

# SUMMER PROGRAMS '89

THE UNIVERSITY OF MARYLAND  
COLLEGE PARK

## COLLEGE PARK CAMPUS ADMINISTRATION

### Acting President

William E. Kirwan

A.B., University of Kentucky, 1960;  
M.S., Rutgers University, 1962;  
Ph.D., Rutgers University, 1964.

### Acting Vice President for Academic Affairs and Provost

Irwin L. Goldstein

B.B.A., City College of New York, 1959;  
M.A., University of Maryland at College Park, 1962;  
Ph.D., University of Maryland at College Park, 1964.

### Vice President for Administrative Affairs

Charles F. Sturtz

B.A., Wittenberg University, 1958;  
M.P.A. Wayne State University, 1961.

### Vice President for Student Affairs

William L. Thomas, Jr.

B.S., University of Tennessee, 1955;  
M.S., University of Tennessee, 1965;  
Ph.D., Michigan State University, 1970.

### Vice President for Institutional Advancement

A. H. Edwards

B.S., Northwest Missouri State University, 1957  
M.S., Northwest Missouri State University, 1971  
Ph.D., Clayton University, St. Louis, 1975

## SUMMER PROGRAMS ADMINISTRATION

### Administrative Dean for Summer Programs

Melvin Bernstein

B.A., Southwestern at Memphis, 1947;  
B.Mus., Southwestern at Memphis, 1948;  
M.Mus., University of Michigan, 1949;  
M.A., University of North Carolina, 1954;  
Ph.D., University of North Carolina, 1964.

### Director of Cultural Programs

George A. Moquin

B.A., University of Maryland, 1971.

### Assistant Director of Cultural Programs

Donald Reinhold

B.M. Bucknell University, 1974  
M.A. University of North Carolina at Chapel Hill, 1980

### Director of Finance

David N. Catania

B.S., University of Maryland, 1978.

### Director of Intramural Sports and Recreation

Nick Kovalakides

B.S., University of Maryland, 1961;  
M.A., University of Maryland, 1968.

## CENTRAL ADMINISTRATION OF THE UNIVERSITY

### Chancellor

John S. Toll

B.S., Yale University, 1944;  
M.A., Princeton University, 1948;  
Ph.D., Princeton University, 1952.

### Deputy Chacellor

Jean E. Spencer

B.A., University of Maryland, 1955  
M.A., University of Maryland, 1961  
Ph.D., University of Maryland, 1965

### Vice Chancellor for Academic Affairs

David S. Sparks

B.S., Grinnell College, 1944  
M.A., Univ. of Chicago, 1945  
Ph.D., Univ. of Chicago, 1951

### Vice Chancellor for Agricultural

Affairs and Dean

Raymond J. Miller

B.S., University of Alberta, 1957  
M.S., Wash. State University, 1960  
Ph.D., Purdue University, 1962

### Vice Chancellor for General Administration

Donald L. Myers

B.A., Pennsylvania State Univ., 1951  
B.S., N.C. State University, 1961  
M.B.A., U. of Southern California, 1966

### Vice Chancellor for Governmental Relations

Patricia S. Florestano

B.S., University of Maryland, 1958  
M.A., University of Maryland, 1970  
Ph.D., University of Maryland, 1974

### Vice Chancellor for Policy & Planning

Edgar B. Schick

A.B., Muhlenberg College, 1955  
M.A., Rutgers University, 1962  
Ph.D., Rutgers University, 1965

### Vice Chancellor for University Relations

Robert G. Smith

B.S., State University of New York at Geneseo, 1952;  
M.A., Ohio University, 1956.

## BOARD OF REGENTS

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Iлона M. Hogan

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### Assistant Secretary

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## UNIVERSITY POLICY STATEMENTS

The provisions of this publication are not to be regarded as a contract between the student and the University of Maryland. Changes are effected from time to time in the general regulations and in the academic requirements. There are established procedures for making changes, procedures which protect the institution's integrity and the individual student's interest and welfare. A curriculum or graduation requirement, when altered, is not made retroactive unless the alteration is to the student's advantage and can be accommodated within the span of years normally required for graduation. When the actions of a student are judged by competent authority to be detrimental to the interests of the university community, that person may be required to withdraw from the university.

The University of Maryland, in all its branches and divisions, subscribes to a policy of equal educational and employment opportunity for people of every race, creed, ethnic origin, and sex.

It is university policy that smoking in classrooms is prohibited. Any student has the right to remind the instructor of this policy throughout the duration of the class.

The University of Maryland is an equal opportunity institution with respect to both education and employment. The University's policies, programs and activities are in conformance with pertinent federal and state laws and regulations on nondiscrimination regarding race, color, religion, age, national origin, sex, and handicap. Inquiries regarding compliance with Title VI of the Civil Rights Act of 1964, as amended, Title IX of the 1972 Education Amendments, Section 504 of the Rehabilitation Act of 1973, or related legal requirements should be directed to the appropriate individual designated below.

Director of the Office of Human Relations  
1107 Hornhake Library  
University of Maryland, College Park  
College Park, Maryland, 20742

Campus Coordinator for S504 of the  
Rehabilitation Act of 1973  
Room 2101, Main Administration Building  
University of Maryland, College Park  
College Park, Maryland 20742

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The University reserves the right to change, eliminate, or modify course offerings and programs when in the judgements of the University authorities, circumstances make such action necessary.

**SUMMER SESSIONS  
UNIVERSITY OF MARYLAND  
COLLEGE PARK CAMPUS**

**Two Six Week Sessions**

SESSION I June 5 - July 14  
SESSION II July 17 - August 25

**Summer Sessions 1989**

The University of Maryland at College Park offers a richly varied summer educational program to its continuing degree students and to qualified non-degree students for both graduate and undergraduate study. Students may select from over 1,000 courses representing 75 academic disciplines and a number of workshops and institutes designed to meet specific needs within disciplines. The summer sessions offer opportunities for degree students to accelerate completion of degrees, to make up deficiencies and requirements, and to broaden programs with studies which otherwise could not be fitted into their academic schedules.

The Summer Programs provide opportunities for non-degree students who may wish to test their abilities to pursue college level study or who may wish to indulge special academic interests. The professional or post-graduate student will find courses and workshops which permit updating of knowledge and techniques in specific disciplines within convenient schedules.

The summer faculty consists of distinguished members of the College Park faculty and outstanding visiting lecturers. In addition to academic studies the Summer Programs seek to provide a total university environment through varied and exciting recreational and cultural programs.

**CAMPUS HOLIDAYS**

**Offices will be closed and there will be no classes.**

**Tuesday July 4 Independence Day**

**ON-CAMPUS HOUSING SCHEDULE**

March 13	Monday	Summer 1989 <i>Residence Halls Agreement</i> available at Department of Resident Life, 2100 Annapolis Hall (also at center of this catalog). <b>Submission of housing Agreement by lottery deadline of April 28 is advised for higher priority for your assignment preferences.</b>
May 15	Monday	Deadline for release from <i>Summer 1989 Residence Halls Agreement</i> for Session I without financial obligation; written cancellation must be received by Resident Life, 2100 Annapolis Hall.
June 4	Sunday	Residence halls open 12 noon for Session I only residents and for Session I and II residents to claim room assignments.
June 5	Monday	Room assignments in residence halls not claimed by 12 noon are forfeited. "No-show" cancellation charge equal to three weeks' housing cost (\$205.68) is assessed.
June 26	Monday	Deadline for release from <i>Summer 1989 Residence Hall Agreement</i> for Session II without financial obligation; written cancellation must be received by Resident Life, 2100 Annapolis Hall.
July 14	Friday	Residents not remaining in residence halls for Summer Session II must vacate by 7pm.
July 16	Sunday	Residence halls open 12 noon for Summer Session II only new students.
July 17	Monday	Room assignments in residence halls not claimed by 12 noon forfeited. "No-show" cancellation charge equal to three weeks' housing cost (\$205.68) is assessed.
August 25	Friday	Residence halls close 7pm. All residents must vacate their summer assignments. No on-campus housing available after 7pm, except as Fall Semester campus residents have secured "interim" housing privileges.





## TUITION AND FEES

### ALL STUDENTS

Registration Fee per Session	5.00
Recreation Fee per Session	8.00
Student Health Fee per Session	8.00
Auxiliary Facilities Fee Per Session	8.00
Summer Vehicle Registration Fee, per vehicle (not charged if vehicle was registered for Fall or Spring Semester) Resident Student	17.00
Commuter Student	9.00
Each additional vehicle	15.00

### UNDERGRADUATE STUDENTS

Tuition per Credit Hour	99.00
Non-resident Fee per Session (must be paid by all students who are not residents of Maryland)	20.00
Application Fee (New Students)	25.00

### GRADUATE STUDENTS

Application Fee (Every student must be admitted)	25.00
Tuition per Credit Hour:	
Resident Student	117.00
Non-resident Student	207.00

### Continuous Registration Fee

(Doctoral Candidate)	10.00
ON-CAMPUS HOUSING	
Per Six-Week Session	411.36

### OTHER FEES

Graduation Application Fee for Bachelor's Degree	15.00
Graduation Application Fee for Master's Degree	25.00
Graduation Application Fee for Doctor's Degree	25.00
Late Registration Fee	20.00
Service Charge for Dishonored Check (depending on amount of check) up to	50.00

Fees for auditors and courses taken for audit are the same as those charged for courses taken for credit at both undergraduate and graduate levels. Fees for altering academic programs are discussed in the section on Admissions and Registrations. **Although changes in fees and charges ordinarily will be announced in advance, the University reserves the right to make such changes without prior announcement.**



## DETERMINATION OF IN-STATE STATUS FOR ADMISSION AND TUITION

The deadline for meeting all requirements for an in-state status and for submitting all documents for reclassification is the last day of late registration of the semester for which the student wishes to be classified as an in-state student.

### DEADLINES

Summer Session I, 1988	June 9, 1988
Summer Session II, 1988	July 21, 1988

For further information:

Campus Classification Office  
University of Maryland  
College Park, Maryland 20742  
(301) 454-3977

### Payment of Fees

Returning students will not be permitted to complete registration until all financial obligations to the University including library fines, parking violation assessments and other penalty fees and service charges are paid in full.

Tuition and fees for summer school courses are due and payable in fall at the time of registration. Students who fail to settle their account by 3:00 p.m. of the working day after they register will have their registration cancelled. The University sends bills to students for other financial obligations, i.e., parking tickets, library fines, etc., on a regular basis. A copy of the bill may be obtained by coming to Room 1103, Lee Building, Monday through Friday, from 8:30 a.m. to 4:15 p.m.

All checks or money orders should be made payable to the University of Maryland for the exact amount due. The student's social security number must be written on the check. In cases where the University has awarded a grant, scholarship, or workshop, the appropriate amount will be deducted on the bill, mailed approximately one month after the start of the semester.

Students will be severed from University services for delinquent indebtedness to the University which occurs or is discovered during a semester. In the event that severance occurs, the individual may make payment during the semester in which services were severed and all these services except housing will be restored. Students removed from housing because of delinquent indebtedness will be placed at the bottom of the waiting list after the financial obligation is satisfied and after reapplying for housing. Students who are severed from University services and who fail to pay the indebtedness during the semester in which severance occurs will be ineligible to pre-register or register for subsequent semesters until the debt is cleared. In the event of actual registration in a subsequent semester by a severed student who had not settled the student account prior to that semester, such registration will be cancelled and no credit will be earned for the semester.

Severance Fee: 25.00. Students who fail to pay the balance due on their accounts who have their University services severed. In order to have the services restored, students will be required to pay the total amount due plus the \$25.00 Severance Fee.

In accordance with State law, the accounts of delinquent and severed students are referred to the State Central Collections Unit in Baltimore for collection and legal follow-up. Costs incurred in collecting delinquent accounts are charged to the student. Collection costs are normally 15% plus any attorney and/or court fees. Changes in Maryland law allow the central collection unit to block issuance of Maryland state income tax refunds for individuals with delinquent accounts. In addition, the State of Maryland has implemented a system whereby unpaid parking tickets issued on state property may result in the withholding of motor vehicle tags until such time as the tickets are paid.

No degree will be conferred, no grade issued, nor any diploma, certificate, or transcript of record issued to a student who has not made satisfactory settlement of his or her account.



## DIRECTORY OF INFORMATION SERVICES

General Information	454-3311
Summer Programs Office	454-3347
Admissions	
Office of Undergraduate Admissions	
Mitchell Building	454-5550
Graduate Admissions	
Lee Building	454-3141
Graduate Records	454-5428
Housing	
Off-Campus	454-3645
On-Campus	454-2711
Registration	
North Administration Bldg	454-5559
Undergraduate Studies	454-2530
College of Agriculture	454-3708
College of Arts and Humanities	454-2737
College of Behavioral and Social Sciences	454-2301
College of Business and Management	454-4314
College of Computer, Mathematical and Physical Sciences	454-4596
College of Education	454-2011
College of Engineering	454-2421
College of Human Ecology	454-2136
College of Journalism	454-2228
College of Library and Information Services	454-3016
College of Life Sciences	454-5257
College of Physical Education, Recreation and Health	454-5616
Computer Science Center	454-2002
Institute of Criminal Justice and Criminology	454-4538
Institute of Urban Studies	454-5718
School of Architecture	454-3427
University College	985-7000

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## SUMMER SESSIONS IMPORTANT DATES

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### SUMMER SESSION I

March 27 - May 22	Mail-in Registration; Requests processed daily
March 27 - June 2	Walk-in Registration —9–11:45 am; 1–3 pm. Room 1130 Mitchell Building
June 5	Classes begin.
June 5 - June 9	Late Registration (with a \$20.00 Late Fee). Room 1130 Mitchell Building

### SUMMER SESSION II

March 27 - July 5	Mail-in Registration; Requests processed daily
March 27 - July 14	Walk-in Registration —9–11:45 am; 1–3pm. Room 1130 Mitchell Building
July 17	Classes begin.
July 17 - July 21	Late Registration (with a \$20.00 Late Fee) Room 1130 Mitchell Building

NOTE: The University will be closed May 29 for Memorial Day, July 4 for Independence Day.

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## SUMMARY OF DEADLINES FOR SUMMER 1989

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Type of Change	Last Day to Process Change	
	SS I	SS II
Add a course	June 9	July 21
Apply for August 1989 Graduation	July 21	July 21
Cancel Registration with 100% refund	June 2	July 14
Change Credit Level	June 9	July 21
Drop a course - Undergraduate Student without "W" Mark	June 9	July 21
Drop a course - Undergraduate Student with "W" Mark	June 29	August 10
Drop a course - Graduate Student (Graduate Student does not receive a "W" mark.)	June 29	August 10
Drop a course with a \$2.00 fee	June 29	August 10
Drop a course with (100%) refund	June 2	July 14
Drop a course with (70%) refund	June 9	July 21
Change Grading Option	June 9	July 21
Process a Late Registration	June 9	July 21
Change Sections (Department Approval Required)	July 14	August 25
Withdraw from all classes with 100% refund	June 2	July 14
Withdraw from all classes with 70% refund	June 9	July 21
Withdraw from all classes with 50% refund	June 16	July 28
Withdraw from all classes with 20% refund	June 23	August 4
Withdraw from all classes with 0% refund	July 14	August 25

**NOTE:**

Registration and Schedule Adjustment transactions are complete when payment has been made and the Registration Forms have been validated by the Registrations Office.

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## SUMMER 1989 REGISTRATION PROCEDURES

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### Note: LOCATION FOR REGISTRATION

All registration, drop, add, and section change activity will occur in the Registrations Office, Room 1130, Mitchell Building. Payment must be made in the Bursar's Office, Lee Building, at the time of registration.

Instructions are outlined below for both Mail-In and Walk-In registration methods.

Students are eligible to register if they were enrolled Spring 1989 or have processed admission or readmission forms:

Students registered at the College Park Campus for the Spring 1989 Semester should follow the registration procedures outlined below.

Former students who were **not registered for the Spring 1989 Semester** must follow the readmission/reinstatement information on page 8 of the catalog before registering.

New students must read the admissions information on page 8 and 9 of the catalog before registering.

**Payments must accompany all mail-in registrations.**

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### A. WALK-IN REGISTRATION

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#### WHO?

