FICTION: HUMAN FUTURES
R. Seeger, Assisted by Dale Fixsen

Science fiction is a new and popular literature. Many of its strongest advocates believe that it is the *only* literature capable of approaching the mind-breaking problems of life in a culture dominated by and obsessed with change.

Science Fiction: Human Futures is intended to introduce science fiction to the general reader. The course will begin with an exploration of the history and definitive characteristics of the genre, and will proceed by more-or-less open discussion of major novels and short stories which take as their central theme the extrapolation of possible human futures. In the process we will try to acquire a working definition of the genre, an understanding of its objectives, and a critical theory adequate to evaluate its literary and intellectual qualities.

Participants will read eight to ten major science fiction books, participate in class discussion, write two short papers due in the second and fourth weeks, and possibly view movies, videotapes and the like. There may be a minimal charge for attendance at an on-campus showing of one or more science fiction movies.

BIBLIOGRAPHY: Tentatively - I. Asimov, *The Gods Themselves*; A.C. Clarke, *Childhood's End*; F. Herbert, *Dune*; U.K. LeGuin, *The Dispossessed*; S. Lem, *Solaris*; E.E.D. Smith, *The Skylark of Space*; K. Vonnegut, *The Sirens of Titan*; H.G. Wells, *The Time Machine*; Total Effect, ed., *Survival Printout*; D. Allen, *Science Fiction: The Future*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Perhaps a nominal fee for attending a movie on campus.

MAXIMUM ENROLLMENT: 30
MEETING TIME AND PLACE: 10:00 a.m. - 12 noon, Daily, A-223

1816 ENGLISH 307
AMERICAN
FICTION AND THE PURSUIT
OF HAPPINESS, 1877 - 1977
D.A. Larson

A course in that most engaging of human arts, fiction, and that most elusive of human goals, happiness. Its general aims are two: first, to prove the truth of Joseph Conrad's assertion that "the pursuit of happiness by means lawful and unlawful, by resignation or revolt, is the only theme that can be legitimately developed by the novelist," and second, to examine the strange, sometimes tragic variations on this theme in each of seven novels assigned, beginning with Henry Adams' *Democracy* (1880) and ending with Joseph Heller's *Something Happened* (1974).

Specifically, we will begin by postulating the theory that "life, liberty, and the pursuit of happiness" are indeed, as our Founding Fathers tell us, "inalienable" human rights - are in fact, as we Americans still believe, the very foundations of our nation's vaunted democratic polity. In the days and weeks remaining, however, we will consider the practical limitations to this familiar theory of American life, examining in particular the novelist's corollary notion that "Happiness in this world, when it comes, comes incidentally. Make it the object of pursuit and it never is attained." In effect, ours will be a pursuit like the novelist's own, alternating between the political and literary "fictions," the politico-literary "illusions," of the American mind.

Besides reading each of the seven novels assigned, all students can expect to participate regularly in daily class discussions, to write at least two short papers (a three-page personal essay and a five-page literary critique), and perhaps most importantly, to keep a journal of private thoughts on the nature of human happiness, portions of which we will publish at the end of class in a special student-produced and student-edited anthology. The result should be enjoyed by all, as I hope will be the coffee, tea, and cocoa used to lubricate our daily conversations.

*When I consider thy heavens, the
work of thy fingers, the moon and
the stars, which thou hast ordained.--
Psalm 8:3*

BIBLIOGRAPHY: In addition to Adams and Heller's novels, E. Wharton, *The House of Mirth*; W. Cather, *A Lost Lady*; F.S. Fitzgerald, *The Great Gatsby*; N. West, *The Day of the Locust*; S. Bellow, *Seize the Day*.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE:
10:00 a.m. - 12 noon, A-208

**1824 ENGLISH 311
MODERN FICTION
AND POETRY OF CANADA
L.M. Johnson**

In keeping with the theme "Galaxies" for Interim 1977, our task in English 311 will be to discover the "stars" among Canadian women writers of fiction and poetry. From a sampling of works written by women writers from 1900 through 1976, we shall try to evaluate them and their place in writing by applying to them standards used in most classes of literary criticism, particularly standards taught by Northrop Frye, himself a Canadian critic of international fame.

The primary focus will be on Anglo-Canadian literature but some work by French-Canadian writers will be read also, this latter in translation, of course.

To complete the course, students will read one book of short stories, several novels selected from those listed in the tentative bibliography, and several major poems furnished through library reserves or duplicated materials. There will be 3 short papers and one final oral review of the course.

BIBLIOGRAPHY: R. Weaver, ed., *Canadian Short Stories*; M. Laurence, *Tomorrow Tamer*; G. Graham, *Earth and High Heaven*; G. Roy, *Tin Flute*; E. Wilson, *Equations of Love*; and a book of poetry written by Canadian women poets.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE:
1:00 p.m. - 3:00 p.m., A-215

**1828 ENGLISH 312
THE WORLD OF THE BOOK
T.L. Elliott**

This course deals with the history of the book, and with how it is created, managed, designed and distributed in the United States. The course will include visiting lectures by editors and authors, some laboratories, and contacts with local printers both on and off the campus.

The student will develop some knowledge of copy-editing, editorial procedures, the materials of book production, and printing processes. The student will work on actual books in various stages of manuscript and production, with strong emphasis on copy-editing, correction, and rewriting of manuscript copy.

For the capable student interested in publishing as a possible career, there will be an opportunity for internships with major book publishers in various parts of the United States in the summer or subsequent semesters. In following Interims - students may investigate in depth a particular topic pertinent to the book and publishing world through independent study with the instructor.

Students will be expected to read at least three books on the world of the book and publishing. The course will also involve one or two written reports and a final exam, either written or oral.

BIBLIOGRAPHY: C. Grannis, *What Happens in Book Publishing*; H. Bailey, *The Art and Science of Book Publishing*; E. Arnold, *Ink on Paper*; H. Madison, *Book Publishing in America*; J. Dessauer, *Book Publishing: What It Is, What It Does*.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE:
1:00 p.m. - 3:00 p.m., A-200

**1836 ENGLISH 313
KALEIDOSCOPE
OF BRITISH FICTION
R.A. Klopsch**

This course will enable students to have a general overview of the range and types of British fiction. An examination of the forms and critical terms used in the study of the short story and novel will precede a brief history of fiction in Great Britain. After a short survey of critical evaluations of classic British fiction writers, such as Fielding, Dickens, Austen, Hardy and Lawrence, individual reading programs will be arranged with each student dependent upon his or her interests and background. At the end of an intensive reading period, each student will give an oral report to the class and complete a paper to be graded by the instructor.

Each student will discuss his/her readings with the instructor in a tutorial setting, thus making it possible to compare his/her views with those of another. Students will be encouraged to discuss their readings with fellow students, and the final reports should give each student a contact with the views of many readers on many stimulating writings and a whetted palate for future readings in English fiction.