Any student eligible to attend the University of Maryland, College Park campus except: *Students owing an outstanding debt to the University.*

#### WHERE?

Registrations Office  
Room 1130  
Mitchell Building

#### WHEN?

**Summer Session I**  
March 27 - June 2; 9:00-11:45 a.m.  
1:00-3:00 p.m.

**Summer Session II**  
March 27 - July 14; 9:00-11:45 a.m.  
1:00-3:00 p.m.

#### HOW?

1. Go to Room 1130, Mitchell Building, where you will receive confirmation of course availability. If admission or readmission action is necessary, you will be referred to the proper office.
2. **BY 3 PM OF THE NEXT WORKING DAY** pay your bill at:  
The Bursar's Office, Room 1103, Lee Building, between 9 a.m. and 3 p.m.  
Obtain a copy of your current Student Account Receivable (SAR Account) and pay this amount plus your summer school bill at the Cashier's Office.  
NOTE: If you have financial aid, go to the Financial Aid Office, Mitchell Building, 2nd floor Counter, prior to going to the Bursar's Office.
3. Once your bill is paid at the Cashier's Office, you will receive course verification and a validated ID for the summer.

**STUDENTS WHO DO NOT GO TO THE BURSAR'S OFFICE BY 3 PM OF THE NEXT WORKING DAY AND PAY THEIR BILL WILL HAVE COURSE REQUESTS CANCELED. PAYMENTS MADE ON OR AFTER JUNE 5 FOR SSI AND JULY 17 FOR SSI WILL HAVE A \$20 LATE FEE ASSESSED.**

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### B. MAIL-IN REGISTRATION

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#### WHO?

Any student eligible to attend the University of Maryland, College Park Campus except: *Students owing an outstanding debt to the University.*

#### WHEN?

Must be postmarked from:  
March 27 - May 22 for Summer Session I.  
March 27 - July 5 for Summer Session II.

#### WHERE?

All materials should be returned to:  
Office of the Bursar, Lee Building  
University of Maryland  
College Park, Maryland 20742

A return envelope is provided in the center of this catalog for your convenience.

#### HOW?

1. Complete the Schedule Request and Estimated Bill Form in the center of this catalog for the session you wish to attend.  
**USE ONE FORM FOR EACH SESSION.**
2. Return the following in the enclosed envelope:
  - a. Schedule Request and Estimated Bill Form(s)
  - b. Admission Application, if necessary
  - c. Check made payable to the UNIVERSITY OF MARYLAND. Write your SOCIAL SECURITY NUMBER on the check.
3. Confirmation of your requested schedule and a Summer ID card will be sent to you by mail. If confirmation is not received within 2 weeks, please call the Office of Registrations, 454-5225, for immediate assistance.
4. The Office of the Bursar will notify you of any incorrect payments or adjustments to your account, such as additional charges, refunds, and credits.
5. Any outstanding debt to the University will be deducted from payment submitted and the remainder applied to your summer school charges.

**PLEASE NOTE:** Registration material received by mail will be returned to the sender if information is incomplete, and your registration will be voided.

## LATE REGISTRATION

**SUMMER SESSION I**—A late fee of \$20.00 is assessed for registration on or after the first day of instruction, June 5. Special permission of the dean must be obtained prior to registration after June 9.

**SUMMER SESSION II**—A late fee of \$20.00 is assessed for registration on or after the first day of instruction, July 17. Special permission of the dean must be obtained prior to registration after July 21.

### PROCEDURES:

1. Go to Room 1130, Mitchell Building, where you will receive confirmation of course availability. If admission or readmission action is necessary, you will be referred to the proper office.
2. BY 3 P.M. OF THE NEXT WORKING DAY pay your bill at:  
The Bursar's Office, Room 1103, Lee Building, between 9 a.m. and 3 p.m. Obtain a copy of your current Student Account Receivable (SAR Account) and pay this amount plus your summer school bill at the Cashier's Office.

**NOTE:** If you have financial aid, go to the Financial Aid Office, Mitchell Building, 2nd floor counter, prior to going to the Bursar's Office.

3. Once your bill is paid at the Cashier's Office, you will receive course verification and a validated ID for the summer.

**STUDENTS WHO DO NOT GO TO THE BURSAR'S OFFICE BY 3 PM OF THE NEXT WORKING DAY AND PAY THEIR BILL WILL HAVE COURSE REQUESTS CANCELLED. PAYMENTS MADE ON OR AFTER JUNE 5 FOR SUMMER SESSION I OR JULY 17 FOR SUMMER SESSION II WILL HAVE A \$20 LATE FEE ASSESSED.**

**COURSE REGISTRATION IS ONLY COMPLETE AND OFFICIAL WHEN ALL FEES ARE PAID.**

## NONSTANDARD DATE COURSE REGISTRATION

Courses which vary in beginning dates from the starting dates for each Summer Session will be available for registration at the normal registration period for each session. Additionally, registration will be available on the first day of each class or an alternate day if requested by the department or instructor. Courses which vary in length from the regular Summer Session will have late registration, schedule adjustment, and other dates adjusted proportionally to the length of the course. In these instances students are urged to contact the department or instructor for information. Grades for nonstandard date courses ending after the regular session in which they begin will be posted after the regular session grade reports are mailed. Students desiring official notification of grades in these courses should request an unofficial transcript approximately two (2) weeks after the course ends. Instructors of these courses will receive information on various deadlines. Please check with the department in late spring 1989 concerning specific questions.

## CANCELLATION OF SUMMER SCHOOL REGISTRATION

Students who register and later decide not to attend the University must **cancel their registration prior to the first day of classes**. Failure to cancel registration will result in financial obligation to the University even though the student does not attend class. Cancellation requests must be received in writing prior to the first day of classes. All requests should be sent by **Registered Mail** to:

OFFICE OF REGISTRATIONS  
Rm 1130, MITCHELL BLDG.  
UNIVERSITY OF MARYLAND  
COLLEGE PARK, MD. 20742

## WITHDRAWAL FROM SUMMER SCHOOL

Students who wish to terminate their registration on or after the **first** day of classes must **WITHDRAW**. This applies to all students regardless of the number of courses or credits for which they are enrolled.

1. Students withdrawing from a Summer Session must complete a Withdrawal Form which may be obtained at Room 1101, Mitchell Building.
2. Withdrawal becomes effective on the date the form is filed with the Records Office.
3. Registration, Recreation and Health Fees are not refundable.

The chart below indicates the percentage of tuition which will be credited upon withdrawal.

<b>SUMMER SESSION I</b>	
June 5-June 9	70%
June 12-16	50%
June 19-23	20%
July 14	00%
<b>SUMMER SESSION II</b>	
July 17-21	70%
July 24-28	50%
July 31-Aug. 4	20%
Aug. 25	00%

Withdrawals from workshops or institutes must be effected prior to the first day of the workshop in order to receive a refund. After a workshop has begun no refund will be granted.

**WITHDRAWAL FROM SUMMER SESSIONS DOES NOT AFFECT REGISTRATIONS FOR FALL SEMESTER 1989 COURSES**

## REQUESTING REFUND OF TUITION

To obtain a refund of a credit balance, a **STUDENT** must request the refund in writing. This can be done by (1) addressing a letter to: Office of the Bursar, University of Maryland, College Park, MD 20742, or (2) completing a request for refund form available at the Student counter, 1103 Lee Building or the Records or Current Registrations Office, first floor, Mitchell Building. **NO CREDIT BALANCE IS AUTOMATICALLY REFUNDED**. Approximately 6 to 8 weeks is required from the time a credit balance appears on the account and a refund request is received until a check is mailed from the state Treasurer's Office in Annapolis. **THE CHECK WILL BE MADE PAYABLE TO THE STUDENT** and mailed to the address requested by the student on the refund form. Refund checks will not be mailed to a campus address.

**CHANGE OF ADDRESS PROCEDURE** Changes in either local mailing address or permanent address can be processed **AT ANYTIME DURING THE SEMESTER IN WHICH THEY OCCUR**. Address changes are posted to the computer by the Office of the Bursar. Address Change Forms are available at the following places:

1. Office of the Bursar, Address Unit, Lee Building, Room 1121 or 1103, 8:30 a.m. to 4:15p.m., Monday-Friday.
2. Registrations Counter, Mitchell Building, First Floor Lobby, 8:30 a.m.-4:30 p.m., Monday-Friday.
3. Deans' Offices, 8:30 a.m.-4:30 p.m., Monday-Friday.
4. STAR CENTER, Student Union, Room 1122, 9:00 a.m.-4:00 p.m., Monday-Friday.

Since many University communications to students are handled through the mail, it is imperative that accurate, and up-to-date addresses be maintained throughout the enrollment period. During the academic year the permanent address for currently registered students will be used for grade reports, combined registration schedules and bills, and other billings. The local address on file for currently registered students will be used for all other mailings. The permanent address on file for students not currently registered will be used for all mailings. Any student wishing his/her address to be kept confidential should contact the Registration Counter.





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Orchestral  
Institute*  
JUNE 9 - JULY 1, 1989

*An intensive three week training experience in orchestral musicianship*

SEE PAGE 27 FOR DETAILS

## UNDERGRADUATE ADMISSION INFORMATION

The following is designed to help you, the prospective summer school student, to determine how or whether to use the admission application found in this catalog. *Registration information is on pages 4-6. "Summer Only" admission and registration forms are in center section form booklet.*

### IF YOU ARE NEW TO UMCP... AND ARE A:

#### 1. VISITOR from another college or university including UMBC and UMES:

### ADMISSION REQUIREMENTS AND PROCEDURES

- Complete enclosed undergraduate application
- Must be in good standing at parent institution
- If you are on an F-1 visa a letter of permission is required
- A non-refundable \$25 application fee is required if you have never enrolled at any campus of the University of Maryland
- No transcripts required
- It is your responsibility to verify acceptability by parent institution of credits earned at UMCP

#### 2. UNIVERSITY COLLEGE student:

- Must present letter of permission from UMUC to register
- No application required
- No transcripts required

#### 3. GRADUATE FROM ANOTHER COLLEGE OR UNIVERSITY:

- Complete enclosed undergraduate application
- A non-refundable \$25 application fee is required if you have never enrolled at any campus of the University of Maryland
- No transcripts are required
- \* See Graduate Study if wishing to attempt graduate level (500-above) courses

#### 4. TEACHER SEEKING CERTIFICATION FOR PROFESSIONAL ADVANCEMENT including those who have been admitted for a previous summer term as "term only" and those who have never been enrolled at UMCP:

- Same as in number 3 above.

#### 5. HIGH SCHOOL GRADUATE:

- Must have a minimum of a "C" average in academic subjects
- Complete enclosed undergraduate application
- A non-refundable \$25 application fee is required if you have never enrolled at any campus of the University of Maryland
- No transcripts required
- \* Full admission is prerequisite for Fall 1989 enrollment. Please visit the Office of Undergraduate Admission, Lower Level, Mitchell Building.

#### 6. HIGH SCHOOL STUDENT ENTERING YOUR JUNIOR OR SENIOR YEAR:

- Must have a minimum of a "B" average
- Complete regular admission application obtainable from Office of Undergraduate Admissions, Lower Level, Mitchell Building.
- High School transcripts required
- A non-refundable \$25 application fee is required if you have never enrolled at any campus of the University of Maryland.

#### 7. NEWLY ADMITTED FALL 1989 STUDENT:

- no application required
- must present letter of admission for Fall, 1989

### IF YOU ARE A UMCP STUDENT OR A FORMER UMCP STUDENT...

#### AND:

1. Attended UMCP previously as a "Term Only" registrant...  
Must present letter of readmission to register.
2. You were *not* enrolled the Spring 1989 semester and you are in good academic standing, or on academic probation and did not withdraw your last semester...  
Must present letter of readmission to register.
3. Attended UMCP this past Spring 1989 semester and you were *not* academically dismissed (this includes students who graduated May 1989)  
Must present ID card to register.
4. Attended UMCP Spring 1989 semester and either *withdrew* or you were *academically dismissed at the end of Spring 1989*  
Must present ID card to register
5. Were dismissed or withdrew from UMCP prior to the Spring 1989 semester (and did not attend Spring 1989)

### ADMISSION REQUIREMENTS AND PROCEDURES

- Complete enclosed undergraduate application
- Complete enclosed undergraduate application
- No application required for Summer Session registration
- No application required for Summer Session registration
- \* However, reinstatement is a prerequisite for Fall 1989 registration
- Must be reinstated through Reenrollment Office, Office of Undergraduate Admissions, Lower Level, Mitchell Building, by below deadlines:

For Summer Session I - April 15, 1989  
For Summer Session II - May 15, 1989

## GRADUATE ADMISSIONS INFORMATION

*Registration information is on pages 4-6. Summer Only forms for admission and registration are in the center section form booklet.*

The "Summer Only" application is designed for first-time, non-degree students in the following categories:

Admission Status	Admission Requirements and Procedures
<b>ADVANCED SPECIAL STUDENTS</b> (first enrollment on campus) Advanced Special Student Status is not intended as a qualifying program for degree programs. If the student is subsequently accepted for degree or certificate study, no more than 6 credits earned in the Advanced Special Student Status may be applicable to the new program with the approval of the departmental faculty.	<ul style="list-style-type: none"> <li>- complete the enclosed application</li> <li>- submit \$25 application fee</li> <li>- meet <i>one</i> of the following criteria               <ol style="list-style-type: none"> <li>a. Hold a baccalaureate degree from a regionally accredited institution with an overall "B" (3.0) average (official transcript required).</li> <li>b. Hold a master's or doctoral degree from a regionally accredited institution (official transcript required).</li> <li>c. Hold a baccalaureate degree from a regionally accredited institution and have at least four years of successful post-baccalaureate work or professional experience (official transcript required).</li> <li>d. Achieve a score that places the applicant in the upper 50 percentile of appropriate national standardized aptitude examinations such as the Graduate Record Examination, The Miller Analogies Test, the Graduate Management Admissions Test (Official test transcripts are required).</li> </ol> </li> </ul>
<b>ADVANCED SPECIAL STUDENTS</b> (Previously enrolled on campus—graduate admission no longer valid)	<ul style="list-style-type: none"> <li>- complete the enclosed application</li> </ul>
<b>SPECIAL SUMMER INSTITUTE PARTICIPANTS</b>	<ul style="list-style-type: none"> <li>- contact institute director for special procedures</li> </ul>
<b>VISITING GRADUATE STUDENTS</b> (Other Colleges and Universities)	<ul style="list-style-type: none"> <li>- complete the enclosed application</li> <li>- provide letter of permission from parent institution</li> <li>- submit \$25 application fee</li> </ul>

The "Summer Only" application in this booklet is NOT appropriate for the following students:

<b>VISITING GRADUATE STUDENTS</b> (Other campuses of the University of Maryland)	<ul style="list-style-type: none"> <li>- no application required</li> <li>- obtain intercampus registration form from your Graduate Dean</li> <li>- obtain necessary authorizations on the home campus, then proceed to UMCP Graduate School for clearance</li> </ul>
<b>CURRENT UMCP GRADUATE STUDENT IN GOOD STANDING</b>	<ul style="list-style-type: none"> <li>- no application required</li> </ul>
<b>UMCP GRADUATE STUDENT—TIME LIMITS EXPIRED</b>	<ul style="list-style-type: none"> <li>- contact academic advisor to discuss possibilities for an extension</li> </ul>
<b>UMCP GRADUATE STUDENT WHO WISHES TO CHANGE PROGRAM/DEPARTMENT OR DEGREE REQUIREMENTS</b>	<ul style="list-style-type: none"> <li>- must file regular Graduate School application</li> <li>- must meet departmental requirements and deadlines</li> </ul>
<b>APPLICANTS FOR DEGREE PROGRAMS WHO WISH TO BEGIN STUDY IN SUMMER SESSION</b>	<ul style="list-style-type: none"> <li>- must file regular Graduate School application</li> <li>- must meet departmental requirements and deadlines</li> <li>- must submit \$25 application fee</li> </ul>

If you do not find a situation listed above that is applicable to you, or if you need additional information, write or call:

THE GRADUATE SCHOOL  
 Lee Building  
 University of Maryland  
 College Park, Maryland 20742  
 (301) 454-3141

### FOREIGN STUDENTS ADMISSION INFORMATION

Students on F-1 (student) visas who wish to attend the University of Maryland, College Park, for the Summer Sessions only must present a letter from the Dean/Chairperson of their academic department at the college or university that they are currently attending. The letter should state the institution is aware that the student is applying to UMCP's Summer Session and will return to the same institution in the Fall term. Before applying for Summer School only, foreign students must be enrolled in an academic program at another degree institution, not in an English as a Second Language program.

Foreign students on F-1 (student) status who wish to apply to begin their studies at the University of Maryland, College Park on a full-time degree-seeking basis must apply for the fall semester. If their admission is completed prior to the beginning of the Summer Session, undergraduate foreign students already in the U.S. may use their fall letter of admission to enroll in coursework offered during the Summer Sessions. Graduate foreign students should contact the Graduate School in the Lee Building prior to registration.