BIBLIOGRAPHY: R. Scholes, ed., *Approaches to the Novel*. Novels and short story collections may be selected from the complete range of British fiction from the beginnings to the present from our library or others.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE:
1:00 p.m. - 3:00 p.m., A-206

1844 ENGLISH 315
TALES OF TRAVEL
D.E. Van Tassel

From Homer's *Odyssey* to Steinbeck's *Travels With Charley*, for time out of mind, people have whetted their wanderlust and plied their quills on tales of travel. Man is surely a restless and curious soul. Else why would he have sallied forth so far, charted courses by and even between the stars, or built an impressive literary memorial to his expanding horizons? To make connections with our fellow wanderers, we'll steep ourselves in the sweep, excitement, variety, artistry, and popularity of travel book: trek and sail into such imaginary journey classics as *Pilgrim's Progress* and *Gulliver's Travels*; explore selected travel journals; sojourn among works of literature in which a journey motif makes up the setting and is integral to the meaning; pack in a novel in the picaresque tradition. Our armchair itinerary includes a brief survey of accounts, both factual and fantastic, of famous voyages, pilgrimages, and explorations as well as a glance at high and lowbrow commercial guidebooks.

It will be our business and pleasure to discover the backgrounds out of which the representative works arose and to assess the impact of such tales upon our common culture. We're apt to find ourselves poring over maps, checking the compass, becoming acquainted with navigational tools, sorting out the marvelous from the mundane. In short, orienting ourselves to a galaxy of travelers. Though happily our readings will widen our geographical, historical, and political knowledge, our primary focus will be literary and biographical.

Each student is expected to read the assigned works or approved options, prepare for and participate in discussion groups and tests, and (consulting with the prof about topics) write two papers: 1) a critique of a single work, and 2) either a short journal, authentic or fictitious, or a mini-research paper on some topic turned up along the way.

BIBLIOGRAPHY: Available from the instructor.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: A,B,C,D,E
MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE:
9:00 a.m. - 11:00 a.m., A-206

5050 ENGLISH 319
A GALAXY OF EYES: CREATIVITY
(See interdepartmental list ng)

1848 ENGLISH 329
FREELANCE WRITING
G. Blomme

Haven't you sometimes longed for special knowledge — about a favorite athlete (Who Ever Heard of Nadia What's-Her-Name?), an odd historical character (Chidiok Tichborne: His Last — and Only — Poem), a region's history (One Hundred Years Ago in Parkland)? But you may have had trouble finding the information you wanted, and you may have more trouble once you find it. For you soon realize that you need an audience: you've told your story to everyone you know who's interested, and to a few who aren't interested, and still you're eager to tell it. If you are not daunted by a blank page, if sometimes you have actually found pleasure in writing, you might think of writing for others.

In Freelance Writing, you'll find out about library and field research techniques, so that no matter what information you want, you'll know how to get it. You'll learn about the many audiences available to you — the readers of hundreds of different magazines and periodicals, or the potential readers among your employers — or — employees-to-be.

And your writing will be read. To help you prepare for the scrutiny of others, and (ideally) to encourage the best in your own writing, the instructor and the other students in the course will be your readers and advisers. Your own articles will be the primary texts for the course. (Three short articles and one longer one, submitted periodically, will be reduplicated so that each member of the class will have a copy.) To add their insights into the writer's craft, we'll have a guest or two from the "real world" of non-fiction — a freelance writer, a literary agent, or an editor.

So you'll learn more about the subjects that intrigue you, and about how to put your knowledge into words for others. But you may discover the most about yourself — about your own curiosity and its best satisfaction, about your own creativity and its best nurturing.

The Christmas break may be a good time for leisurely research — so come meet the instructor before the holidays begin.

free lance, n. (a) In the Middle Ages, and subsequently, one of those knights or roving soldiers whose services were purchasable by any state or commander.... (b) colloq. One who writes, especially for newspapers or magazines, without being regularly employed; hence, any artist or actor who moves from one engagement to another.

BIBLIOGRAPHY: W. Zinsser, *On Writing Well*.

PREREQUISITE: Successful completion of English 101, or equivalent, recommended.

GRADING SYSTEM: A,B,C,D,E
COST IN ADDITION TO TUITION: \$3 for reduplicating articles.

MAXIMUM ENROLLMENT: 15
MEETING TIME AND PLACE:
10:00 a.m. - 12:30 p.m., H-109

2404 FOREIGN LANGUAGES 303
THE SACRED
AND THE SECULAR:
A THEMATIC SURVEY
OF MEDIEVAL LITERATURE
D.P. Sudermann

Johan Huizinga describes the later Middle Ages as an era of extremes: "The men of that time always oscillated between the fear of hell and the most naive joy, between cruelty and tenderness, between harsh asceticism and insane attachment to the delights of the world." These extremes are comprehensible only in terms of the religious consciousness of the age. In this course we shall use medieval literature to examine some of the contradictions and extravagances of belief and behavior, to experience for ourselves the force of spiritual ideals, and to recapture the color, humor, vigor of secular reaction. The

course will be organized around a series of themes: 1) the spiritualization of Time and Nature — the visibility of God in the Universe, 2) the similarity of mystic and erotic experience, 3) courtly love and *caritas* — the “reality” of illusion, 4) death in life or life in death — the mortification of the flesh versus carnal delights, 5) the community of the faithful and its corruption — monastic satire, 6) violence as a way of life — a comparison of the heroic and romantic mentalities.

Literary works will be chosen which are both relevant to these themes and representative of the major genres of medieval literature (hymn, sequence, vernacular love lyric, heroic epic, drama Arthurian romance, *chanson de geste*, sermon, example). Among these will be the *Canterbury Tales*, Latin liturgical lyric, French, German, and Medieval Latin crusade poetry, courtly love lyric, the *Play of Daniel*. Where English versions are not available, original translations will be provided. Study and class emphasis will fall on careful reading, analysis, and discussion of the literary texts. The general themes will be introduced in lectures.

BIBLIOGRAPHY: J. Huizinga, *The Waning of the Middle Ages*; W.T.H. Jackson, *The Literature of the Middle Ages*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25

MEETING TIME AND PLACE: 10:00 a.m. - 12 noon, L-106

2428 FOREIGN LANGUAGES 307 NORWEGIAN FOLK ARTS

A. Toven

The folk arts are very much a part of Norwegian culture and have been for a long time. A study of these arts, therefore, can contribute greatly to a better understanding of the culture in general. The interest in Norwegian folk arts, especially *rosemåling*, has been increasing in recent years both in the “old country” and here in the U.S. It seems appropriate then to give the students an opportunity to get better acquainted with this part of their ethnic heritage.

This course will provide theoretical background on Norwegian folk arts in general, as well as an opportunity to learn one of the crafts. The first part is a survey of the folk arts including *rosemåling*, wood carving, weaving, and needle work from the Viking Age till the present. Through lectures, films, slides, and demonstrations questions such as what is folk art; how does it differ from other forms of art; why did particular arts flourish in Norway, and what is happening to them today will be discussed. Particular styles and schools will also be considered.

For the second part of the course the students will be divided into three (possibly four) groups in order to concentrate on one of the following arts: Hardanger embroidery, needle point, *rosemåling*, and possibly wood carving.

At the end of the third week, the students will be expected to turn in a notebook containing lecture notes, illustrations and notes from outside reading, and patterns or samples of the different folk arts. There will be a midterm examination.

BIBLIOGRAPHY: Textbook — J. Stewart, *The Folk Arts of Norway*; H. Arneberg, *Norwegian Art*; R. Hauglid, *Norway. A Thousand Years of Native Arts and Crafts*; Miller, Aarseth, *Norwegian Rosemåling*; Molaug, Engelstad, Astrup, *Sting og søm i gammelt og nytt broderi*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$25 for materials

MAXIMUM ENROLLMENT: 50

MEETING TIME AND PLACE: 1:00 p.m. - 4:00 p.m., M - F, A-207

2416 FOREIGN LANGUAGES 311 THE AFRICAN EXPERIENCE IN THE 20th CENTURY

B. Payne

In this course, we shall explore the experiences of modern Africans as expressed through novels, short stories, poetry, and autobiography. Striving for a balanced outlook, we shall read the works of white as well as black Africans, in French as well as in English. Dr. Farmer, of the Political Science Department, has generously agreed to give us the necessary geographical and political background on this continent caught in the turmoil of change. We can then proceed to read and to try to understand the emotional impact of these sociological factors on the individual. Mr. Jonathan N'Gate, of the Central African Republic, now a graduate student at the University of Washington, will speak with us and share his insights into African life and letters.

We hope from this study to increase our understanding of this (to us) enigmatic and polycultural land — to throw some light on the “dark continent.”

Those who read French are especially encouraged to join the class so that they may share their discoveries of French-African literature with those who read only English.

BIBLIOGRAPHY: Mphahlele, ed., *African Writing Today*; Kane, *The Ambiguous Adventure*; Achebe, *No Longer At Ease*; *Things Fall Apart*; Paton, *Cry The Beloved Country*; Brutus, *Letters to Martha and Other Poems*; In French, Césaire, *Une Saison au Congo*; Oyono, *Une Vie de Boy*; Senghor, *Poèmes*; Warner, ed., *Voix francaises du monde noir*.

REQUIREMENT(S) FILLED: Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: The cost of an African dinner which we will cook — can be arranged informally.

MAXIMUM ENROLLMENT: 50

MEETING TIME AND PLACE: 1:00 p.m. - 3:00 p.m., M,W,F, A-212

5054 HISTORY 301 THE BODY BEAUTIFUL

(See interdepartmental listing)

**2504 HISTORY 306
FROM PARIS TO
THE RHINE: THE EVOLUTION
OF EUROPEAN CIVILIZATION**

(See off-campus listing)

**2506 HISTORY 311
NORTHWEST
MOSAIC: MINORITIES IN
PACIFIC NORTHWEST HISTORY**

J. Halseth

The aim of History 311 is to study the collage of people which depicts the demographic diversity and cultural richness of the Pacific Northwest. In the Pacific Northwest, as in the nation, minorities have faced challenges from the dominant culture. Most newly arrived groups have had to answer charges of clannishness and of a refusal to assimilate, and they have been encouraged to abandon cultural habits. Heterogeneity itself has produced conflict in American History. For the first inhabitants (the Native Americans) of the Pacific Northwest, successive waves of immigration from all sources were culturally destructive, just as the institutions of the dominant society systematically excluded Indian participation. Indians of the Pacific Northwest had at first to accommodate European explorers, traders, and adventurers. Only a bit later appeared those more formidable agents of social change, the missionaries, who in their wake brought Yankee businessmen. Subsequently, the processes of urbanization and industrialization made clear that other groups had joined the immigrant stream. The presence of Chinese, Japanese, Scandinavians, Basques, Jews, Czechs, Finns, Italians, Irish, Blacks, Germans, and the new Anglo-Saxons, southerners from Appalachia and the Southeast, altered older demographic patterns.

Students will study such developments utilizing a series of articles which have recently appeared in professional journals and in other sources. They will write papers on the articles read and take a final examination.

BIBLIOGRAPHY: *Pacific Northwest Quarterly; Oregon Historical Quarterly; Idaho Yesterday; Phylon; The Smithsonian; Journal of the West; Journal of Negro History.*

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE:
10:00 a.m. - 12 noon, Nisqually Plain Room

**2508 HISTORY 312
THE DESERT
IN AMERICAN HISTORY**

(See off-campus listing)

**2516 HISTORY 313
CHINESE CONVERSATION,
CALLIGRAPHY AND CUISINE**
M. Rozanski

The purpose of this course is to introduce the student to salient aspects of Chinese culture and civilization. It will focus on the origins, forms and the present character of spoken and written Chinese. It will also examine the cultural matrix within which language and other features of Chinese civilization (such as her cuisine) developed. During the course, the student will be exposed to approximately 500 Chinese characters which he/she will learn to pronounce, read and write. Class time will be allocated to cultural appreciation, Chinese language drills and calligraphy exercises using Chinese ink and brush. Interspersed throughout the course will be intellectual and gastronomical forays into the ethereal world of Chinese cuisine. Students' responsibilities will include: the ability to read and translate several passages from Chinese into English and from English into Chinese; a sample of Chinese calligraphy; and expertise in one Chinese dish. The instructor (and in the case of the gastronomic delight, the students) will critically evaluate these accomplishments as the basis for passage into the world of Chinese culture and civilization.

BIBLIOGRAPHY: Peking University Faculty, *Modern Chinese: A Basic Course*; D. Bodde, *What and Whither: China's Cultural Tradition*; C. Yee, *The Chinese Eye.*

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 40
MEETING TIME AND PLACE:
10:00 a.m. - 12 noon, A-211

**2604 MATHEMATICS 308
FINANCIAL MATHEMATICS**
P.B. Liebelt

The mathematics of finance is both relevant to the real world and very interesting. Most everyone will purchase a home, buy life insurance and participate in a retirement fund. Many will seek a second income by placing savings into bonds, stocks or other investments. A knowledge of the mathematics of finance is essential to understand the implications of these transactions.

Topics will include simple interest, ordinary interest, bank discount, notes, bills, commercial paper, compound interest, sinking funds, insurance and life annuities. At the end of the course, the student will be able to compute his monthly house payment or find the actual interest rate of a loan from the Easy Credit Loan Company.

BIBLIOGRAPHY: Cissell, *Mathematics of Finance.*

REQUIREMENT(S) FILLED:
Interim

PREREQUISITE: High School Algebra

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE:
8:30 a.m. - 10:30 a.m., L-100

Five galaxies.



2608 MATHEMATICS 316
COMPUTERS AND SOCIETY

J. Brink

Computers will have an increasing effect on each of us. Those who want to insure that this effect is for the betterment of mankind will need to be able to use the computer's power to solve today's and tomorrow's problems. They will need to have a basic understanding of the computer, its operation, its use, its potential and its limitations. To help prepare the student in computer use and its implications for society, this course will include readings and discussion. To provide a better understanding of the computer, the students will also learn to use the BASIC language in order to have the computer perform simple tasks at their command.

Students will review readings from the text and participate in class discussions. They will write some simple computer programs, some of which will involve elementary mathematics. They will also complete a project concerning the computer -- either a report on some aspect of the computer and its use or writing an additional, more difficult computer program. Students will be graded on the basis of class participation, homework, quizzes, and the project. Some of the class time will be used as a programming lab.

BIBLIOGRAPHY: S. Rothman and C. Mosman, *Computer and Society*; D.L. Van Tassel, *The Complete Computer*; S.L. Marateck, *Basic*.

REQUIREMENT(S) FILLED:
Interim

PREREQUISITE: High School Algebra. Note: Math 140 and this course cannot both count toward the total number of hours for graduation.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE:
9:00 a.m. - 11:30 a.m., A-215

**2616 MATHEMATICS 318
MATHEMATICS FROM
AN HISTORICAL PERSPECTIVE**
N.C. Meyer

This course will concentrate on those topics in mathematics which are closely related to other aspects of our culture: philosophy, the way we see the physical world, technology, art and social institutions. The topics will be treated in roughly historical order. The primary emphasis will be on the mathematics itself and the secondary emphasis will be on the relationship of the mathematics to our culture at large. The course will survey many topics rather than concentrate in depth on any one subject. Topics will be chosen from the following:

Number and numerals (the calendar, Pythagorean numerology, music);

Similarity (scale drawings, maps, determination of large distances, the size of the earth);

Euclid's geometry (logical development and philosophy, a picture of the universe);

Algebra and analytic geometry;

Calculus (motion, the infinite);

Non-Euclidian geometry (perspective drawing, implications for epistemology, a new picture of the universe);

Probability and statistics (from gambling to life insurance and social science);

Matrix algebra.