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## COLLEGE/MAJOR (COURSE OF STUDY)

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### UNDERGRADUATE STUDENTS ONLY:

College and Major (Course of Study) changes may be made at any time, the only restrictions being Board of Regents limitations on enrollment. If you wish to initiate a change in your College and/or Major (Course of Study):

1. Go to a College office or the Registrations Office, first floor lobby, Mitchell Building, to obtain the College/Major (Course of Study) Change Form. College office locations are listed below.
2. Complete the information requested on the form. (All necessary information is on the form.)
3. Take the completed form to your new College if you are changing Colleges. If you are changing Major (Course of Study) only, take completed form to your present College.

College	Location
Agriculture	1116 Symons
Allied Health	2106 Turner
Architecture	1204 Architecture
Arts & Humanities	1111 Francis Scott Key
Behavioral & Social Sciences	2115 Tydings
Business & Management	2136 Tydings
Education	1210 Education
Engineering	1131 Engr. Classroom Bldg.
General Studies/Individual Studies	1115 Hornbake Library
Human Ecology	1100 Marie Mount Hall
Journalism	2109 Journalism
Library & Information Services	4105 Hornbake Library
Life Sciences	1110 Symons
Mathematical & Physical Sciences	2300 Math
Physical Education, Recreation & Health	3310 Physical Education, Recreation & Health Building
Undergraduate Studies- "Undecided" Undergraduates	1117 Hornbake Library

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## GRADUATE PROGRAMS

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The Graduate School offers degree programs at both the master's and doctoral level, as well as professional certificates in selected fields. Listed below are the current graduate departments and programs at College Park. People interested in information about any of these programs and the degrees offered should contact the individual department by addressing an inquiry to: Graduate Director, Department of \_\_\_\_\_, University of Maryland, College Park, Maryland 20742. Application forms for regular degree programs may be obtained from the Graduate School or the department.

N.B. If you wish to change programs or degree objectives, you must submit a new application to the Graduate School. Current deadlines for new applications apply.

Animal Sciences Agricultural & Extension Education Agronomy American Studies Anthropology Architecture Agricultural & Resource Economics Art Astronomy Biochemistry Botany Business and Management Business and Management/Law Business and Management/Public Management Chemistry Chemical Physics Classics Comparative Literature Communication, Arts & Theatre Computer Science Criminal Justice and Criminology Dairy Science Economics Curriculum & Instruction Counseling and Personnel Services Human Development Education Industrial, Technological and Occupational Education Measurement & Statistics (Education) Education Policy, Planning, and Administration	Special Education Aerospace Engineering Agricultural Engineering Civil Engineering Chemical Engineering Electrical Engineering Engineering Materials Mechanical Engineering Nuclear Engineering English Language & Literature Entomology Food Science Family & Community Development Food, Nutrition and Institutional Administration French Language and Literature Geography Geography/Library and Information Services Geology German Language & Literature Government & Politics Hearing and Speech Science History History/Library and Information Services Health Education Horticulture	Journalism Library & Information Services Linguistics Applied Mathematics Mathematics Marine Estuarine and Environ- mental Science Meteorology Microbiology Music Nutritional Sciences Public Communications Physical Education Philosophy Physics Policy Studies Poultry Science Psychology Public Management Public Management/Law Public Policy Recreation Sociology Spanish Language & Literature Mathematical Statistics Textiles & Consumer Economics Urban Studies Zoology
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## ACADEMIC INFORMATION

The information given below is taken from *Academic Regulations*, a complete statement of which may be found in the Undergraduate and Graduate catalogs.

## THE UNIVERSITY STUDIES PROGRAM

Virtually all American colleges and universities ask that students receiving a baccalaureate degree complete a common set of requirements. These common requirements are usually referred to by the generic term "general education." General education requirements represent a faculty's definition of the knowledge, awareness and skills that all graduates should possess before that faculty will give its consent to the awarding of a degree. General education is that portion of the degree requirements in which the entire faculty has a concern.

The University Studies Program is the general education requirement at the University of Maryland, College Park. This program must be completed by all students who began baccalaureate study after May, 1980 with eight or fewer credits from this or any other college. It is intended to provide students with the intellectual skills and conceptual background basic to an understanding of the universe, society and themselves. The focus is not on any particular bodies of knowledge, for almost any subject matter can lead to an awareness of general modes of understanding the world. Thus, for example, it does not matter whether the student studies physics or botany as long as he or she comes away from the course with some understanding of the power of the empirical investigation that characterizes science.

The University Studies Program has three parts. The "Fundamental Studies" section of the program is intended to establish the student's ability to participate in the discourse of the university through demonstrated mastery of written English and mathematics. Those requirements are to be completed early in the student's program in order to serve as a foundation for subsequent work.

The "Distributive Studies" requirement is intended, through study in particular disciplines, to acquaint students with the different ways of analyzing and thinking about the world that characterize the three areas into which the university's knowledge is traditionally divided: the physical and biological sciences, the social and behavioral sciences, and the arts and humanities. The fourth category, "History and Culture," includes courses that lead to the consideration of historical and cultural differences and the relationship of our own society to those of other times and places.

In fulfilling "Distributive Studies" requirements, students will have gained some experience of the way in which scholars in different kinds of disciplines make and organize observations about the world and arrive at general statements. It is the purpose of "Advanced Studies" courses to show how these different intellectual approaches compare with each other or may be used in complementary ways to analyze and solve problems. "Development of Knowledge" courses deal with the basis upon which people who use these different approaches claim to know something and the different kinds of insights to which these intellectual strategies lead. "Analysis of Human Problems" courses consider these matters in terms of specific cultural, social, scientific or aesthetic problems which may be approached from several points of view.

The University Studies requirements, designed to be spread throughout the student's four years, represent a third of the total academic work required for graduation. It is the purpose of this program, in combination with the extensive work of the major, to help prepare students to become productive, aware and sensitive members of society, capable of understanding their world and the many kinds of people in it and of taking responsibility for their own decisions and their own lives.

### OUTLINE OF THE PROGRAM

These requirements are effective for students beginning baccalaureate study in May, 1980 or thereafter.

- I. FUNDAMENTAL STUDIES - 9 credits. (Except for ENGL 391 or 393, this requirement must be attempted by the time the student has completed 30 credit hours and passed successfully by the time the student has completed 60 credit hours.)
  - A. English Composition - 6 credits.
    1. ENGL 101 - 3 credits.
      - a. Students with TSWE scores below 33 take ENGL 104-105-106 (1 credit each)

- b. Students with SAT verbal scores of 600 or above are exempt.
  - c. Students with AP scores of 4 or 5, or an AP of 3 plus SAT verbal scores of 600 or above are exempt and earn 3 credits for ENGL 101 and 3 credits for ENGL 102.
2. ENGL 391 (Junior Level Expository Writing) or 393 (Technical Writing) - 3 credits
    - a. Must be taken *after* the student has completed 56 credit hours (i.e., has reached junior standing).
    - b. Students with SAT verbal scores of 700 or above or a grade of A in ENGL 101 or AP scores of 4 or 5 are exempt.

- B. Mathematics - 3 credits.
 

Math 110 (or the modular equivalent Math 102-3-4) or MATH 115.

  1. Students with the following minimum examination scores or higher are exempt:
    - a. SAT: 600
    - b. College Board Achievement Tests in Mathematics, Level I or II: 600
    - c. Advanced Placement Examinations, Calculus AB or BC: 3
    - d. Any CLEP *Subject Examination in Mathematics*: 60
  2. Successful completion of any of the following entry level courses higher than
 

MATH 110: MATH 111,140,141,150,151, 220,221,240, 241,246,250,251; STAT 100,250.
- II. DISTRIBUTIVE STUDIES - minimum: 24 credits.
  - A. Culture and History (min: 6 credits, 2 courses)
  - B. Natural Sciences and Mathematics (min: 6 cr., 2 courses) One course must be a laboratory science.
  - C. Literature and the Arts (min: 6 credits, 2 courses) Courses must be taken in two different departments, except honors courses.
  - D. Social and Behavioral Sciences (min: 6 credits, 2 courses)
- III. ADVANCED STUDIES - 6 credits.
 

This requirement may be fulfilled only *after* the student has completed 56 credit hours. It is intended that, in fulfilling this requirement, students choose courses that offer a contrast to the major rather than supplementing it. Courses to fulfill these requirements must be from *two different units* outside the department of the student's major.

  - A. The Development of Knowledge (1 course; 3 credits) Courses which focus on the creation, discovery, exploration, testing and evaluation of knowledge in one or more disciplines.
  - B. The Analysis of Human Problems (1 course; 3 credits) Courses which focus on the application of knowledge from one or more disciplines to the study of important human problems.

Courses to meet these requirements may be chosen from the following list. Consult the *Schedule of Classes* for course descriptions. For a complete listing of all USP courses see the Undergraduate Catalog and/or the Spring *Schedule of Classes*.

### Distributive Studies (A) Cultural and Historical—Approved Courses

CHIN	101	Elementary Chinese I
CHIN	102	Elementary Spoken Chinese
CHIN	103	Elementary Written Chinese
CLAS	170	Greek and Roman Mythology
ENGL	260	Introduction to Folklore
FMCD	330	Family Patterns
FREN	101	Elementary French I
FREN	102	Elementary French II
FREN	103	Review of Elementary French
FREN	203	Intermediate French
GEOG	150	World Cities
GEOG	202	The World in Cultural Perspective
GEOG	324	Europe
GEOG	327	South Asia
GERM	101	Elementary German I
GERM	102	Elementary German II
GERM	104	Intermediate German
GVPT	240	Political Ideologies
HIST	130	The Ancient World
HIST	133	Modern Europe
HIST	145	The Humanities II
HIST	156	History of the United States to 1865
HIST	211	Women in America since 1880

HIST	235	History of Britain 1461–1714
ITAL	101	Elementary Italian I
JAPN	101	Elementary Japanese I
JAPN	102	Elementary Japanese II
LATN	120	Intensive Latin
LATN	220	Intermediate Intensive Latin
PHED	293	History of Sport in America
PHIL	100	Introduction to Philosophy
PORT	101	Elementary Portuguese I
SPAN	101	Elementary Spanish I
SPAN	102	Elementary Spanish II
SPAN	203	Intermediate Spanish
SPAN	204	Review of Oral and Written Spanish
SPAN	311	Advanced Conversation I
SPAN	312	Advanced Conversation II
TEXT	347	History of Costume II
TEXT	363	History of Textiles
THET	310	The American Theatre

**Distributive Studies (B) Natural Sciences and Mathematics—Approved Courses**

**Lab Sciences**

ASTR	100	Introduction to Astronomy
ASTR	110	Astronomy Laboratory
BIOL	106	Principles of Biology II
BOTN	100	General Botany for Non-Science Students
CHEM	103	General Chemistry I
CHEM	104	Fundamentals of Organic and Biochemistry
CHEM	113	General Chemistry II
MICB	200	General Microbiology
PHED	360	Physiology of Exercise
PHYS	121	Fundamentals of Physics I
PHYS	122	Fundamentals of Physics II
PHYS	262	General Physics: Vibrations, Waves, Heat, Electricity and Magnetism
ZOOL	210	Animal Diversity

**Non-Lab Sciences and Mathematics**

ANTH	101	Introduction to Anthropology
ASTR	100	Introduction to Astronomy
ENES	121A	The Man-Made World
ENTM	100	Insects
GEOL	100	Physical Geology
HESP	305	Anatomy & Physiology of the Speech Mechanism
MATH	141	Calculus II
MATH	210	Elements of Mathematics
MATH	211	Elements of Geometry
MATH	221	Elementary Calculus II
MATH	240	Introduction to Linear Algebra
MATH	241	Calculus III
MATH	246	Differential Equations for Scientists and Engineers
NUTR	100	Elements of Nutrition
PHYS	161	General Physics
SOCY	201	Introductory Statistics for Sociology

**Distributive Studies (C) Literature and the Arts—Approved Courses (must be taken in two different departments)**

ARCH	170	Introduction to the Built Environment
ARTH	100	Introduction to Art
ARTH	260	History of Art I
ARTH	261	History of Art II
ARTH	262	Arts of Asia
DANC	200	Introduction to Dance
ENGL	205	Introduction to Shakespeare
ENGL	222	American Literature
ENGL	246	The Short Story
HORT	160	Introduction to the Art of Landscaping
MUSC	130	Survey of Music Literature
MUSC	140	Music Fundamentals I
RTVF	314	Introduction to the Film
SPAN	221	Readings in Spanish
SPAN	321	Survey of Spanish Literature
SPAN	322	Survey of Spanish Literature 18th–20th Century
SPAN	324	Survey of Spanish Literature II
THET	110	Introduction to the Theatre
WMST	250	Introduction to Women's Studies

**Distributive Studies (D) Social and Behavioral Sciences—Approved Courses**

CJUS	100	Introduction to Law Enforcement
CNEC	100	Introduction to Consumer Economics
CRIM	220	Criminology
ECON	201	Principles of Economics I
ECON	203	Principles of Economics II
ECON	205	Fundamentals of Economics
ECON	310	Evolution of Modern Capitalism in Western Europe and United States

ECON	311	American Economic Development
EDHD	306	A Study of Human Behavior
FNCD	250	Decision Making in Families and Communities
FOOD	110	Food for People
GEOG	100	Introduction to Geography
GEOG	130	Developing Countries
GVPT	100	Principles of Government and Politics
GVPT	170	American Government
GVPT	300	International Political Relations
HIST	157	History of the US Since 1865
HLTH	285	Controlling Stress and Tension
JOUR	100	Introduction to Mass Communication
LING	200	Introduction to Linguistics
PHED	350	Psychology of Sport
PHED	385	Motor Learning and Skilled Performance
PHIL	140	Contemporary Moral Issues
PSYC	100	Introduction to Psychology
PSYC	221	Socio-psychology
PSYC	235	Psychology of Adjustment
PSYC	310	Perception
PSYC	353	Adult Psychopathology
PSYC	355	Child Psychology
RECR	130	History and Introduction to Recreation
RTVF	124	Mass Communication in 20th Century Society
SOCY	100	Introduction to Sociology
SOCY	105	Introduction to Contemporary Social Problems
SOCY	300	American Society
SOCY	327	Introduction to Study of Deviance
SOCY	331	Work, Bureaucracy, and Industry
URBS	100	Introduction to Interdisciplinary Urban Studies
WMST	200	Introduction to Women's Studies: Women and Society

**Advanced Studies Development of Knowledge**

AMST	418K	Cultural Themes in America: Race in America: Theory and Policy
AMST	428A	American Cultural Eras: Social Dramas in American Cultural History
ANTH	401	Cultural Anthropology: Principles and Process
ASTR	330	Solar System Astronomy
ASTR	380	Life in the Universe
ECON	402	Business Cycles
EDMS	451	Introduction to Educational Statistics
ENGL	379E	Special Topics in Literature: Film Analysis—The Rhetoric of Fictional Worlds
ENGL	379J	Special Topics in Literature: Interpreting the Bible
ENGL	432	American Literature, 1865–1914, Realism and Naturalism
ENGL	489A	Special Topics in English Language: The Language of Advertising
GVPT	442	History of Political Theory—Modern and Recent
HLTH	498T	Special Topics in Health: Ways of Knowing about Human Stress and Tension
MATH	406	Introduction to Number Theory
MATH	430	Euclidean and Non-Euclidean Geometries
PHED	362	Philosophy of Sport
PHIL	328B	Marxist Philosophy
PHIL	447	Philosophy of Law
PHYS	420	Principles of Modern Physics
THET	495	History of Theatrical Theory and Criticism
WMST	400	Theories of Feminism

**Advanced Studies Analysis of Human Problems**

AMST	330	Critics of American Culture
AMST	428B	American Cultural Eras: American Film Culture in the 1960's
AREC	365	World Hunger, Population, Food Supplies and Public Policy
CLAS	374	Greek Tragedy in Translation
CNEC	310	Consumer Economics and Public Policy
CNEC	410	Consumer Finance
CNEC	431	The Consumer and the Law
CNEC	435	Economics of Consumption
CNEC	437	Consumer Behavior
ECON	315	Economic Development of Underdeveloped Areas
EDHD	413	Adolescent Development
EDHD	445	Guidance of Young Children
EDIT	476	Application of Technology to Societal Problems
EDPA	400	The Future of the Human Community
ENGL	379Q	Special Topics: More's Utopia and Modern Utopian Visions
FMCD	381	Poverty and Affluence Among Families and Communities
FMCD	431	Family Crisis and Intervention
FMCD	487	Legal Aspects of Family Problems

FMCD	497	The Child and the Law
GEOG	434	Agriculture and Rural Development
GVPT	457	American Foreign Relations
HIIST	312A	Crisis and Change in the United States
HLTH	476	Death Education
SOCY	325	Sex Roles
SOCY	460	Sociology of Work

## GENERAL UNIVERSITY REQUIREMENTS

Students who began baccalaureate study prior to May, 1980 may elect to complete these requirements rather than the University Studies Program requirements (see above).