Class time will be spent on lecture and discussion of the mathematical concepts, the relationship of these concepts to our culture, and solution of assigned homework problems. Students will be expected to do daily homework problems, read the textbook as well as outside readings and take four examinations (a paper may be substituted for one exam). Grading will be based on mastery of the mathematical concepts and ability to solve problems. The level of the course will be approximately that of Math 133 or Math 151.

BIBLIOGRAPHY: L. Hogbed, *Mathematics for the Million*; M. Kline, *Mathematics, A Cultural Approach*; *Mathematics and the Physical World*; *Mathematics in Western Culture*.

REQUIREMENT(S) FILLED:
Interim

PREREQUISITE: Strong high school mathematics background or any PLU mathematics course.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25

MEETING TIME AND PLACE:
9:00 a.m. - 11:30 a.m., A-214

2704 MUSIC 303

**A CULTURAL EXPERIENCE IN
THE ARTS IN NEW YORK CITY**

(See off-campus listing)

2708 MUSIC 308

THE ORCHESTRA INSIDE OUT
J. Kracht

A first-hand look at behind-the-scenes operations of the modern professional symphony orchestra, together with a survey of the history and development of the orchestra from its beginnings to the present.

With the cooperation of the Seattle Symphony Orchestra, students will attend concerts, observe rehearsals, meet the conductor, mingle with the players, and learn about the symphony orchestra, what it is and how it works, from a variety of viewpoints, including those of the musicians, management, organized labor, and patrons. The orchestra will be seen not only as one of man's highest artistic achievements — both a musical and a mechanical marvel of the most complex design — but also as a job — a source of income and a way of life — for many people, both on stage and off.

In addition to such field experiences in Seattle, regular class meetings will survey orchestral history by examining representative works from the various major historical periods and compositional genres, with in-depth study of those works to be heard in live performance and observed in rehearsal.

Extensive reading and listening required. In addition to class work, students will select from a broad range of independent projects according to their special interests and experience.

BIBLIOGRAPHY: American Symphony Orchestra League, Publications of, *BMI Orchestral Program Surveys*; A. Carse, *The Orchestra in the 18th Century*; *The Orchestra from Beethoven to Berlioz*; W.B. Furlong, *Season with Solti, A Year in the Life of the Chicago Symphony*; *The Future of Concerts and the Young Concert Musician, A survey by the National Music League*; P. Hart, *Orpheus in the New World*; *International Musician, Official Journal of the American Federation of Musicians of the United States and Canada*; Johnstone and Stringham, *Instruments of the Modern Symphony Orchestra*; H. Shanet, *Philharmonic: A History of New York's Orchestra*; selected scores and recordings.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Transportation to and from Seattle — approximately \$15. Concert tickets from \$15 (2 subscription concerts at \$5 each and 1 pops concert at \$5) to \$28.50 (the same as above plus 1 repeat performance of the first subscription concert at \$5 and 2 repeat performances of the second subscription concert, one at \$5 and the other at \$3.50). Books and scores — approximately \$25.

MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE:
9:00 a.m. - 12 noon, E-227

2716 MUSIC 318

CHARLES

IVES: AMERICAN IDEALIST

W.M. Scharnberg

Charles Ives (1874-1954) is generally acknowledged to be the father of American contemporary music. He anticipated almost every important musical development of the last seventy years and some of the most notable trends of the last twenty years. Not only was he a revolutionary in the world of music, but many of his concepts of salesmanship are still practiced in today's insurance industry.

Only America, particularly New England, could have produced a Charles Ives: "He lived his life as he saw fit, caring deeply about mankind, the common man, and the belief that man and nature together could transcend the pettiness of the materialists and politicians of the world. Together with his incredible idealism was an off-beat sense of humor, a New England independence, and an extraordinary flame of musical genius."

Because of the many-faceted life of Charles Ives in the areas of literature, transcendental philosophy, politics, business, and music, the student may choose from a number of fields of American endeavor from the early twentieth century for the topic of an individual project. Lectures and readings will be selected from an extensive list of books, magazine articles, photographs, recordings, and musical scores.

Students will be expected, via an exam, to identify the sources of his inspirations and to recognize his contributions to twentieth-century America.

BIBLIOGRAPHY: H. and S. Cowell, *Charles Ives and His Music*; C. Ives, *Essays Before a Sonata and Other Writings*; C.K. Ives, *Memos*; V. Perlis, *Charles Ives Remembered: An Oral History*; R.S. Perry, *Charles Ives and the American Mind*; F. Rossiter, *Charles Ives and His America*.

REQUIREMENT(S) FILLED:

Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 45

MEETING TIME AND PLACE: 9:00 a.m. - 11:00 a.m., E-122

5054 NURSING 301

THE BODY BEAUTIFUL

(See interdepartmental listing)

5074 NURSING 303

PATIENTS, HEREDITY,
AND SOCIETY - WHOSE RIGHTS,
WHOSE RESPONSIBILITIES?

(See interdepartmental listing)

2804 NURSING 305

HEALTH AND HEALING

J. Zerwekh

The citizen and consumer of health care has a right to understand about his/her own health, and the nursing profession is now accountable to provide knowledge in areas which have historically been the unviolated sanctuary of professionals.

The student will explore methods to take control over his/her own body, keep it healthy, heal simple ills, and make discriminating decisions when helping resources are needed. Discussion will be guided by faculty and community guest speakers on the following topics: 1) healers (scientific and nonconventional) and health resources, 2) the health care system and consumer rights, 3) children for a small planet (conception, parenting, contraception), 4) food for survival, 5) reducing the risk of heart and blood vessel disease and cancer, 6) self-destructive behaviors - alcohol and drug abuse, suicide, 7) self-diagnosis and therapy for common health problems, and 8) first aid including cardiopulmonary resuscitation.

Students will be expected to actively participate in discussion, write two short papers which critically analyze health-related experiences, and pass two multiple-choice quizzes.

BIBLIOGRAPHY: American Hospital Association, "Patient's Bill of Rights;" Boston Women's Health Book Collective, *Our Bodies, Ourselves*; R. Burack, *The New Handbook of Prescription Drugs*; T.P. Labuza, *Food For Thought*; M. Samuels, *The Well Body Book*; J. Sheller, *Childhood Illness*.

REQUIREMENT(S) FILLED: Interim

PREREQUISITE: Students enrolled in the School of Nursing are not allowed to register for this course.

GRADING SYSTEM: A,B,C,D,E

MAXIMUM ENROLLMENT: 30

MEETING TIME AND PLACE: 1:30 p.m. - 3:30 p.m., Daily, IN-122

2808 NURSING 311

SURGICAL INTERVENTION

F. Gough

A patient-oriented study of the nursing care required for patients undergoing surgical intervention. Clinical experiences include selected experiences in the operation room of a local hospital. The student will be asked to submit designated papers.

Objectives of the course are: 1) to develop knowledge of aseptic technic as it applies to the nursing care of the patient in the operating room, 2) to understand his/her role as a member of the operating room team, 3) to develop knowledge of the goals of surgical care and their achievement, 4) to apply aseptic technic in the nursing care of the operating room patient.

BIBLIOGRAPHY: J. Finnegan and G. LeMaitre, *The Patient in Surgery*; J. Luckman and K.C. Sorenson, *Medical-Surgical Nursing*.

REQUIREMENT(S) FILLED: Interim

PREREQUISITE: Students must have completed Level IV Nursing. This course is designed for advanced students.

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Transportation, Meals, Text

MAXIMUM ENROLLMENT: 10

MEETING TIME AND PLACE:

Initial meeting, January 3, 8:00 a.m. - 12 noon, A-207. Lab A - (5 students maximum) 1st week, 6:00 a.m. - 8:00 a.m., M; 7:00 a.m. - 3:30 p.m., T,W. Subsequent weeks, 7:00 a.m. - 3:30 p.m., M,T. Lab B - (5 students maximum) 1st week, 6:00 a.m. - 8:00 a.m., W; 7:00 a.m. - 3:30 p.m., R,F. Subsequent weeks, 7:00 a.m. - 3:30 p.m., R,F.

The first system of musical notation consists of two staves joined by a brace on the left. The upper staff is in treble clef and the lower staff is in bass clef. Both staves have a key signature of two sharps (F# and C#) and a time signature of 2/4. The upper staff contains a sequence of eighth notes: D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4, D4. The lower staff contains a sequence of eighth notes: D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1, G1, F#1, E1, D1.

The second system of musical notation consists of two staves joined by a brace on the left. The upper staff is in treble clef and the lower staff is in bass clef. Both staves have a key signature of two sharps (F# and C#) and a time signature of 2/4. The upper staff contains a sequence of eighth notes: D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4, D4. The lower staff contains a sequence of eighth notes: D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1, G1, F#1, E1, D1.

The third system of musical notation consists of two staves joined by a brace on the left. The upper staff is in treble clef and the lower staff is in bass clef. Both staves have a key signature of two sharps (F# and C#) and a time signature of 2/4. The upper staff contains a sequence of eighth notes: D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4, D4. The lower staff contains a sequence of eighth notes: D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1, G1, F#1, E1, D1.

The fourth system of musical notation consists of two staves joined by a brace on the left. The upper staff is in treble clef and the lower staff is in bass clef. Both staves have a key signature of two sharps (F# and C#) and a time signature of 2/4. The upper staff contains a sequence of eighth notes: D4, E4, F#4, G4, A4, B4, C5, B4, A4, G4, F#4, E4, D4. The lower staff contains a sequence of eighth notes: D3, C3, B2, A2, G2, F#2, E2, D2, C2, B1, A1, G1, F#1, E1, D1.

**5074 PHILOSOPHY 303
PATIENTS, HEREDITY,
AND SOCIETY – WHOSE RIGHTS,
WHOSE RESPONSIBILITIES?**

(See interdepartmental listing)

**2904 PHILOSOPHY 307
MORALITY AND THE PROFIT
MOTIVE – THE DILEMMAS OF
SOCIAL RESPONSIBILITY IN
A BUSINESS-ORIENTED SOCIETY**

G. Arbaugh and a "business executive in residence" provided by the Institute of Life Insurance

Co-taught by a business executive-in-residence and a philosopher, this course will relate the realities of economic life to moral, religious and other human values. It will examine such issues as the moral justification of a capitalistic economy and of a variety of contemporary business practices and policies, and the possibilities of making large corporations responsible not only to stockholders, workers, consumers and other smaller publics but to society at large. The effects of modern technology and business on the overall quality of life will be discussed as well as the implications of contemporary challenges to the American economic system and of demands made on it in the name of social justice. Theories of moral and religious values will be examined insofar as these are assumed in the proposals of business leaders and social reformers.

There are no prerequisites for the course, but it is recommended for those with some previous acquaintance with philosophy, preparation in business, or a serious interest in the social impact of modern business. Those desiring admission after the formal closing of the class are encouraged to speak with Mr. Arbaugh. Students will be expected to read in the field of ethical theory and business ethics, to do a reasonable amount of writing and to participate regularly in class discussion.

BIBLIOGRAPHY: Available from the instructor.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE:
10:00 a.m. - 12 noon, Daily, A-210

**PHYSICAL EDUCATION
Activity Courses**

The following specifications apply to activity courses offered during the Interim:

1. Each course carries 1 semester hour of credit.
2. Satisfactory completion of each course will satisfy one-fourth of the core requirement in physical education.
3. One semester hour in physical education may be taken during the Interim in addition to a student's primary course.
4. A student must have approval from the instructor of his primary course before he/she can complete one semester hour in physical education during the Interim period.
5. Students may be released from a physical education course to participate in activities associated with his/her primary course. However, such excused absences must not total more than four class meetings. Students accumulating more than four excused absences will not receive credit for the physical education course.

**3404 PHYSICAL EDUCATION 202
INTERMEDIATE
AND ADVANCED GOLF**

R. Carlson

MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE:
1:00 p.m. - 3:00 p.m., MWF, OA-FH

**PHYSICAL EDUCATION 204
BOWLING**

3408 Section A

Staff

3414 Section B

R. Carlson

MAXIMUM ENROLLMENT: 24 in each section

MEETING TIME AND PLACE:
Section A – 8:00 a.m. - 9:15 a.m., Daily, University Center. Section B – 9:30 a.m. - 10:45 a.m., Daily, University Center

**3416 PHYSICAL EDUCATION 208
SKIING**

J. Thieman and Staff

COST IN ADDITION TO TUITION: \$35 course fee and lift fees. Students must provide own equipment.

MAXIMUM ENROLLMENT: 150
MEETING TIME AND PLACE:
Equipment and Conditioning Session – December 9, 7:00 p.m., A-101.
Class Sessions – January 4,6,11,13,18,20, 12:30 p.m. - 10:00 p.m. Slope Sessions – January 3,10,17,24, 7:00 a.m., M, A-101.

**3424 PHYSICAL EDUCATION 210
SLIMNASTICS**

Staff

MAXIMUM ENROLLMENT: 50
MEETING TIME AND PLACE:
1:00 p.m. - 2:15 p.m., OA-Balcony

**3428 PHYSICAL EDUCATION 212
INTERMEDIATE BADMINTON**

S. Adachi

MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE:
12:00 p.m. - 1:15 p.m., OA

**3436 PHYSICAL EDUCATION 225
CO-ED VOLLEYBALL**

Staff

MAXIMUM ENROLLMENT: 50
MEETING TIME AND PLACE:
7:30 a.m. - 8:45 a.m., OA

**3444 PHYSICAL EDUCATION 237
SKIN AND SCUBA DIVING**

Staff

COST IN ADDITION TO TUITION: (\$30 fee optional for NASDS Certification)

MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE:
7:30 p.m. - 10:30 p.m., W,R, Pool

**3448 PHYSICAL EDUCATION 245
SQUARE DANCING**

H. Adams

MAXIMUM ENROLLMENT: 48
MEETING TIME AND PLACE:
8:30 a.m. - 10:00 a.m., Memorial Gym

5094 PHYSICAL EDUCATION 304
**CHOREOGRAPHY
AND DANCE PRODUCTION**
(See interdepartmental listing)

5070 PHYSICAL EDUCATION 307
**EXPLORING
THE NORTHWEST'S WINTER**
(See interdepartmental listing)

3526 PHYSICAL EDUCATION 308
(2 semester hours)
SPORTS - MOTIVATION
F. Westering

Sports Motivation is a stimulating and interesting course specifically designed for today's athletic coach or anyone involved in athletics. Sports Motivation is based on many new developments in psychology and athletics. Many winning ideas and techniques are presented on motivating individuals and teams, assessing strengths and weaknesses of individual players and teams as well as methods of knowing and better understanding the attitudes and behavior of today's athlete. Sports Motivation is the key in assisting the athlete to strive for his or her maximum potential.