In order to provide educational breadth for all students, there have been established the General University Requirements. These requirements consist of 30 semester hours of credit distributed among the three areas listed below. (For an exception to this regulation, see the Bachelor of General Studies Program, General Undergraduate Catalog.) At least 6 hours must be taken in each area. At least 9 of the 30 hours must be taken at the 300 level or above. None of the 30 hours may be counted toward published departmental, college or divisional requirements for a degree. Area A: 6-12 hours elected in the Divisions of Agricultural and Life Sciences; Mathematical and Physical Sciences and Engineering. Area B: 6-12 hours in the Divisions of Behavioral and Social Sciences; and Human and Community Resources. Area C: 6-12 hours in the Division of Arts and Humanities.

In meeting these area requirements, students may choose from among any undergraduate courses for which they are qualified. The students may select either the pass-fail or letter grading option for these courses as outlined on page 32. Students are urged to consult with academic advisors for guidance in determining which courses in each area best fit individual needs and interests.

Demonstration of competency in English composition: unless the student has been exempted from English composition, at least one course in the subject will be required. Exemption is granted if the student earns an acceptable score on the SAT Verbal test (score announced annually) or an acceptable score on the English Advanced Placement Test (score announced annually), or by satisfactory completion of a similar writing course at another institution.

Students taking a course to satisfy this requirement may apply the credits toward the 30-hour General University Requirement but may not count these credits toward the satisfaction of the minimum 6-hour requirement in any of the three designated areas. Credit for such a course may be in addition to the 12-hour maximum in any area.

NOTE: Students who began baccalaureate study after May, 1978 must complete the English composition requirement specified in the Fundamental Studies section of the University Studies Program (see above). Only three hours of this six hour requirement may be used to satisfy General University Requirements.

Students who entered the University prior to June, 1973 have the option of completing requirements under the former General Education Program rather than the new General University Requirements. Each student is responsible for making certain that the various provisions of either set of requirements have been satisfied prior to certification for the degree. Assistance and advice may be obtained from the academic advisor or the Office of the Administrative Dean for Undergraduate Studies.

## ACADEMIC CREDIT

The semester hour is the unit of credit. During the Summer Session a typical 3 credit hour course meets five times a week for six weeks and requires daily preparation. Each class period is 80 minutes in length.

Students who are matriculated as candidates for degrees will be given credit toward the appropriate degree for satisfactory completion of summer courses. Each student is responsible for the determination of applicability of courses selected to the degree program and is urged to consult a summer academic advisor.

All students enrolled for credit will receive an official grade for each course.

## MARKING SYSTEM

- The following symbols are used on the student's permanent record for all courses in which enrollment is continued after the initial registration and schedule adjustment period: A, B, C, D, F, I, P, S, and W. These marks remain as part of the student's permanent record and may only be changed by the original instructor on certification, approved by the department chairman and the dean or provost, that an actual mistake was made in determining or recording the grade.
- The **mark of A** denotes excellent mastery of the subject. It denotes outstanding scholarship. In computations of cumulative or semester averages, a mark of A will be assigned a value of 4 quality points per credit hour.
- The **mark of B** denotes good mastery of the subject. It denotes good scholarship. In computation of cumulative or semester averages a mark of B will be assigned 3 quality points per credit hour.
- The **mark of C** denotes acceptable mastery. It denotes the usual achievement expected. In computation of cumulative or semester averages a mark of C will be assigned a value of 2 quality points per credit hour.
- The **mark of D** denotes borderline understanding of the subject. It denotes marginal performance, and it **does not represent satisfactory progress toward a degree**. In computations of cumulative or semester averages a mark of D will be assigned a value of 1 quality point per credit hour.
- The **mark of F** denotes failure to understand the subject. It denotes unsatisfactory performance. In computations of cumulative or semester averages a mark of F will be assigned a value of 0 quality points per credit hour.
- The **mark of P** is a student option mark equivalent to A, B, C, or D. (See **Pass-Fail** option below.) The student must inform the Office of Registrations of his selection of this option by the end of the schedule adjustment period. In computation of cumulative averages a mark of P will not be included. In computation of quality points achieved for a semester, a mark of P will be assigned a value of 2 quality points per credit hour.
- The **mark of S** is a department option mark which may be used to denote satisfactory participation by a student in progressing thesis projects, orientation courses, practice teaching and the like. In computation of cumulative averages a mark of S will not be included. In computation of quality points achieved for a semester, a mark of S will be assigned a value of 2 quality points per credit hour.
- The **mark of I** is an exceptional mark which is an instructor option. It is given only to a student whose work in a course has been qualitatively satisfactory, when, because of illness or other circumstances beyond his control, he or she has been unable to complete some small portion of the work of the course. In no case will the mark I be recorded for a student who has not completed the major portion of the work of the course. The student will remove the I by completing work assigned by the instructor. It is the student's responsibility to request arrangements for completion of the work. The work must be completed by the end of the next semester in which the course is again offered and in which the student is in attendance at the College Park Campus; otherwise the I becomes terminal (equivalent to W). Exceptions to the time period cited above may be granted by the student's dean or provost upon the written request of the student if circumstances warrant further delay. If the instructor is unavailable, the department chairman will, upon request of the student, make appropriate arrangements for the student to complete the course requirements. It is the responsibility of the instructor or department chairman concerned to return the appropriate supplementary grade report to the Office of Registrations promptly upon completion of the work. The I cannot be removed through re-registration for the course or through the method of "credit by examination." In any event this mark shall not be used in any computations.
- The **mark of W** is used to denote that the student withdrew from a course after the end of the schedule adjustment period. This mark shall not be used in any computation, but for information and completeness is placed on the permanent record by the Office of Registrations. The Office of Registrations will promptly notify the instructor that the student has withdrawn from the course.
- Audit.** A student may register to audit a course or courses in which space is available. The notation **AUD** will be placed on the transcript for each course audited. A notation to the effect that this symbol does not imply attendance or any other effort in the course will be included on the transcript in the explanation of the grading system.



## PASS/FAIL OPTION

Undergraduate students who have completed 30 or more semester hours of College credit with a GPA of at least 2.0 may register on a pass/fail basis if the course offers the pass/fail grading option. At least 15 of these 30 must have been completed at the College Park Campus. Courses for which this option applies must be elective in the students' program. The courses may not be used to meet course requirements stipulated by a college, major, field of concentration, or general education program requirements. The maximum is one course per semester or summer session. Students may not choose this option when re-registering for a course. A complete statement of regulations concerning the pass/fail option is available in the Undergraduate Catalog.

## ADVANCED PLACEMENT PROGRAM

Students entering the University from secondary schools may obtain advanced placement and college credit on the basis of their performance in the College Board Advanced Placement examinations. These examinations are normally given to eligible high school seniors during the May preceding matriculation in college.

Questions about the program may be addressed to the Administrative Dean for Undergraduate Studies. Additional information is presented in the consolidated catalog. For detailed information about examinations and procedures in taking them, write:

Director of Advanced Placement Program  
College Entrance Examination Board  
475 Riverside Drive  
New York, New York 10027

## CODE OF STUDENT CONDUCT

All students are expected to adhere to the provisions of the *Code of Student Conduct*, as set forth in the Undergraduate Catalog and in the *Student Handbook*. Copies of the code may also be obtained from the office of Judicial Programs in room 2108A North Administration Building, telephone 454-2927.

## ACADEMIC DISHONESTY

Academic Dishonesty is a serious offense at the University and is defined in the *Code of Student Conduct* and in the University pamphlet entitled *Academic Dishonesty*. The code also provides that any act of academic dishonesty, including a first offense, will place the student in jeopardy "of suspension from the University, unless specific and mitigating factors are present." Disciplinary records for any act of academic dishonesty are also retained in the Judicial Programs Office for three years from the date of final adjudication. These records are available to prospective employers and other educational institutions in accordance with Federal regulations. To report academic dishonesty, or to obtain additional information, dial 454-4746 and ask for the "Campus Advocate."

## PROTECTION OF PRIVACY UNIVERSITY POLICY ON DISCLOSURE OF STUDENT RECORDS

The University of Maryland adheres to a policy of compliance with the Family Educational Rights and Privacy Act (Buckley Amendment). As such, it is the policy of the University (1) to permit students to inspect their education records, (2) to limit disclosure to others of personally identifiable information from education records without students' prior written consent, and (3) to provide students the opportunity to seek correction of their education records where appropriate. A complete statement of the University policy and procedures is contained in the Undergraduate Catalog, 1988-89, College Park Campus.

## CANDIDATES FOR DEGREES

All students who expect to complete requirements for degrees during the summer should complete application for graduation during summer registration at the Registrations Office, Mitchell Building. Applications should be filed no later than July 21, for degrees to be awarded as of August 25, 1989. While there is no graduation ceremony in August, August graduates are invited to participate in the ceremony held in December.

## DEFINITION OF FULL-TIME STATUS

For those students seeking University certification of full-time student status, the following definitions will be applied.

### UNDERGRADUATES

Normally, enrollment in courses totaling six semester hours of academic credit will be defined as full-time enrollment for one Summer Session. Enrollment for six semester hours of academic credit in each of the two Summer Sessions will be defined as full-time enrollment for the summer.

### GRADUATES

Enrollment for academic credits totaling 24 graduate units will be defined as full-time enrollment for one Summer Session. Enrollment for academic credits totaling 24 graduate units in each of the two Summer Sessions will be defined as full-time enrollment for the summer.

Courses in the series: 000-399  
carry 2 units/credit hour  
Courses in the series: 400-499  
carry 4 units/credit hour  
Courses in the series: 500-599  
carry 5 units/credit hour  
Courses in the series: 600-898  
carry 6 units/credit hour  
Research course: 799 carries  
12 units/credit hour  
Research course: 899 carries  
18 units/credit hour

## MAXIMUM LOAD

Undergraduate students may not enroll for more than eight semester hours of academic credit in one Summer Session. Normally, graduate students should not enroll for more than six semester hours in one Summer Session. Registrations above these maximums must be approved by the student's Dean.

## GOLDEN IDENTIFICATION CARD

Retired residents of Maryland age 60 and older who are not gainfully employed for more than 20 hours per week are invited to apply for a University of Maryland College Park Golden Identification Card.

The card entitles the holder to free tuition on a space-available basis beginning the first day of classes for all University of Maryland credit courses, waiver of most fees and access to all College Park programs and activities on the same basis as all other students. Use of the libraries and certain non-academic services will be available to registrants for one or more courses only during the session for which they are registered.

Program participants may simply take courses that interest them or work toward a graduate or undergraduate degree.

A high school diploma is not required for admission to undergraduate courses on the Golden ID card.

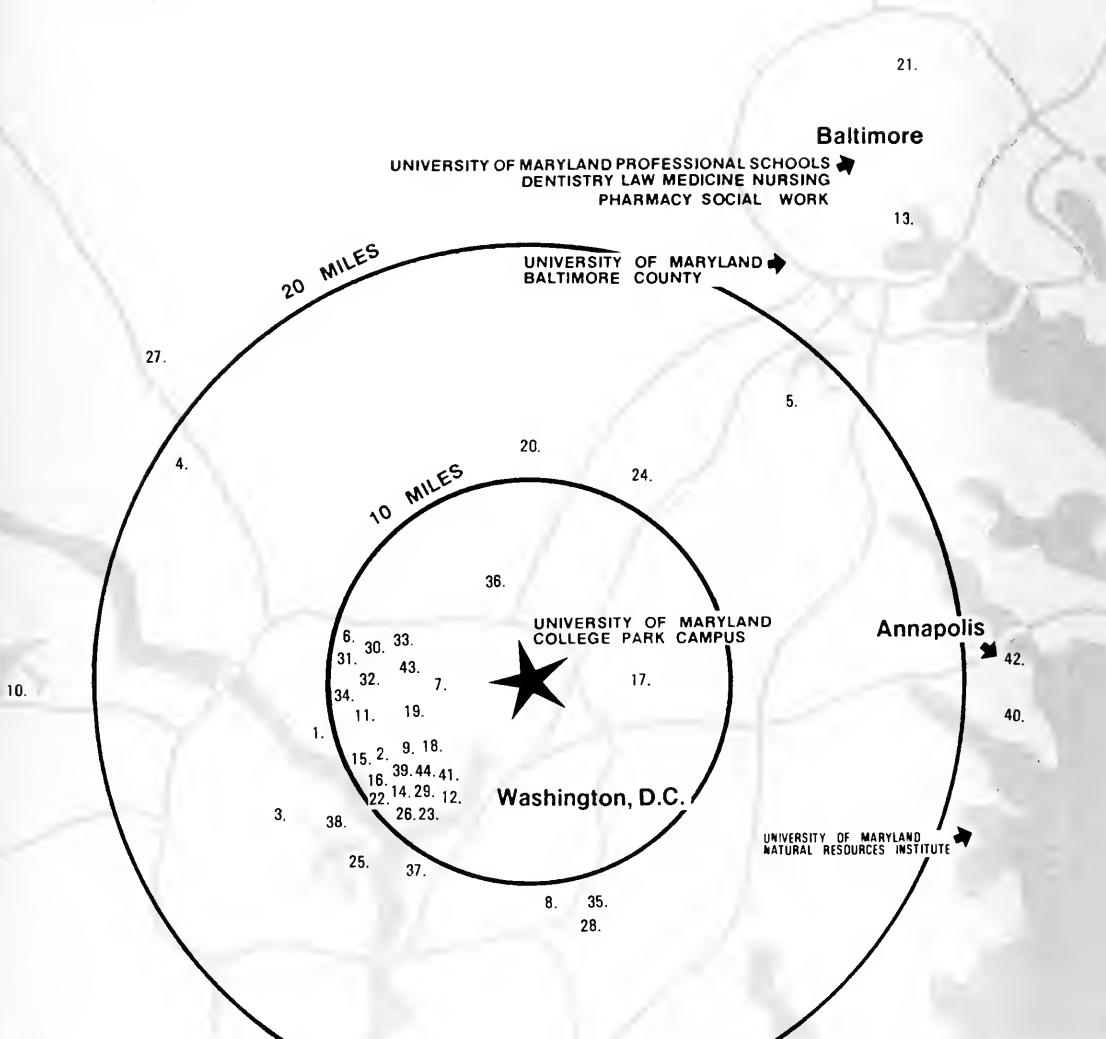
Eligibility for admission to graduate courses varies considerably from one area of study to another. In general, a bachelor's degree and a superior undergraduate academic record in an appropriate field are required. However, under some circumstances, appropriate training and experience may make up for deficiencies. The Graduate School Admission Office will respond to individual inquiries.

For information about obtaining a Golden Identification Card, contact the Office of Undergraduate Admissions at 454-5550.

## AREA RESOURCE MAP

### OTHER AREA RESOURCES

The College Park Campus is in a region which is unusually rich in libraries, research facilities, museums, galleries and cultural centers as illustrated by the map below.



1. AMERICAN UNIVERSITY
2. ARENA STAGE
3. ARLINGTON NAT. CEMETERY
4. ATOMIC ENERGY COMMISSION
5. BALTO/WASH. INTERNATIONAL AIRPORT
6. BETHESDA NAT. NAVAL MEDICAL CTR.
7. CATHOLIC UNIVERSITY
8. CENSUS BUREAU
9. CORCORAN GALLERY
10. QULLES INTERNATIONAL AIRPORT
11. DUMBARTON OAKS
12. FOLGER SHAKESPEARE LIBRARY
13. FORT McHENRY
14. FREER GALLERY
15. GEORGETOWN UNIVERSITY

16. GEORGE WASHINGTON UNIVERSITY
17. GODDARD SPACE FLIGHT CTR.
18. HIRSHHORN GALLERY
19. HOWARD UNIVERSITY
20. JOHN HOPKINS APPLIED PHYSICS LAB.
21. JOHN HOPKINS UNIVERSITY
22. KENNEDY CTR. FOR THE PERFORMING ARTS
23. LIBRARY OF CONGRESS
24. NAT. AGRICULTURE LIBRARY
25. NAT. AIRPORT
26. NAT. ARCHIVES
27. NAT. BUREAU OF STANDARDS
28. NAT. ENVIRONMENTAL SATELLITE CTR.
29. NAT. GALLERY OF ART
30. NAT. INSTITUTES OF HEALTH

31. NAT. METEOROLOGICAL CTR.
32. NAT. ZOOLOGICAL PARK
33. NAVAL MEDICAL CTR.
34. NAVAL OBSERVATORY
35. NAVAL OCEANOGRAPHIC OFFICE
36. NAVAL ORDINANCE LAB.
37. NAVAL RESEARCH LAB.
38. PENTAGON
39. SMITHSONIAN INSTITUTION
40. SMITHSONIAN ECOLOGICAL CTR.
41. U.S. CAPITAL
42. U.S. NAVAL ACADEMY
43. WALTER REED ARMY MEDICAL CTR.
44. WHITE HOUSE

## GENERAL INFORMATION



### VETERANS BENEFITS

Students attending the University under the Veterans Education Assistance Act (Title 38, U.S. Code) who completed registration will be certified on the basis of registration course requests. This certification should be verified by the student at the Registrations Office, Room 1108, Mitchell Building, 9:00 a.m. to 4:00 p.m., Monday through Friday.