BIBLIOGRAPHY: To be distributed.

REQUIREMENT(S) FILLED: Two hours toward Interim requirement or two elective hours toward Physical Education Major

COST IN ADDITION TO TUITION: Small charge on hand-out materials

MAXIMUM ENROLLMENT: 30
MEETING TIME AND PLACE: 8:30 a.m. - 10:00 a.m., Daily for first two weeks, plus one week 7:00 p.m. - 10:00 p.m., O-105

3506 PHYSICAL EDUCATION 281
(2 semester hours)
**INJURY PREVENTION
AND THERAPEUTIC CARE**
G. Nicholson

Prevention, treatment and rehabilitation of all common injuries sustained in athletics; physical therapy by employment of electricity massage, exercise, light, ice and mechanical devices.

COST IN ADDITION TO TUITION: \$5
MAXIMUM ENROLLMENT: 25
MEETING TIME AND PLACE: 1:00 p.m. - 2:30 p.m., OA-102

3514 PHYSICAL EDUCATION 303
**LEADERSHIP
FOR OUTDOOR MINISTRIES**
W. Jarvis

Course designed to prepare leaders for camping, recreation, and retreat ministries. The course will include experience in small group communication, study of historical background of recreation and outdoor ministries, presentation of rationale for outdoor ministries and retreating, discussion of church's use of outdoor ministries and retreating, and practical experiences in planning and conducting a retreat ministry. The course will include lectures, discussion, and special projects related to specific problem areas. Students should plan for two weeks on campus and two weeks in a specific camp site.

REQUIREMENT(S) FILLED: Interim, Physical Education Major (Recreation option)

COST IN ADDITION TO TUITION: Transportation to a camp site is the responsibility of the student. It is anticipated that the camp agency where the student will be during the last week will assume the expense of lodging and meals during the time the student is at the camp site.

INSURANCE NEEDS: Insurance requirements for off-campus study are required.

MAXIMUM ENROLLMENT: 20
MEETING TIME AND PLACE: 1st week - 8:30 a.m. - 11:30 a.m. and 1:00 p.m. - 4:00 p.m., O-103. 2nd week - Limited class meetings, independent study. 3rd and 4th weeks - Off-campus study and involvement at a camp site.

3538 PHYSICAL EDUCATION 313
(2 semester hours)
**INTRO TO INTRA: WHY,
WHAT, WHEN AND WHERE
OF INTRAMURAL SPORTS**
C. Auping

This course is designed to study the formation, organization and administration of an intramural program. The philosophies that underlie an intramural program will be examined and discussed; designing an intramural program based on these philosophies will then be a major emphasis of the class. Such items as activities selection, administrative personnel, structuring tournaments, scheduling, program evaluation, and awards will be studied. Students will also participate in a practical situation designing and administering an intramural activity during the Interim.

BIBLIOGRAPHY: P. Mueller, *Intramurals: Programming and Administration*; selected articles from *JOHPER*; selected readings in Loy and Kenyan, eds., *Sport, Culture, and Society*.

REQUIREMENT(S) FILLED: 2 hours toward Interim requirement; upper division P.E. major elective. This course is designed for students in education or recreation.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 30
MEETING TIME AND PLACE: 1:00 p.m. - 2:30 p.m., A-105

Look unto the heavens, and see.—
Job 35:5



3546 PHYSICAL EDUCATION 334
(2 semester hours)

**SCIENTIFIC
BASIS FOR TRAINING**
G. Chase

The course is designed to help those interested in regular physical activity begin to establish a scientific basis for their training program. Exercise physiology will be presented in a manner directly related and applicable to planning "personalized fitness programs." Topics for consideration will include discussions of both the cellular and cardio-vascular basis to physical training factors specific to the development of muscular strength, nutrition and exercise, and diet and weight control. Methods of physical training and their scientific basis will be discussed.

MAXIMUM ENROLLMENT: 60
MEETING TIME AND PLACE:
10:30 a.m. - 12:00 noon, O-106

**3604 PHYSICAL EDUCATION 497A
CORRECTIVE
THERAPY INTERNSHIP**
D. Melena

This program includes lectures, laboratory experiences, and supervised clinical practices in corrective therapy at the Veterans Administration Hospital, American Lake, Tacoma, Washington. This program is primarily for students who desire to major in physical education with a corrective therapy emphasis.

PREREQUISITE: Approval of Director, School of Physical Education
MAXIMUM ENROLLMENT: 7
MEETING TIME AND PLACE:
8:00 a.m. - 1:00 p.m., Corrective Therapy Department, Veterans Administration Hospital, American Lake

**3608 PHYSICAL EDUCATION 497B
ORIENTATION TO THERAPY**
L. Souza

This program is intended to provide an orientation into various therapeutic programs. These programs include physical therapy, occupational therapy and corrective therapy. Students will participate in one week of general orientation to these therapeutic programs and three weeks of more direct involvement in a specific therapy.

PREREQUISITE: Approval of Director, School of Physical Education
MAXIMUM ENROLLMENT: 7

**3528 PHYSICS 305
OUR UNIVERSE:
INTRODUCTION TO ASTRONOMY**
T. Dittrich

An introduction to astronomy with a descriptive approach comprised of a variety of topics ranging from historical discoveries to current research areas. This course is designed for students with little or no background in science or mathematics, although it is available to students in these disciplines. Discussions will include the formation and evolution of the universe and solar system, structure of our galaxy, structure and evolution of stars, origin and abundance of the chemical elements, as well as special topics such as quasi-stellar objects, pulsars, neutron stars, and black holes. The course will be divided into approximately 25 lecture sessions and 12 hours in evening sessions devoted to observational activities and films. The films covering various astronomical subjects will be open to the general student body as seating allows.

Students will be expected to complete a short research paper covering one special topic in astronomy and participate in two hour exams.

REQUIREMENT(S) FILLED:
Interim
GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Possible additional charges for film rental will be needed, as well as transportation costs for a visit to a nearby observatory as later arrangements require.

MAXIMUM ENROLLMENT: 50
MEETING TIME AND PLACE:
9:00 a.m. - 10:00 a.m., Daily; 2:00 p.m. - 3:00 p.m., T,R, A-101

**3716 POLITICAL SCIENCE 464
INTERNSHIP
IN THE LEGISLATIVE PROCESS**
W. Spencer

Practical experience with the Washington State Legislature. Internship with a member of the Washington State Legislature; planned and supervised jointly by the legislator and a member of the Political Science faculty. (By permission of the department only.)

**3804 PSYCHOLOGY 300
PARAPSYCHOLOGY**
J.D. Nolph

Psychic and other "mysterious" phenomena will be explored through experimentation, lectures, and more direct experiences, such as guest demonstrations and field trips. The chief subject matter of the course is ESP, but other topics will range over a wide variety of paranormal phenomena, such as UFO's, psychic healing, plant emotions, and belief in Bigfoot. The intent of the course will be to critically examine the evidence for these phenomena, in the light of psychological principles and to attempt to arrive at a consistent set of explanations.

Students will be expected to produce a scholarly paper, based on their own investigations, and to participate regularly in class discussions and experiments.

BIBLIOGRAPHY: C.E.M. Hansel, *ESP: A Scientific Evaluation*; E.D. Mitchell, *Psychic Exploration*.

REQUIREMENT(S) FILLED:
Interim

PREREQUISITE: Psychology 101 is desirable, but not required. This course is not open to students who have taken Psychology 311 in the 1976 Interim.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 50
MEETING TIME AND PLACE:
9:00 a.m. - 11:30 a.m., M - F, X-203

**3808 PSYCHOLOGY 301
CROSS-CULTURAL
PSYCHOLOGY: A LIVING LAB
WITH HAWAII'S ETHNIC GROUPS**
(See off-campus listing)

**5090 PSYCHOLOGY 311
LEADERSHIP:
A GUIDE TO BEING
A STAR... OR... THEORY AND
PRACTICE OF LEADERSHIP
AND GROUP BEHAVIOR**

(See interdepartmental listing)

**3904 RELIGION 241
BIBLICAL LITERATURE:
OLD AND NEW TESTAMENTS
S. Govig**

Literary, historical and theological dimensions of the Bible including perspective on contemporary problems.

REQUIREMENT(S) FILLED:
General University Core Requirement
GRADING SYSTEM: A,B,C,D,E
MAXIMUM ENROLLMENT: 45
MEETING TIME AND PLACE:
9:00 a.m. - 11:00 a.m., 1N-100

**5062 RELIGION 307
RELIGION
THROUGH STORY AND ART**

(See interdepartmental listing)

**3908 RELIGION 309
ENTERING THE
PATH OF ENLIGHTENMENT: AN
INTRODUCTION TO BUDDHISM
P.O. Ingram**

The purpose of this course is to engage the student in a critical, rigorous dialogue with the Buddhist tradition. To implement this goal, the focus of this course will be primarily directed towards two concerns: 1) to acquaint the student with the variety of forms which Buddhist thought has assumed in its Indian, Chinese, and Japanese traditions; 2) to explore the possibilities and necessities of dialogue between Buddhist and Christian faith by asking such questions as what Buddhism can contribute to a Christian understanding of the world, what Christianity can contribute to the Buddhist vision of reality, and whether Buddhism and Christianity can jointly supply a vision of reality which is supportive of the quest for meaning in a "modern" world which just may not support *any* quest for meaning.

Consequently, as an "introduction," this course will presuppose a general lack of knowledge about Buddhism and some knowledge of Christian faith on the part of the student. For this reason, the lecture format will be the primary method by which the class will be taught, although in a way that will encourage questions and a good deal of class discussion.

BIBLIOGRAPHY: W. Theodore de Bary, ed., *The Buddhist Tradition in India, China, and Japan*; M.L. Mantics, *Entering the Path of Enlightenment*; P.A. Pardue, *Buddhism*; P. Tillich, *Christianity and the Encounter with the World Religions*.

REQUIREMENT(S) FILLED:
Interim
GRADING SYSTEM: H, P, No credit
MAXIMUM ENROLLMENT: 50
MEETING TIME AND PLACE:
1:00 p.m. - 3:00 p.m., A-204

**5082 RELIGION 312
SO YOU THINK YOU ARE HUMAN
(See interdepartmental listing)**

"...the abyss between macrocosmos and microcosmos -- the very big and the very little -- will surely be bridged, and the whole complex of the universe will resolve into a homogeneous fabric in which matter and energy are indistinguishable and all forms of motion from the slow wheeling of the galaxies to the wild flight of electrons become simply changes in the structure and concentration of the primordial field."

Lincoln Barnett

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*The Red -- Blaze -- is the Morning --
The Violet -- is Noon --
The Yellow -- Day -- is falling --
And after that -- is none --
But miles of Sparks -- at Evening --
Reveal the Width that burned --
The Territory Argent -- that
Never yet -- consumed --*

-- Emily Dickinson

**3916 RELIGION 314
THE QUEST FOR
THE HISTORICAL JESUS**
R. Gehrke

This course will review older and newer attempts to reconstruct a life of Jesus. Key issues in current discussions will be considered from historical, literary, and theological perspectives (e.g. Perennial Questions in the Study of the Gospels; Maximal and Minimal Lives of Jesus; Historical Uncertainty Accepted or Rejected; the Development of Modern Gospel-Research; Appropriate and Inappropriate Methods in the Quest; The Historical Reality of Jesus' Resurrection; Faith and History; The Person and Work of Christ in Recent Systematic Theology; Attainable and Unattainable Goals in the Quest). Practical exercises in the quest will be carried out by analyzing representative portions of the Gospels which deal with the ministry, death and resurrection of Jesus.

Besides engaging in a study of characteristic Gospel-material (e.g. Resurrection narratives, miracles, parables) as case studies, the student will read a standard text (like Reumann's *Jesus In The Church's Gospels*) and choose one aspect of the quest for special concentrated study, to be shared in class discussions. Off-campus activity: Visit to Jewish Synagogue.

BIBLIOGRAPHY: J. Reumann, *Jesus in the Church's Gospels*; G. Bornkamm, *Jesus of Nazareth*; N. Perrin, *What is Redaction Criticism?*; H. Anderson, ed., *Jesus (Great Lives Observed)*.

REQUIREMENT(S) FILLED:
Interim

PREREQUISITE: Not open for credit to students who have taken Religion 423: The Life and Teaching of Jesus.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 25

MEETING TIME AND PLACE:
9:00 a.m. - 11:00 a.m., A-221

**4404 SOCIOLOGY,
ANTHROPOLOGY
AND SOCIAL WELFARE 304
WOMEN IN SOCIETY**
P. Willis

This course will study processes continuing to support differentiation and discrimination against women. The rise and present organization of the social movement born from the necessity of eliminating discrimination against women will be documented. Pressures created by the women's movement on relationships between men and women, on families, and in the workplace will be discussed.

Also, comparative information on an experiment in sex equality will be examined to consider whether a sex egalitarian society is possible.

Topics considered will be: Origins and Development of the Women's Movement, Techniques of Social Change, Consequences and Direction of the Women's Movement, Institutions and Directions for Change, The Soviet Experiment.

The focus will be on what needs to be done and what is being done to achieve full equality for women in the areas of economic rights, legal status, and domestic relations.

Evaluation in the course will be based on completion of assigned readings for class and on small group discussions. There will be an essay exam over the materials and a paper critically analyzing one of the books in the area.