#### ENROLLMENT CERTIFICATION AND VA PAYMENTS

1. Computation of enrollment status: Undergraduate student enrollment status is based on the number of standard class sessions for which the student is registered.

##### Computation of Standard Class Session

Number of Days/Week Class Meets	Lecture Session			
	80	100	120	180
1	1.6	2	2.4	3.6
2	3.2	4	4.8	7.2
3	4.8	6	7.2	10.8
4	6.4	8	9.6	14.4
5	8.0	10.0	12.0	18.0

Example: If class meets M, Tu, W, Th 8:00-9:20; then Standard Class Session (SCS) = 6.4 = 1/2 time

Number of Days/Week Class meets	Laboratory Sessions				
	80	100	120	180	240
1	.8	1	1.2	1.8	2.4
2	1.6	2	2.4	3.6	4.8
3	2.4	3	3.6	5.4	7.2
4	3.2	4	4.8	7.2	9.6
5	4.0	5	6.0	9.0	12.0

Example: If lab course meets M, Tu, W, Th, F 12:30-1:50 Lecture; M, W, F 8:00-11:00 Lab; Tu, Th 9:30-10:50 Discussion; then SCS = 8 + 5.4 + 3.2 = 16.2 = full-time

Graduate student enrollment status is based on the number of units for which the student is registered. Courses taken as "AUDIT" cannot be counted toward credit for graduate or undergraduate students. Charges are the same for audit and for credit courses.

#### TABLE FOR COMPUTING GRADUATE UNITS

000-399	2 Units per credit
400-499	4 Units per credit
500-599	5 Units per credit
600-898	6 Units per credit
799	12 Units per credit
899	18 Units per credit

Graduate registration will not be certified for any course below the 400 level unless the course is required by the major department. A letter verifying the requirement must be approved by the Graduate School and submitted to the Veterans Affairs Office. Courses below 400-level will not receive Graduate Credit.

2. Basis for payment during each Summer Session.\*

Standard Class Session (SCS) Credits	Graduate Students	Status
12+	24	Full time
9-11	18	3/4 time
6-8	12	1/2 time
less than 5	6	1/4 time

\*COURSES WHICH VARY FROM THE REGULAR SIX WEEK SESSIONS ARE CALCULATED BY THE V.A. ACCORDING TO LENGTH OF TIME AS WELL AS CREDITS OR UNITS.

The Schedule of Benefits is available in the Veterans Office, Room 1108, Mitchell Building.

3. Graduate Assistants: Graduate students who are graduate assistants will be certified for full time if the assistantship is confirmed in writing by the Graduate School. Enrollment must be for 12 units each summer session.

Please note—the Veterans Administration's definition of "full time" for Graduate Assistants differs from the University of Maryland definition and should be used only for V.A. purposes.

#### PROTECTION OF PRIVACY INFORMATION SHEET:

Public law 93-579 entitled the Privacy Act of 1974 requires that all claimants be informed of the purposes and uses to be made of the information which is solicited. The following is furnished to explain why the information is requested and the general uses to which that information may be put.

**AUTHORITY:** The Veterans Administration is empowered to solicit the information requested in this form under the authority of Title 38, United States Code.

**PURPOSE:** The information requested is considered relevant and necessary to determine maximum entitlement to the benefit for which the student has applied.

**USES:** The information will be used in determining eligibility for the maximum benefits allowable by law. The responses which are submitted may be disclosed as permitted by law outside the Veterans Administration.

**EFFECTS OF NON-DISCLOSURE:** Disclosure of the requested information is voluntary. No penalty will be imposed for failure to respond. However, the decision as to entitlement for the benefit being claimed must then be made on the basis of available evidence of record. This may result in a delay in the processing of the claim, payment of less than maximum benefits, or complete disallowance of the claim. Failure to provide information in connection with the benefit currently being sought will have no detrimental effect on any other benefits to which a veteran is entitled. (From VA Form 20-8739, July 1975).

#### COMPUTER SCIENCE CENTER

##### Non-Credit Training Courses(Summer 1989)

The Computer Science Center offers a series of *free* workstation training classes scheduled during evening and weekend hours. Classes in the use of workstations (e.g., the IBM PC, XT, AT, PS/2 and Macintosh microcomputers) are designed to be a hands-on experience for those who wish to use a computer to do their class assignments and work.

The classes include: Introduction to the IBM PC and MS-DOS, WordPerfect on the IBM PC, Introduction to the Macintosh, and MacWrite on the Macintosh. Instructors for the classes are computer experienced students. Courses will begin in June. Drop by the CSC Program Library(room 2337) to register for classes, or call 454-6945 for scheduling information.

#### SUMMER RECREATION PROGRAM

WATCH FOR THE RECREATION BROCHURE  
GREAT SUMMER SPORTS ACTIVITIES  
CULTURAL EVENTS

SPORTS TOURNAMENTS AND COMPETITIONS

For information: Reckord Armory, Room 1104, 454-3124



## STUDENT PARKING REGISTRATION

All students must register for a parking permit at the time of registration for classes. **STUDENTS MUST BRING THEIR STUDENT I.D. CARD.**

Parking permits issued to students for the 1988-89 academic year will be honored for the 1989 Summer Sessions. For new students or continuing students who did not previously register for a parking permit, there will be a registration fee of \$17.00 for campus resident students and \$9.00 for commuter students, which must be paid to the Department of Campus Parking at the time of registration (see Tuition and Fees). Students who display their parking permit may park in lots 1, 2, 4, 7, 11, and 16. All other lots are reserved for faculty and staff members. University Parking Regulations prohibit the parking of motor vehicles on any Campus road, fire lane, unpaid meters, or handicapped spaces. These regulations are enforced by the Department of Campus Parking and the Police Department.

## BICYCLE AND MOPED PARKING

Mopeds and bicycles need not be registered, but should be parked in bicycle racks provided on campus. Questions should be directed to the Department of Campus Parking, Corner of Field House Dr. and Regents, Building 202, Parking Garage 2, from 8:30 to 4:15 P.M. Monday through Friday, or by telephone on 454-4242 or 4243.

## HANDICAPPED PARKING

All persons associated with the University (including those displaying a State handicapped permit or tag) must purchase and display a UMCP-DCP parking permit for the current year. Upon the issuance of the UMCP-DCP permit, an additional UMCP-DCP handicapped permit will be issued at no charge. This additional permit must be used in conjunction with the State handicapped permit in order to use Campus spaces for the handicapped, unpaid parking meters or any ungated parking lot on campus.

Only persons to whom the handicapped privileges are extended are authorized to park in these special parking areas. Family members driving these vehicles must utilize their assigned parking lot(s).



## HEALTH CENTER

Check out the Health Center located directly across from the Stamp Union on Campus Drive for primary care of illness and injury, health promotion and maintenance, consultation or education. Health Center services include the dental clinic, men's clinic, women's clinic, skin care, sports medicine, physical therapy, nutrition counseling, mental health, social services, laboratory and a pharmacy. Individual and group health education programs are also available on topics such as sexual health, stress management and substance use and abuse.

The Health Center is open 24 hours, seven days a week. Hours vary during semester breaks and holidays. Appointments are recommended. Students, however, are also seen on a walk-in basis.

Currently registered students who have paid the health fee are eligible for care. This fee covers most routine costs. There are additional charges for special services such as X-ray, laboratory tests, dental treatment, allergy injections, casts, and pharmacy supplies.

All information in student medical records is confidential. Medical information is released only with the student's written permission or court-ordered subpoena. The Health Center does not issue routine absence excuses for illness or injury. In cases of prolonged absence or a

missed exam, with the student's signed permission, the Health Center will verify dates of treatment.

Health Center telephone numbers to remember: information X3444, appointments X4923, mental health service X4925, pharmacy X6439, health insurance X6750, health education X4922.



## ON-CAMPUS HOUSING

Every student who registers for summer sessions coursework is encouraged to live on campus in the undergraduate residence halls. Early reservation for summer sessions housing is advised. Room reservation procedures are discussed in the *Summer 1988 Residence Halls Agreement*, located at the center of this catalog. **This Agreement and accompanying instructions should be carefully read and understood before the Agreement is returned and financial obligation is incurred.** No provisions are made for family members or spouses.

For summer sessions, rooms are available from the period just prior to the start of Session I classes until final examinations are completed for Session II. Please consult the calendar on page 2 of this catalog. Spring semester campus residents who register for Session I may be permitted to move directly from spring room assignments to Summer Sessions assignments, possibly involving an additional move to a temporary assignment, according to procedures and a calendar established by the Department of Resident Life. Spring semester residents should indicate their current assignment and their desire for temporary "interim housing" privileges in the appropriate spaces on the Residence Halls Agreement (in booklet section in the center of the catalog).

Rooms in apartment/suite hall types are available for long-term stays:

- Summer assignments are in fully furnished and fully equipped apartments. Each apartment has a kitchen, two baths, shared dining room and living room and single and double bedrooms for four or six students. Apartments are air-conditioned and fully carpeted.

Bedrooms are furnished with essentials for student study and sleep. Curtains, desk lamp, wastebasket, pillow, linens, all other personal effects and room accessories are not provided. Coin-operated laundry and vending services are available.

Inquiries regarding summer sessions housing are welcomed at Department of Resident Life, 3117B North Administration Bldg., University of Maryland, College Park, MD 20742, Tele: (301) 454-2711.

## CAMPUS GUEST SERVICES

Accommodations are also available for visiting faculty and lecturers, researchers and other educators associated with the summer sessions or involved in the special programs offered during the summer term. Accommodations, rates and reservation process vary depending on length of stay and type of program.

In addition, accommodations may be provided for conference and special interest groups who wish to hold their events on campus in the summertime.

For more information about these services contact Campus Guest Services, University of Maryland, Room 1105C, South Campus Dining Hall, College Park, MD 20742, Tele: (301) 454-8723.

## GENERAL INFORMATION



### RESEARCH FACILITIES

The research programs at the University derive their existence and vigor from a faculty comprised of internationally recognized scholars and scientists. It is an advantage for undergraduate students to be aware of the University's research facilities as they plan their programs.

Active research takes place in every department on the campus. Among the exceptional research facilities are: scanning electron microscopes; subsonic, supersonic, and hypersonic wind tunnels; laboratories for radiation research and biochemical reactions; a nuclear training reactor; an electron ring accelerator; complete laboratories for the dynamic studies of soils and structures; a unique facility utilizing satellite remote sensing data; a dynamic photomechanics lab; a gravitational radiation detection system including a gravimeter on the moon; three retroreflector arrays on the moon; a psycho-pharmacology laboratory; a comfort and perception research laboratory; a historic costume/textile research laboratory; a linear accelerator; a high resolution spectroscopy facility; small groups behavioral research laboratories; computer simulation and gaming facilities; remote sensing and cartographics laboratories; specialized sound chambers for audiology research; a center for theoretical physics; a criminal forensics laboratory; an archaeometrics laboratory; laboratories for parallel computation, computer graphics, computer-aided design, biotechnology scale-up, communication & signal processing, compositor research, semiconductor research, very large scale integration, software engineering, and machine intelligence and pattern analysis; the Center for Automation Research which includes the computer vision, robotics and human/computer interaction laboratories; centers for rotorcraft education and research, architecture and engineering performance information, transportation studies, the Astronomy Observatory, and the Water Resources Center.

The College Park campus is also part of a consortium of three universities with the University of California at Berkeley, and the University of Illinois at Urbana-Champaign who operate a large millimeter array telescope at Hat Creek in California.

In addition to these research facilities, the campus supports a number of organized research activities, many of which have received national and international recognition for the quality of their research work. Among the major organized research units on campus are: the Bureau of Business and Economic Research, and Governmental Research; the Center on Aging and Center for Family Service; Educational Research and Development; National Center for Postsecondary Governance and Finance; Family Research Center; Industrial Relations and Labor Studies; Information Sciences Research; International Development and Conflict Management; Research Center for Arts and Humanities; Philosophy and Public Policy; Productivity and Quality of Working Life; Renaissance and Baroque Studies; Study and Research in Business and Public Policy; the Center for Entrepreneurship; Young Children; and the Survey Research Center; the Engineering Research Center; the Laboratory for Plasma Research; the Center for Superconductivity Research; Laboratory for Coastal Research; and the Institutes for Exceptional Children and Youth; Physical Sciences and Technology; Research in Higher and Adult Education, the Center for Research in Public Communication of the College of Journalism, the Center for Architectural Design and Research (CADRE) in the School of Architecture, and the Center for Population, Gender and Social Inequality.

Investigation in agriculture is an important aspect of University research. The Agricultural Experiment Station, which has its headquarters on the College Park campus, uses its personnel and laboratories at UMCP and UMES, as well as the off-campus research farms (totalling over 3,000 acres) to conduct research in the areas of natural resources and forestry, plants and crops, animals and poultry, economics and rural life, and general resource technology.

The College of Physical Education, Recreation and Health maintains modern research laboratories including, but not limited to, Psychophysiological Research Laboratory, the Biofeedback Learning Lab, The Safety Education Center, Leisure and Recreation Studies Laboratory, Cinematographic Analysis, Cardiovascular Measurement, Strength and other Motor Fitness Assessments, Body Composition, Analysis of Motion, and Motor Learning Research.



### DINING SERVICES

The Department of Dining Services has 17 operations to serve the University community. Among these are four dining rooms, located in the Cambridge, Ellicott, and Denton Complexes, and in the South Campus.

A full service restaurant and diverse fast food eateries line the underground central hallway of the Adele H. Stamp Union. Each shop is open daily Monday through Friday and some shops are open with special hours on Saturday.

For a special occasion or just a change of pace, What's Your Beef Restaurant offers flame broiled steaks, BBQ chicken and ribs and an extensive salad bar. Fresh dough pizza, made to order, by the slice or whole, is available at the Pizza Shop. This N' That offers a variety of favorites, including all beef hot dogs, nachos and hot pretzels. Popular, Maryland Dairy ice cream, is served any way you like it, at Dory's Sweets. Fresh from the oven breads, doughnuts and assorted pastries are prepared daily at the Bakery Stop. Ask about our personalized cakes. The Butcher's Block features flame broiled quarterpound cheeseburgers and Cajun style fried chicken. Stop by the Maryland Sandwich Factory for deli subs, sandwiches, cheeses and meats by the platter or the pound. Create your own salad at the Farmer's Market with a salad bar featuring over 50 items. Quench your thirst at the Oasis which offers an extensive selection of hot and cold beverages.

Elsewhere on campus is the Gazebo Room, open Monday through Friday, conveniently located in South Campus Dining Hall. This cafeteria features an extensive soup and salad bar, sandwiches, grill line, hot entrees and an ever changing a la carte menu. Now open Monday through Sunday, is the Leonardtown Convenience Store which sells groceries and sundries. The Hi-Rise Snack Bar and Convenience Store, located near the Ellicott Dining Hall, is also open for your convenience Monday through Sunday, for a quick bite to eat or an emergency item.



### DISABLED STUDENT SERVICES

Special assistance is available for students with disabilities. Among the services offered are: assistance with registration, reading services, interpreter services, accessibility information and orientation. Currently, handicapped shuttle service is not available during the summer. Students should contact the office at the earliest possible opportunity so that services can be arranged by the start of classes.

454-5028 (voice)  
454-5029 (TDD)

Contact the Disabled Student Services Office in the Counseling Center, Shoemaker Hall, Room 0126, 8:30 to 4:00 Monday through Friday.



### LIBRARIES

Libraries of the campus are the Theodore R. McKeldin Library (the main library), the Architecture Library, the Art Library, the Library of the College of Library and Information Services and its Juvenile Teaching Materials Collection, the White Memorial Chemistry Library, the Engineering and Physical Sciences Library, the R. Lee Hornbake Library containing the Undergraduate Library, Nonprint Media Services, and the Music Library; The Libraries have a total book collection of more than 1.8 million volumes and currently receive over 21,000 serials. In addition, the libraries contain 3.5 million microforms; 600,000 U.S., state and international government documents; over 900,000 technical reports; 64,000 cassettes, records

## GENERAL INFORMATION

and tapes; and over 93,000 maps. Bibliographical facilities include print catalogs of the Library of Congress and national bibliographies of many foreign countries, as well as access to online resources such as the OCIC and the UM online catalog. Special Collections include the Katherine Anne Porter Room, East Asia collection, Marylandia, industrial and craft union files, music education association files, the International Piano Archives at Maryland, and numerous sets of microreproductions of rare books, early and rare journals, archives and manuscripts, and other research materials in many subjects. Study carrels and lockers are available to faculty members and graduate students in the McKeldin Library. Facilities for microform reading, photocopying, ordering online data-base searches, reading reserve material and arranging interlibrary loans are available in all libraries. Anyone is welcome to use the libraries' resources on site, and UM students, faculty and staff may borrow circulating items.

### EXPERIENTIAL LEARNING PROGRAMS

0119 Hombake Undergraduate Library, 454-4767

Experiential Learning Programs (ELP) offers four of the University's most exciting learning opportunities — internships, cooperative education, volunteer service, and student exchange. Each is designed to give students "hands-on" experience that can help them integrate classroom learning with practice, provide valuable on-the-job experience, make professional contacts, observe career fields first-hand, experience different educational, work or cultural environments and clarify personal and professional goals.

#### INTERNSHIPS

An internship is a paid or unpaid work experience with specific educational objectives that can be granted academic credit. Students can use extensive ELP listings, which include more than 2000 opportunities in more than 1100 organizations, businesses and agencies to identify possible internships. Directories and catalogues are also available in the ELP office which describe hundreds of other local and national positions. In addition, the ELP staff can show students how to investigate and design unique internship opportunities which might not be listed in our files. Once students have found a placement, they can enlist a full-time faculty member to provide sponsorship for academic credit.

#### Internship Credit Policies for \_\_\_\_386/ \_\_\_\_387

Students can earn academic credit for their internship experience through departmental internships or through the campus-wide internship courses \_\_\_\_386 Field Experience and \_\_\_\_387 Analysis of Field Experience. The following are Campus Senate Policies regarding \_\_\_\_386/ \_\_\_\_387:

- \_\_\_\_386 and \_\_\_\_387 may be taken by any student with the permission of a full-time faculty member, if it is a departmental option and in accordance with departmental requirements and internship policies.
- \_\_\_\_386 and \_\_\_\_387 must be taken concurrently.
- \_\_\_\_386 and \_\_\_\_387 may be taken for a letter grade or pass-fail.
- \_\_\_\_386 and \_\_\_\_387 are variable credit courses. Each may be awarded from 1-3 credits with a maximum of 6 credits for the two courses combined, unless otherwise stipulated by departmental policy.
- \_\_\_\_386 and \_\_\_\_387 may be taken only once in a given department.
- \_\_\_\_386 and \_\_\_\_387 may be taken in only one department per semester.
- \_\_\_\_386 and \_\_\_\_387 may be taken for a maximum of 24 credits in an undergraduate program.

#### Mandatory Learning Proposals

Learning Proposals, which can be obtained in the ELP office, are mandatory for all students taking \_\_\_\_386 Field Experience and \_\_\_\_387 Analysis of field Experience. The Learning Proposal is a learning contract that spells out and clarifies the nature of a student intern's placement, learning objectives, specific responsibilities, supervision, in-service training, method of evaluation, and contact with the faculty sponsor. The process for developing a Learning Proposal is intended to include the student, faculty sponsor and the on-site supervisor, all of whom must sign the finished proposal before it is returned to ELP.

Students must have Learning Proposals completed and copies to ELP, faculty sponsors and on-site supervisors, no later than the first week of the session. If the Learning Proposal is not completed, the student may have his/her \_\_\_\_386/ \_\_\_\_387 credit removed. It is, however, strongly recommended that the Learning Proposal be completed before a student registers for \_\_\_\_386/ \_\_\_\_387. Thus, the student, faculty sponsor and on-site supervisor can be in agreement about the expectations of the internship experience prior to registration.

#### VOLUNTEER SERVICE

Students can learn while being of service to others as a student volunteer. The ELP office lists more than 400 different opportunities for community and public service in a variety of settings, addressing such issues as child welfare, family services, illiteracy, hunger, homelessness, and environmental preservation. Students are encouraged to incorporate some volunteer service as part of their undergraduate experience. The opportunities to be of service are almost without limit.

#### NATIONAL STUDENT EXCHANGE PROGRAM (NSE)

The National Student Exchange Program offers UMCP students the opportunity to study at 75 participating public colleges and universities across the country. UMCP students pay Maryland tuition and fees and exchange with a student wishing to come to College Park for a semester or a year. NSE offers the opportunity to explore new geographical settings, experience academic diversity, and study under different educational and social circumstances in various parts of the continental U.S., Hawaii, the Virgin Islands, and Puerto Rico. While the application deadline is March 1st for the following academic year, students who are interested in NSE are encouraged to contact the ELP office as soon as possible to plan for their exchange.

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## GENERAL INFORMATION

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### UNIVERSITY BOOK CENTER

The University Book Center is a retail establishment located in the lower level of the Adele H. Stamp Student Union Building. The Book Center offers textbooks, popular and professional books, art, school and office supplies, imprinted Maryland clothing, groceries and assorted sundries.



### RETIRED VOLUNTEER SERVICE CORPS

People who are retired and have career or life experience skills which they would like to continue to use can do so through the Retired Volunteer Service Corps. By volunteering three hours or more a week, talented older people can help personalize undergraduate education and provide a unique perspective to students at U.M.C.P. Volunteers utilize their unique skills as tutors, career counselors, academic advisors, teaching assistants, technical assistants and office assistants, as well as having the option of assisting in a volunteer job of their own design. For further information contact the Retired Volunteer Service Corps office at 454-4767.

### COOPERATIVE EDUCATION

Full-time students enrolled at The University of Maryland College Park have an opportunity to participate in a program which links education with practical work experience. The program is called COOPERATIVE EDUCATION.

Two co-op programs exist on UMCP's campus: Cooperative Education for Liberal Arts, Business and the Sciences and the Engineering Cooperative Education Program. While each program carries its own eligibility requirements and procedures, the benefits are the same:

- Apply classroom learning to actual practice
- Confirm career choice
- Develop professional level skills
- Earn money to help finance one's education
- Gain access to the hidden job market
- And more

Students who participate in cooperative education, both at UMCP and nationwide, have benefitted from the skills and experience gained from their co-op experience. In fact, 67% of co-op students receive job offers from their co-op employers upon graduation.

Co-op employers include both private industry and the public sector. There are a wealth of co-op files available for co-op applicant perusal.

For more information, Engineering majors should contact the Co-op Director, 1137 Engineering Classroom Building, or call 454-5191. Liberal Arts, Business and the Sciences majors should contact the Co-op Coordinator, 0119 Hombake Library, or call 454-4767.

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## SPECIAL PROGRAMS

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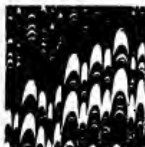
### WORKSHOPS, INSTITUTES AND OTHER SPECIAL OFFERINGS

The summer sessions offer a number of special programs of interest to both students and professional audiences. The programs frequently differ from traditional courses in instructional format and duration. In many classes scheduling differs from the dates of the standard academic sessions. Many of the special programs provide the option of registering either for credit or on a non-credit, non-matriculant basis. Some of the special programs are offered on a special fee, non-credit basis only.

Unless noted otherwise, admission procedures for credit registrations are the same as those for standard courses. Special arrangements for registration will be provided for certain workshops, details of which may be obtained from the program directors. The standard tuition and fee schedule applies for all credit registrations except that University Health Services are not provided for students registered in courses offered away from the College Park Campus, in which case the student health fee is not charged.

Reference to additional or alternative fees may be found under individual listings. Special non-credit fees apply only where specifically quoted. Registrations based upon these fees are available only to non-matriculated applicants and do not provide credit. Because special planning based upon the number of registrants is required, and because applicant screening and/or auditioning may be required, most of the special fee programs require an extra charge after a specified registration period and only a partial refund for late withdrawal. No refunds will be granted on or after the first day of any program which is less than the standard six-week terms in length. In each case, campus housing will be available at additional charge.

The descriptions following are intended to indicate only general content. For detailed information please contact the program director.



**THE MARYLAND  
SUMMER INSTITUTE FOR  
THE CREATIVE AND  
PERFORMING ARTS**  
George Moquin, Executive Director

In coordination with the Summer Entertainment Series described elsewhere in the catalog, the Institute (MSICPA) presents the following career development training programs.

**THE FIRST AMERICAN STRING QUARTET CONGRESS**  
June 19-23, Michael Tree, President

The Institute, in cooperation with Chamber Music America, the Amateur Chamber Music Players, Inc., and the Violin Society of America, is organizing and presenting this first public exposition of the state of the art of string quartet playing in America. Evening concerts to be held in the Baird Auditorium, Museum of Natural History, Smithsonian Institution, Washington, DC, are co-sponsored by the Smithsonian Resident Associates Program. Leading American artists and pedagogues will lead symposia on various aspects of the string quartet art and performance practices. Daily sessions will explore *American Works for String Quartet* and leading American composers will share their ideas on composing for this musical idiom. Violin and bow makers of the Violin Society of America will provide an exhibition of the latest examples of their craft, including matched sets of quartet instruments. Accessory manufacturers and music publishers will complete the exhibition. Daily "play-ins" by Congress registrants will be coached informally by participating professional quartet members.

**Pre-Registration Fees**  
(Received by May 19, 1989)

Full Congress: \$250.00  
Daily Rate: \$60.00

**Late Registration Fees**  
(After May 19, 1989)

Full Congress: \$300.00  
Daily Rate: \$75.00

**THE MARYLAND ASTA STRING PEDAGOGY  
CONFERENCE**

June 19-24, Gerald Fischbach, Conference Director

Concurrent with the String Quartet Congress, this intensive program for studio and school teachers will be led by Gerald Fischbach, violin, University of Maryland; William Preucil, viola, University of Iowa; Phyllis Young, cello, University of Texas; and George Vance, double-bass, Washington Susuki Bass Project. Registrants will participate in events of the String Quartet Congress and may attend rehearsals and a performance of the National Orchestral Institute Philharmonic.

Registration Fee: Same as String Quartet Congress

**THE NATIONAL ORCHESTRAL INSTITUTE**

June 9 - July 1, 1989  
Resident Conductors  
Catherine Comet  
Kenneth Jean  
Yoel Levi

A symphony orchestra of America's most talented young musicians studies and performs with three internationally acclaimed conductors. Selected from regional auditions throughout the United States, members of the NOI Philharmonic receive full tuition, room and board scholarships for this intensive career development opportunity. Musicians from America's leading orchestras and UMCP Department of Music faculty will be in residence to direct sectional rehearsals and present masterclasses. The orchestra will be presented in three public concerts. For information, contact Mr. Donald Reinhold, Administrative Director, Office of Summer Programs, University of Maryland, College Park, MD. 20742, (301) 454-3347.

**THE UNIVERSITY OF MARYLAND INTERNATIONAL  
PIANO FESTIVAL AND WILLIAM KAPPELL  
COMPETITION**

Seymour Lipkin, Artistic Director  
July 13-22, 1989

For the nineteenth consecutive summer, the Festival presents internationally acclaimed artists and teachers in masterclasses, lecture-recitals,

symposia, and recitals. The Competition offers pianists aged 18-23 more than \$42,000 in prize money. The First Prize includes \$15,000, a New York recital in Lincoln Center's Alice Tully Hall, a compact disc recording opportunity, and other engagements. Competition Finals will be held at the Kennedy Center, Washington, D.C., with the National Symphony Orchestra. All events are open to the general public.

**Pre-Registration Fees**  
(Received by June 13, 1989)

Full Festival: \$250.00  
Daily Rate: \$35.00

**Late Registration Fees**  
(After June 13, 1989)

Full Festival \$300.00  
Daily Rate: \$40.00

**THE 1989 SUMMER LECTURES**

Summer Programs is pleased to present two public lecture series during Summer 1989.

**Series I: Defense Spending and American National Security**

In cooperation with the Department of History, the Department of Government and Politics, and the School of Public Affairs.

Rarely have questions concerning the federal budget been more important than in the present case as the nation prepares for the inauguration of George Bush. The deficit is of prime concern, yet this problem is interwoven with major questions concerning the provision of human services, welfare, education, renewal, and defense, among others. Of all the budget questions those concerning defense may be the key to the solution of other financial problems; but, at the same time, one of the most vexing. Hopefully, the nation can look forward to a period of declining international tensions. Yet the armed forces seek more weapons research and production while the debate rages over systems failures, cost overruns, and, central to the issue, what is enough? The distinguished speakers who will present these lecture/debates will help us to understand one of the most important issues in the history of the nation.

Dr. Jon T. Sumida, Director

1. Tuesday, June 6, 1989  
American Geopolitical Decline: The Historical Debate  
Dr. Paul Kennedy, J. Richardson Dilworth Professor of History, Yale University; Author.  
Dr. Walter Rostow, Professor of Economics and History, University of Texas; Member of the Johnson Administration.
2. Tuesday, June 27, 1989  
American Geopolitical Circumstances, Present and Future  
Dr. Robert G. Gilpin, Eisenhower Professor of International Relations, Princeton University; Author.  
Dr. Samuel P. Huntington, Clarence Dillon Professor of International Affairs, Harvard University; Author.
3. Thursday, July 6, 1989  
The Management of Defense Spending  
Dr. Lawrence Korb, formerly Assistant Secretary for Manpower Logistics and Reserve Affairs, The Pentagon; currently, the Brookings Institution.  
Dr. Eliot Cohen, Secretary of the Navy Senior Research Fellow, United States Naval War College.
4. Thursday, July 27, 1989  
The Politics of Defense Spending  
Dr. Arnold Kanter, formerly U.S. State Department; currently, The Rand Corporation.  
Dr. Thomas McNaugher, Senior Fellow, The Brookings Institution.

**Series II: Emerging Cultures of Peace**

In cooperation with The Center for International Development and Conflict Management.

While the nation continues an intense debate concerning security, there is the suggestion that our concept of security may be changing. There has arisen in this century the beginnings, however vague and confused, of an international subculture which has identified common concerns regarding, among other topics, territory, race, religion, health, food, and economics. Particularly since the advent of the atomic bomb, this international community has concluded that war is not a viable solution, even of last resort, to international problems; that war rarely brings permanent solutions; and indeed, that the growing litigiousness both within and among groups and nations, as well as organized countermovements to modern problems like terrorism, are, in present form, usually counterproductive, expensive, and threatening to the



## SPECIAL PROGRAMS

precious freedoms which we now possess. Thus, the need for new approaches to mediation with a sense of winning solutions for all parties and vigorous searches for those values which we hold in common must be emphasized. This emerging culture has found expression around the world through people in government, religion, the humanities and the arts. It expresses an orientation which seeks to find ways for all parties to "win" through peaceful means and to avoid the age-old practice of the victor excluding the vanquished. Its approach is to create an enrichment of the concept of national security; an enhancement of security which goes far beyond the limited possibilities of military hardware.

Dr. Edward E. Azar, Director

Dates and Speakers to be announced.

### COLLEGE OF ARCHITECTURE

**ARCH 488C. Selected Topics In Architectural Presentation: Cape May Historic Preservation Workshop.** 3 credits. May 29 to June 14, 1989. A workshop and study experience in the preservation of some of the nations important architectural landmarks in the resort of Cape May, New Jersey. Professor David P. Fogle.



### COLLEGE OF ARTS AND HUMANITIES

**The Summer Institute for The Advancement of High School Teachers of German**

June 19 to July 8, 1989. 6 credits. 9:00-5:00 daily. The University of Maryland Department of Germanic and Slavic Languages and Literatures in cooperation with the Goethe House, New York City, presents an intensive German program for students who seek greater oral and written fluency as well as studies in German culture. Open to qualified students who wish to improve German skills and to work toward a graduate degree. Due to generous support from the Goethe House, tuition will be waived for those accepted into the program. However, there will be a special seminar fee of \$300.00. Students will live in a dormitory and speak in German at all times. For details contact Dr. Guenther Pfister, Department of Germanic and Slavic Languages, University of Maryland, College Park, MD 20742. Telephone: 301-454-4301.



### COLLEGE OF BEHAVIORAL AND SOCIAL SCIENCES

**Department of Anthropology**

**ANTH 499A/699A/389A/SUMM 015. Field Methods In Historical Archaeology.** 6 credits or non-matriculant/non-credit registration at a special fee of \$600.00. June 5 to July 14, 1989. 8:00 a.m. - 4:00 p.m. Professor Mark Leone

An anthropological field school conducted at Annapolis, Maryland in cooperation with Historical Annapolis, provides and opportunity for students who wish to acquire skills in archaeological research. Open to both majors and non-majors. For details contact Dr. Mark Leone, Department of Anthropology, University of Maryland, College Park, MD. 20742. Telephone: 301-454-4154.