BIBLIOGRAPHY: J. Freeman, *The Politics of Women's Liberation*; *Women: A Feminist Perspective*; W. Mandel, *Soviet Women*; J. Hole and E. Levine, *Rebirth of Feminism*; Safilios-Rothschild, *Toward a Sociology of Women*; C.F. Epstein, *Women's Place*; J. Ladner, *Tomorrow's Tomorrow*.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 20

MEETING TIME AND PLACE:
1:00 p.m. - 4:00 p.m., X-203

THE STARS

*For we are the stars. For we sing.
For we sing with our light.
For we are birds made of fire.
For we spread our wings over the sky.
Our light is a voice.
We cut a road for the soul
for its journey through death.
For three of our number are hunters.
For these three hunt a bear.
For there never yet was a time
when these three didn't hunt.
For we face the hills with disdain.
This is the song of the stars.*

(Passamaquoddy Indian)

4408 SOCIOLOGY,
ANTHROPOLOGY
AND SOCIAL WELFARE 308
BEING GAY IN AMERICA: THE
HOMOSEXUAL ALTERNATIVE
W.D. Oberholtzer

Many believe that homosexuality is unusual. But if they mean by unusual that being gay is uncommon or rare, they are wrong. One out of ten adults you meet on the street is gay. Countless millions more have had homosexual experiences. Being primarily or exclusively gay is a minority experience, certainly, but it is not an uncommon experience. This does not change the fact that most Americans express public outrage, however. And it does not change the fact that gay people, as a result, often continue to be a silent and fearful minority. This course will investigate the social mythologies which inform what George Weinberg terms our "homophobia." It will also confront the effects of that homophobia in the lives of gay people themselves. Whether it be through research literature, through published first-person accounts, through actual interviews with gay people, through film presentations, or through field visits, the purpose will be to uncover a more accurate picture of the gay world. The primary focus will be sociological and will spotlight, therefore, the relationship, indeed conflict, between the wider society's norms and various gay lifestyles. The possibility will exist, nonetheless, to build bridges between these sociological analysis and other perspectives both inside and outside the social sciences.

The major academic requirement will be a position paper which interweaves the evidence from your reading and class experience with your own defensible and defended conclusions.

BIBLIOGRAPHY: S. Abbott and B. Love, *Sappho Was a Right-On Woman*; D. Altman, *Homosexual*; P. Fisher, *The Gay Mystique*; M. Hoffman, *The Gay World*; D. Martin and P. Lyon, *Lesbian/Woman*; J. Murphy, *Homosexual Liberation*; D. Oberholtzer, ed., *Is Gay Good?*; G. Weinberg, *Society and the Healthy Homosexual*; M. Weinberg and C. Williams, *Male Homosexuals*; R. Weltge, ed., *The Same Sex*.

REQUIREMENT(S) FILLED:
Interim

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: Student-shared minor fees for transportation

MAXIMUM ENROLLMENT: 15
MEETING TIME AND PLACE:
1:00 p.m. - 4:00 p.m., MWF, L-106

4416 SOCIOLOGY,
ANTHROPOLOGY
AND SOCIAL WELFARE 309
A CROSS-CULTURAL
LOOK AT DEVIANCE
A.M. Klein

This course will present a new subject in anthropology: the world of seediness, those cultures which we often dismiss as filthy and corrupt because they deviate from our middle-class standards of cleanliness and morality. From certain angles, as novelists like Dostoevski and Faulkner have helped us see, "low life" is sometimes richer in humanity and spirit than we normally think.

The core of this course in strangeness is the paradox of value judgment. When one looks out from within a "deviant" culture, what once seemed merely perverted becomes intelligible and what once seemed natural appears bizarre. The course will include an "inside" look at disreputable phenomena like profanity and religious cults, and an "outside" look at our usual assumptions about politics, science and sexuality.

Students should thus learn more about the diverse world in which we live and about the source and soundness of their own values.

BIBLIOGRAPHY: J. Rubin, *Do It!*; E. Carpenter, *Oh! What A Blow That Phantom Gave Me!*; M. Harris, *Cows, Pigs, Wars, and Witches: The Riddles of Culture*; selections from the *Phenomenology of the Mind* and other readings.

REQUIREMENT(S) FILLED:
Interim

PREREQUISITE: Must be member of the Human Race.

GRADING SYSTEM: H, P, No credit

COST IN ADDITION TO TUITION: \$15 for film rental costs

MAXIMUM ENROLLMENT: 50
MEETING TIME AND PLACE:
6:30 p.m. - 9:30 p.m., MTW, X-203

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*"Arcturus" is his other name -
I'd rather call him "Star."
It's so unkind of Science
To go and interfere!
I slew a worm the other day -
A "Savan" passing by
Murmured "Resurgam" -
"Centipede"!
"Oh Lord - how frail are we"!
I pull a flower from the woods -
A monster with a glass
Computes the stamens in a breath -
And has her in a "class"!
Whereas I took the Butterfly
Aforetime in my hat -
He sits erect in "Cabinets" -
The Clover bells forgot.
What once was "Heaven"
Is "Zenith" now -
Where I proposed to go
When Time's brief masquerade was
done
Is mapped and charted too.
What if the poles sh'd frisk about
And stand upon their heads!
I hope I'm ready for "the worst" -
Whatever prank betides!
Perhaps the "Kingdom of Heaven's"
changed -
I hope the "Children" there
Won't be "new fashioned" when I
come -
And laugh at me - and stare -
I hope the Father in the skies
Will lift his little girl -
Old fashioned - naughty -
everything -
Over the stile of "Pearl".*

-- Emily Dickinson

4424 SOCIOLOGY,
ANTHROPOLOGY
AND SOCIAL WELFARE 475

4428 SOCIOLOGY,
ANTHROPOLOGY
AND SOCIAL WELFARE 476

FIELD EXPERIENCE

V. Hanson

Supervised field work within an agency or institution; application/integration of knowledge, theory and understanding development of techniques common to the social welfare field.

REQUIREMENT(S) FILLED:
Social Welfare major

PREREQUISITE: Permission of the instructor and Independent Study Card required. This course is designed for majors or advanced students.

GRADING SYSTEM: H, P, No credit

MAXIMUM ENROLLMENT: 30

4504 STATISTICS 331
INTRODUCTORY STATISTICS

M. Miller

Here is your chance to learn how to tell if that person is significantly different, or what that confidence level is really about. Yes, we will even discuss sensitivity analysis.

Hey wait! This course is an introduction to statistics and not an introduction to interpersonal relations. It is every bit as fun and exciting and undoubtedly even more useful than what you were just thinking about. The course is taught with only elementary algebra as the assumed mathematics background. But it won't necessarily be a drag just because you have had some calculus. There are no field trips, but the instructor is more than happy to join you on a cross-country ski trip on the weekend, particularly if you drive.

Have you caught on yet? I'm trying to fit into the theme "Galaxies" and hence give you a "round about" description of Statistics 331. But if you prefer it straight from the approved catalog, 331 *Introductory Statistics*: "Descriptive statistics: measures of central tendency and dispersion. Inferential statistics: generalizations about populations from samples by parametric and non-parametric techniques. Methods covered will include estimation, hypothesis-testing, simple correlation analysis, linear regression and chi-square analysis."

BIBLIOGRAPHY: J. Freund, *Modern Elementary Statistics*.

REQUIREMENT(S) FILLED:
Statistics requirement in School of Business, Economics, Psychology, etc., plus part of Option III in College of Arts and Sciences foreign language requirement.

PREREQUISITE: High school algebra within past 5 years or discussion with the instructor.

MAXIMUM ENROLLMENT: 35

MEETING TIME AND PLACE:
10:30 a.m. - 12:30 p.m., and 3:30 p.m. - 4:30 p.m. as optional discussion session, L-100

Dark nebulosities in Taurus.



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CODE: I — Interim
 ■ — Core Requirement
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VWXYZ

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MUSIC OF A WINTER NIGHT

*Wind of the stars, bright
Turbulence of time
Sings to my astonished eyes
With soundless chime.*

*Bound to itself the clock
Turns, wheel on wheel,
Notch to notch, til grey dust clogs
And oils congeal.*

*But these blue flames of ice
Rush out with steady pace,
Til striking here, we feel their pulse
And find, through rhythm, place.*

– Paul Benton

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