### COLLEGE OF JOURNALISM

#### Thirteenth Annual University of Maryland School Press Workshops and Yearbook Short Course

School Press Workshop I:  
Writing and Editing  
June 26 through June 30, 1989  
MTWThF, 9:30-3:30  
Special Fee: \$80.00

School Press Workshop II:  
Design and Production  
June 26 through June 30, 1989  
MTWThF, 9:30-3:30  
Special Fee: \$80.00

Featuring nationally known journalists and educators, the School Press Workshops provide special training for high school newspaper and newsmagazine publishing. School Press Workshop I focuses on newswriting, interviewing, sports reporting, editorial writing, and feature writing. School Press Workshop II provides experience with design techniques, typography, pasteup, and headline writing. Air-conditioned dorm/hotel accommodations available at extra charge. For further information and application, write to Mrs. Lois Kay, College of Journalism, University of Maryland, College Park, MD 20742 or call 301-454-6939.

#### Yearbook Short Course

June 21 through June 23, 1989  
WThF, 9:30 a.m.-4:00 p.m.  
Special Fee: \$60.00

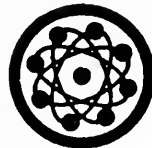
In the thirteenth annual Yearbook Short Course high school editors, reporters, and advisers can plan their 1988-89 school yearbook. Lecturers include noted yearbook experts. Lectures and work sessions will be held on budget and finance, advertising, theme, content, copywriting, photography, contemporary design, graphics, covers, and staff organization. Air-conditioned dorm/hotel accommodations available at extra charge. For further information and application, write to Mrs. Lois Kay, College of Journalism, University of Maryland, College Park, MD 20742 or call 301-454-6939.



### COLLEGE OF LIBRARY AND INFORMATION SERVICES

**LBSC 499A/SUMM 008A. Archival Automaton.** 3 credits or non-matriculant/non-credit registration at special fee of 500.00. June 5 to July 14. M-W, 10:00 a.m. - 1:00 p.m. Professor Frank Burke

Computer applications for a broad range of records management and archival activities, including control of office files through appraisal, accessioning, arrangement, description, and use. Special emphasis on administering documentary collections with computer assistance.

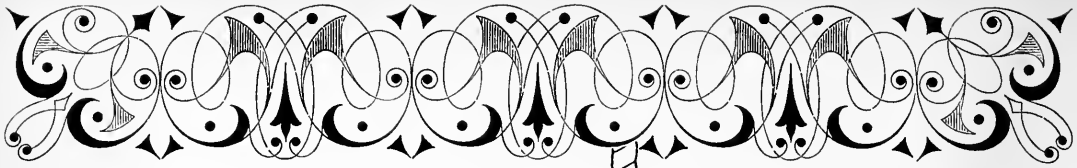


### COLLEGE OF COMPUTER, MATHEMATICAL AND PHYSICAL SCIENCES

**Department of Mathematics**

**SUMM 003. Building Math Self-Confidence: A Review of High School Algebra.** Non-credit. June 5 to June 23, M-F, 9:00 a.m. - 12:00 p.m. Building N, Room 2102. Special fee: \$250.00. Professor Elizabeth Shearn.

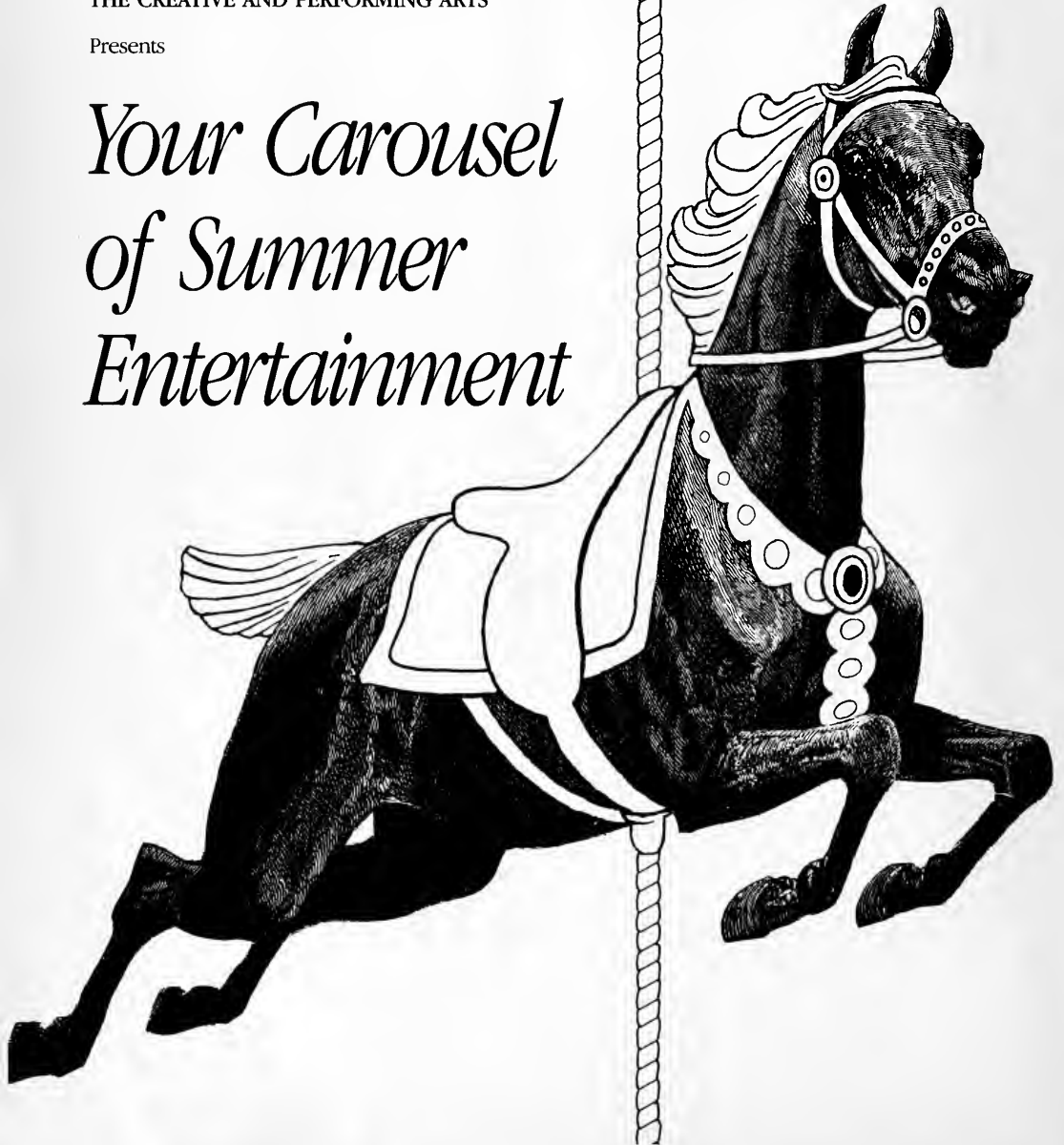
Offered through the Counseling Center, this special course assists students in gaining confidence in math through instruction and practice in the basics of Algebra. The work prepares students for college level math courses.

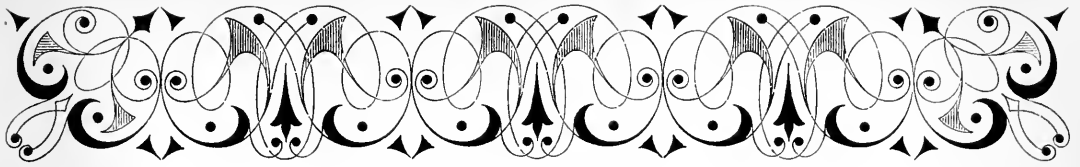


THE MARYLAND SUMMER INSTITUTE FOR  
THE CREATIVE AND PERFORMING ARTS

Presents

*Your Carousel  
of Summer  
Entertainment*





With complimentary ticket admission to the following events:

## SESSION I

*Saturday, June 3, 8:15 p.m.*

OPERA NORTHEAST's production of Rodgers and Hammerstein's *CAROUSEL*, with orchestra

*Saturday, June 10, 8:15 p.m.*

CHICAGO PRO MUSICA  
Grammy-Award-Winning ensemble of virtuosos from the Chicago Symphony Orchestra

*Saturday, June 17, 8:15 p.m.*

THE NATIONAL ORCHESTRAL  
INSTITUTE PHILHARMONIC  
Catherine Comet, Conductor  
Mendelssohn: *Symphony No. 5*  
Britten: *Four Sea Interludes*  
from "Peter Grimes"  
Debussy: *La Mer*

*Saturday, June 24, 8:15 p.m.*

THE NATIONAL ORCHESTRAL  
INSTITUTE PHILHARMONIC  
Kenneth Jean, Conductor  
Paulus: *The Postman Always*  
*Rings Twice:*  
*Orchestral Suite*  
Mahler: *Symphony No. 5*

*Saturday, July 1, 8:00 p.m.*

THE NATIONAL ORCHESTRAL  
INSTITUTE PHILHARMONIC  
Yoel Levi, Conductor  
Barber: *School for Scandal*  
*Overture*  
Haydn: *Symphony No. 88*  
Stravinsky: *Rite of Spring*

*Saturday, July 15, 8:30 p.m.*

RUDOLF FIRKUSNY, pianist

## SESSION II

*Sunday, July 16, 8:30 p.m.*

PETER FRANKL, pianist

*Monday, July 17, 8:30 p.m.*

CHARLES ROSEN, pianist

*Tuesday, July 18, 8:30 p.m.*

TAMAS VASARY, pianist

*Wednesday, July 19, 8:30 p.m.*

VLADIMIR VIARDO, pianist

*Friday, July 21, 8:30 p.m.*

JORGE BOLET, pianist

*Saturday, July 29, 8:15 p.m.*

WOODY HERMAN ORCHESTRA  
Frank Tiberi, Director

All performances in Tawes Theatre, University of Maryland at College Park, except for July 1 concert which will be in Meyerhoff Symphony Hall, Baltimore, Maryland

## COMPLIMENTARY TICKETS

Students who register for Summer Sessions, and students, faculty, staff and alumni who purchase a Summer Activity Card are eligible for one complimentary ticket for each of twelve 1988 performing arts events listed above.

## HOW TO QUALIFY

Registered Summer Sessions students present their Registration Card at the Tawes Theatre Box Office. Faculty, staff, alumni and students not registered for Summer Sessions may purchase a Summer Activity Card at the Campus Recreation Services Window located in the Reckord Armory Lobby, and then present the card at the Tawes Theatre Box Office.

## WHERE AND WHEN

Tawes Theatre Box Office will be open Monday through Friday, 12:30-5:30 p.m., and at 7:30 p.m. on performance evenings. Beginning Tuesday, May 30, Summer Activity Card holders will be issued complimentary tickets on a weekly, first-come, first-served basis. A schedule of ticket distribution dates will be published and distributed to Summer Sessions registrants and purchasers of Activity Cards.

*A* Public Exposition  
of the State of the  
Art of String Quartet  
Playing in America

Professionals, amateurs,  
teachers and students  
are invited to register to  
attend this collegial  
meeting.

### CONCERTS BY

American String Quartet  
Angeles Quartet  
Audubon Quartet  
Broadway String Quartet  
Cavani String Quartet  
Chester String Quartet  
Cleveland Quartet  
Colorado Quartet  
Composers String Quartet  
Franciscan String Quartet  
Manchester String Quartet  
Mendelssohn String  
Quartet  
Muir Quartet  
New World String Quartet  
Orford String Quartet  
Really Eclectic String  
Quartet  
Turtle Island String Quartet  
1989 Winner of the Banff  
International String  
Quartet Competition

### SYMPOSIA TOPICS

Staying Together  
Career Directions  
Repertoire Selection  
Instrument Making  
Rehearsal Techniques  
Inner Voices  
Intonation  
Composing for the  
String Quartet

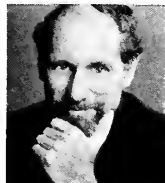
### EXHIBITIONS BY

Instrument and Bow Makers  
of the Violin Society of  
America



*The First American*  
**STRING  
QUARTET  
CONGRESS**

JUNE 19-23, 1989



**MICHAEL TREE**  
*President*

UNIVERSITY OF MARYLAND AT  
COLLEGE PARK  
*and*  
SMITHSONIAN INSTITUTION  
WASHINGTON, DC

Accessory manufacturers  
Music Publishers

### DAILY SESSIONS

American Works for  
String Quartet

Registrant "Play-Ins" with  
informal coaching

### CONCURRENT ASTA STRING PEDAGOGY CONFERENCE

*June 19-24*

Gerald Fischbach, VIOLIN,  
*Conference Director, University  
of Maryland*

William Preucil, VIOLA,  
*University of Iowa*

Phyllis Young, CELLO,  
*University of Texas*

George Vance, DOUBLE-  
BASS, *Washington Suzuki  
Bass Project*

The Congress is organized  
and sponsored by The  
Maryland Summer Institute  
for the Creative and  
Performing Arts, University  
of Maryland, College Park,  
in cooperation with  
Chamber Music America,  
Amateur Chamber Music  
Players, Inc., and the Violin  
Society of America. Evening  
concerts to be held in the  
Baird Auditorium, Museum  
of Natural History,  
Smithsonian Institution,  
Washington, DC, are co-  
sponsored by the  
Smithsonian Resident  
Associates Program.

*For Registration Brochure and  
information:*

STRING QUARTET CONGRESS  
Summer Programs  
University of Maryland  
College Park, MD 20742

**Telephone**

**(301) 454-5910**



**N**inety talented young musicians from throughout the nation will be in residence, on full scholarships, to study the great orchestral literature with internationally-renowned conductors and principal musicians from America's leading orchestras. Daily rehearsals will culminate in three public concerts:

*June 17 & 24*  
TAWES THEATRE

*July 1*  
MEYERHOFF  
SYMPHONY HALL  
Baltimore

**FOR MORE  
INFORMATION:**

The National Orchestral Institute  
SUMMER PROGRAMS  
University of Maryland  
College Park, MD 20742  
(301) 454-5276

# *The National Orchestral Institute*

UNIVERSITY OF MARYLAND  
COLLEGE PARK

June 9 – July 1, 1989

## *Resident Conductors*

- CATHERINE COMET  
*Music Director*  
Grand Rapids Symphony
- KENNETH JEAN  
*Music Director*  
Florida Symphony Orchestra  
*Associate Conductor*  
Chicago Symphony Orchestra
- YOEL LEVI  
*Music Director*  
Atlanta Symphony Orchestra

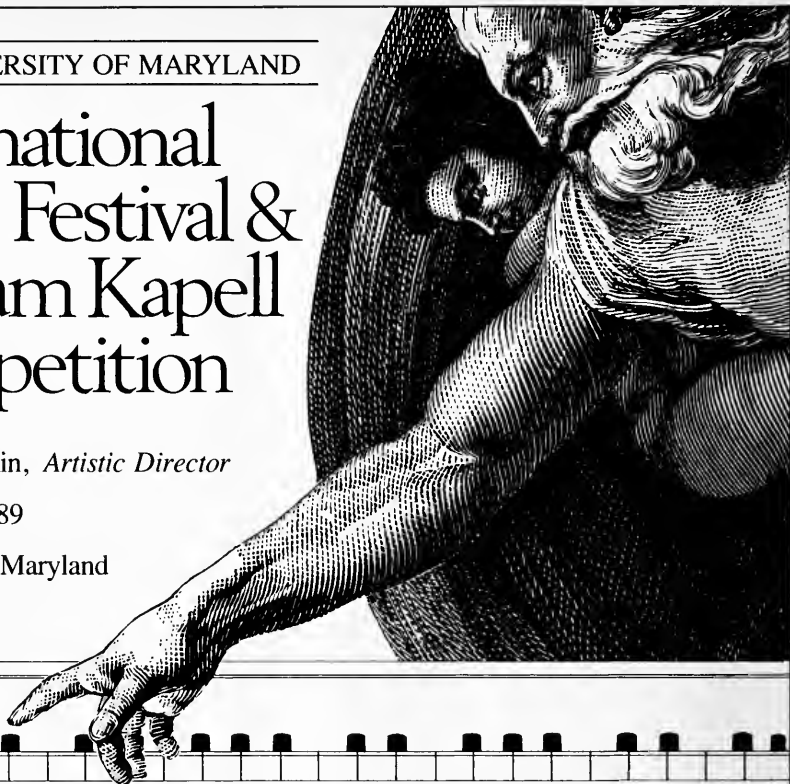
THE UNIVERSITY OF MARYLAND

# International Piano Festival & William Kapell Competition

Seymour Lipkin, *Artistic Director*

July 13-22, 1989

College Park, Maryland



## The Festival

- Registration Open to Pianists of All Ages
- Special Registration Rates for Students

Hear Recitals, Lectures, and Masterclasses by Major Artists

*Saturday, July 15, 8:30 p.m.*  
RUDOLF FIRKUSNY

*Sunday, July 16, 8:30 p.m.*  
PETER FRANKL

*Monday, July 17, 8:30 p.m.*  
CHARLES ROSEN

*Tuesday, July 18, 8:30 p.m.*  
TAMAS VASARY

*Wednesday, July 19, 8:30 p.m.*  
VLADIMIR VIARDO

*Friday, July 21, 8:30 p.m.*  
JORGE BOLET

All performances in Tawes Theatre, University of Maryland at College Park.

## The Competition

- Finals at the Kennedy Center with the National Symphony Orchestra
- Over \$40,000 in Prizes
- Winner Receives \$15,000 and New York Recital

**FOR INFORMATION  
CALL (301) 454-5276**

Donald Reinhold, *Coordinator*  
**Piano Festival and Competition**  
Summer Programs  
University of Maryland  
College Park, MD 20742

WILLIAM KAPELL (1922-1953)



*University of Maryland*  
INTERNATIONAL  
**WILLIAM KAPELL**  
PIANO ♦ COMPETITION

*July 13-22, 1989*

# A EED

## AGRICULTURAL AND EXTENSION EDUCATION (AGRICULTURE)

**A EED 325 Directed Experience in Extension Education 1-5 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Miller, M  
 Prerequisite: satisfactory academic average and permission of instructor. Full-time observation and participation in selected aspects of extension education in an approved training county.

**A EED 487 Conservation of Natural Resources 3 credits; Grading Method: REG-P-F**  
 Concurrent registration with AEED 487 required. Field trips: 6:10, 6:17, 6:28-6:30, 7:5-7:7. An \$80 transportation fee for field trips will be assessed.

0101 W 7:00pm-10:00pm Bldg. SYM, Room 0115 Gibson Jr., G  
 Time Arranged Room Arranged (DIS) Miller, M  
 Designed primarily for teachers. Study of state's natural resources: soil, water, fisheries, wildlife, forests, and minerals; natural resources problems and practices. Extensive field study. Concentration on subject matter. Taken concurrently with AEED 497 in summer season.

**A EED 489 Field Experience 1-4 credits; Grading Method: REG**  
 Permission of department required. Contact department to make arrangements.  
 0101 Time Arranged Room Arranged Miller, M  
 0201 Time Arranged Room Arranged Miller, M  
 Planned field experience for both major and non-major students. Repeatable to a maximum of four credits.

**A EED 497 Conservation of Natural Resources 3 credits; Grading Method: REG-P-F**  
 Concurrent registration with AEED 487 required.  
 0101 W 7:00pm-10:00pm Bldg. SYM, Room 0115 Gibson Jr., G  
 Time Arranged Room Arranged (DIS)  
 Designed primarily for teachers. Study of state's natural resources: soil, water, fisheries, wildlife, forests, and minerals; natural resources problems and practices. Extensive field study. Methods of teaching conservation included. Taken concurrently with AEED 487 in summer season.

**A EED 499 Special Problems 1-3 credits; Grading Method: REG**  
 Permission of department required. Contact department to make arrangements.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**A EED 699 Special Problems 1-3 credits; Grading Method: REG**  
 Permission of department required. Contact department to make arrangements.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**A EED 789R Special Topics: Supervised Occupational Experience Programs in Ag Ed 3 credits; Grading Method: REG**  
 Permission of department required. This course will meet at the scheduled time for the first 2 weeks of classes. Other meeting times are arranged. Contact department to make arrangements.  
 0201 W 6:00pm-9:00pm Bldg. SYM, Room 0115 Cooper, E  
 Time Arranged Room Arranged (DIS)

**A EED 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**A EED 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

# AGRI

## AGRICULTURE (AGRICULTURE)

**AGRI 389 Internship in Natural Resources Management 3 credits; Grading Method: S-F**  
 Permission of department required. Natural resources management majors only.  
 0101 Time Arranged Room Arranged Gibson Jr., G

# AGRO

## AGRONOMY (AGRICULTURE)

**AGRO 386 Field Work 1-3 credits; Grading Method: REG-P-FAUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**AGRO 387 Field Work Analysis 1-3 credits; Grading Method: REG-P-FAUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**AGRO 499 Special Problems in Agronomy 1-3 credits; Grading Method: REG-P-FAUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**AGRO 608 Research Methods 2 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**AGRO 608A Research Methods: Field Studies in Pedology 1-4 credits; Grading Method: REG/AUD**  
 Permission of department required.  
 0201 Time Arranged Room Arranged Rabenhorst, M

**AGRO 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**AGRO 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

# AMST

## AMERICAN STUDIES (ARTS AND HUMANITIES)

**AMST 330 Critica of American Culture 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Advanced Studies Analysis of Human Problems requirement.  
 0201 TuTh 9:00am-12:00pm Bldg. TLF, Room 2108 Mintz, L  
 Philosophies of American social purpose and promise. Readings from "classical" American thinkers, contemporary social commentators, and American studies scholars.

**AMST 396 Independent Studies 1-3 credits; Grading Method: REG-P-FAUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

# AMST cont.

**AMST 418A Cultural Themes in America: Culture and Society in American Humor 3 credits; Grading Method: REG-P-FAUD**  
 0201 TuTh 1:00pm-4:00pm Bldg. TLF, Room 2110 Mintz, L  
 This course will examine humor as a reflection of, and influence on American values, beliefs, and social institutions. It will include theoretical discussions, an historical survey, and a study of contemporary humor considered in a variety of sources—literature, journalism, graphic arts, the mass media, and oral traditions. Attention will be given to the construction of stereotypes and to the treatment of important social concerns (the family, sexuality, class structure, political issues).

**AMST 418K Cultural Themes in America: Race in America: Theory and Policy 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Advanced Studies Development of Knowledge requirement.  
 0102 MTUWThF 8:00am-9:20am Bldg. TLF, Room 2110 Diner, H  
 0102 MTUWThF 9:30am-10:50am Bldg. TLF, Room 2108 Diner, H  
 American culture has been, since its earliest days, concerned with categorizing and labeling people on the basis of distinguishable physical characteristics. The evolution of this tendency to link physical differences with mental and temperamental differences historically involved the fields of the natural sciences, geography, ethnology, linguistics, theology, and literature. Race theory spilled over into American politics—both foreign and domestic—and shaped laws, mores, and the biases of racialist theorists. Prerequisite: a prior course in American Studies, American History, or Sociology.

**AMST 428A American Cultural Eras: Social Dramas in American Cultural History 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Advanced Studies Development of Knowledge requirement.  
 0101 MW 7:00pm-10:00pm Bldg. TLF, Room 2126 Lounsbury, M  
 Applying the methods of sociology, rhetorical analysis and anthropology, the course will explore the dramatic nature of face-to-face relationships, small group behavior, and public media events. After placing American social dramas in historical perspective, we will focus on the 1960's, its "heroes" (John F. Kennedy, Martin Luther King, Malcolm X), communal activities (the Merry Franksters, the Esalen Institute) and radical demonstrations (1964 Berkeley, 1968 Chicago). Prerequisite: a prior course in American Studies, American History or Sociology.

**AMST 428B American Cultural Eras: American Film Culture in the 1960's 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Advanced Studies Analysis of Human Problems requirement.  
 0101 MW 1:00pm-4:00pm Bldg. TLF, Room 2126 Lounsbury, M  
 Investigating the interaction between the film medium and an era of significant cultural change, the course will emphasize: 1) institutional factors (the Hollywood industry, the avant-garde film critics) that influence the production and appreciation of the motion picture, 2) Hollywood genres (the horror film, the war movie, the gangster melodrama) undergoing substantial transformations during this period, 3) documentaries and experimental narrative films exploring the medium as an instrument for social observation and reform. Prerequisite: one of the following: American studies course; a film course; a twentieth-century American history course; an art history course; a sociology course.

**AMST 696 Directed Readings in American Studies 3 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**AMST 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**AMST 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

# ANSC

## ANIMAL SCIENCE (AGRICULTURE)

**ANSC 386 Field Work 1-3 credits; Grading Method: REG-P-FAUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ANSC 387 Field Work Analysis 1-3 credits; Grading Method: REG-P-FAUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ANSC 399 Special Problems in Animal Science 1-2 credits; Grading Method: REG-P-FAUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ANSC 660 Poultry Literature 1-4 credits; Grading Method: REG/AUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Doerr, J  
 0201 Time Arranged Room Arranged Doerr, J

Readings on individual topics are assigned. Written reports required. Methods of analysis and presentation of scientific material are discussed.

**ANSC 699 Special Problems in Animal Science 1-2 credits; Grading Method: REG/AUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ANSC 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ANSC 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

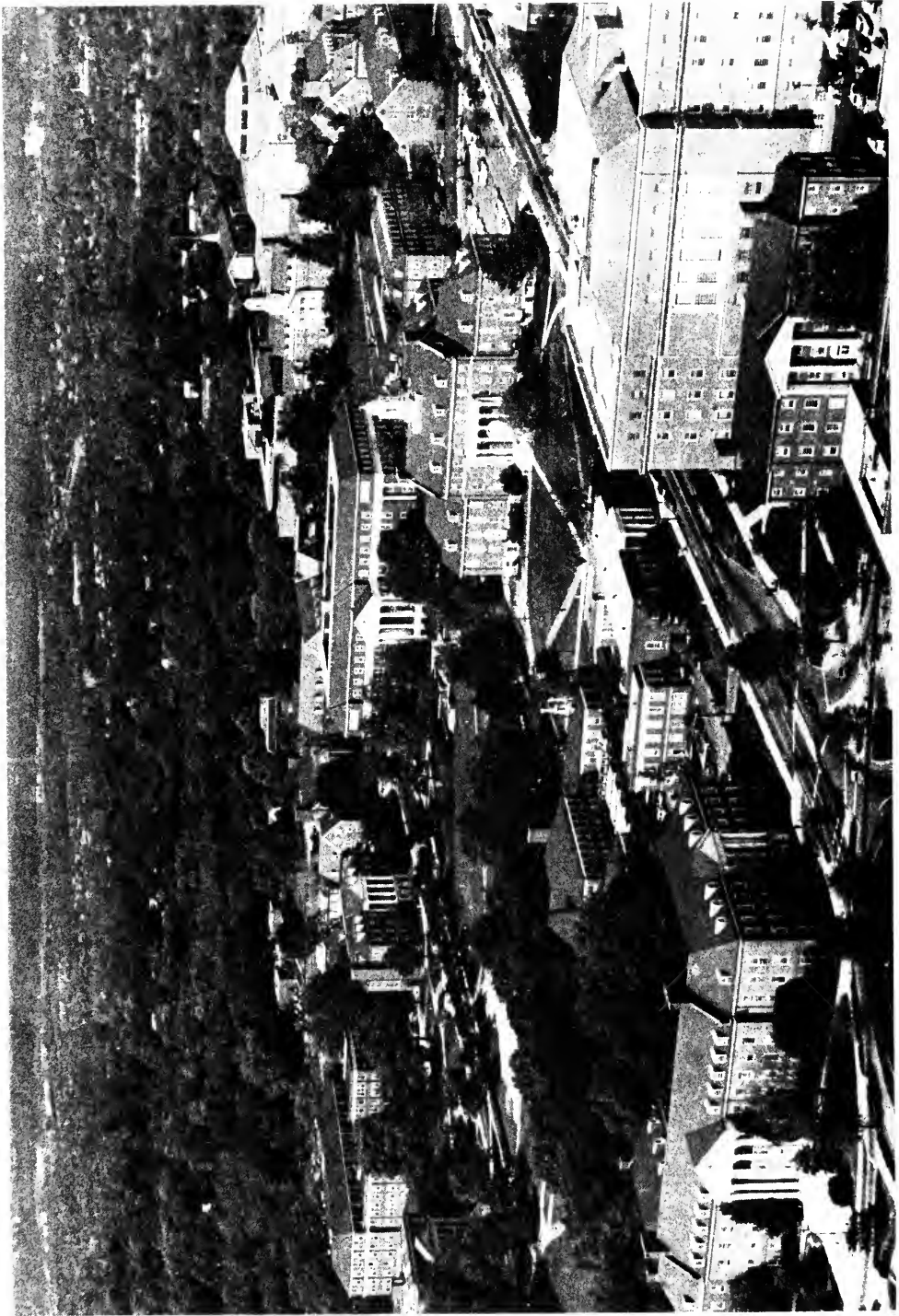
# ANTH

## ANTHROPOLOGY (BEHAVIOR AND SOCIAL SCI)

**ANTH 101 Introduction to Anthropology: Archaeology and Physical Anthropology 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.  
 0101 MTUWThF 9:30am-10:50am Bldg. TLF, Room 0124 Shuart, W  
 May be taken for credit in the general education program. General patterns of the development of human culture, the biological and morphological aspects of man viewed in his cultural setting.

**ANTH 389A Research Problems 1-6 credits; Grading Method: REG-P-FAUD**  
 Permission of department required.  
 0101 Meets JUN 5 to JUL 14 Room Arranged Leone, M  
 MTUWThF 8:00am-4:00pm





**ANTH cont.**

- ANTH 401 Cultural Anthropology: Principles and Processes**  
3 credits; Grading Method: REG-P/AUD  
Meets USP Advanced Studies Development of Knowledge requirement.
- 0101 MTuWThF 12:30pm-1:50pm Bldg. TYD, Room 1132 Stuart, W  
Prerequisite: ANTH 101, 102, or 221. An examination of the nature of human culture and its processes, both historical and functional. The approach will be topical and theoretical rather than descriptive.
- ANTH 499A Field Methods in Archaeology: Summer Field School in Archaeology**  
1-6 credits; Grading Method: REG-P/AUD  
See special programs section of catalog.
- 0101 Meets JUN 5 to JUL 14  
MTuWThF 8:00am-4:00pm Room Arranged Leone, M
- ANTH 689A Special Problems in Anthropology** 1-6 credits; Grading Method: REG/AUD  
0101 Meets MAY 30 to JUL 7  
MTuWThF 8:00am-4:00pm Room Arranged Leone, M  
0201 Time Arranged Room Arranged Stuart, W
- ANTH 699A Advanced Field Training in Archaeology: Summer Field School in Archaeology**  
1-6 credits; Grading Method: REG/AUD  
See special programs section of catalog.
- 0101 Meets JUN 5 to JUL 14  
MTuWThF 8:00am-4:00pm Room Arranged Leone, M
- ANTH 705 Internship 6-12 credits; Grading Method: REG/AUD**  
Permission of department required.
- 0101 Time Arranged Room Arranged (LAB) Whitehead, T  
Prerequisite: ANTH 701. Problem-oriented internship with an appropriate public agency or private institution under the direction of a faculty and agency supervisor.
- ANTH 712 Internship Analysis 3 credits; Grading Method: REG/AUD**  
0101 Time Arranged Room Arranged Whitehead, T  
Prerequisite: ANTH 705. The preparation and presentation of internship quality report based on the internship experience. Review of problems in ethics and professional development.

**APDS****APPLIED DESIGN (ARTS AND HUMANITIES)**

- APDS 101 Fundamentals of Design** 3 credits; Grading Method: REG-P/AUD  
0101 Meets JUN 5 to JUL 27  
MWF 9:00am-12:00pm Bldg. MMH, Room 2411 (LAB) Roper, J  
Knowledge of basic art elements and principles gained through design problems which employ a variety of media.
- APDS 102 Design II** 3 credits; Grading Method: REG-P/AUD  
0101 Meets JUN 5 to JUL 27  
MWF 8:30am-11:30am Bldg. MMH, Room 2415 (LAB) Sham, F  
Prerequisite: APDS 101. Continued exploration of design as a means of visual expression with added emphasis on color and lighting.
- APDS 103 Design III: Three-Dimensional Design** 3 credits; Grading Method: REG-P/AUD  
0101 Meets JUN 5 to JUL 27  
MWF 1:00pm-4:00pm Bldg. MMH, Room 2415 (LAB) Sham, F  
Pr- or co-prerequisite: APDS 102. Creative efforts directed to discriminating use of form, volume, depth, and movement.
- APDS 210 Presentation Techniques** 1-3 credits; Grading Method: REG-P/AUD  
Design majors only.
- 0101 Meets JUN 5 to JUL 27  
TuTh 8:00am-12:30pm Bldg. MMH, Room 2411 (LAB) Davis, S  
Prerequisites: APDS 103 or equivalent. Open only to advertising design majors. Emphasis on basic drawing including the human figure and illustration techniques used in several areas of graphic design.
- APDS 237 Photography** 3 credits; Grading Method: REG-P/AUD  
Advertising design majors only.
- 0101 Meets JUN 5 to JUL 27  
TuTh 8:00am-12:30pm Bldg. MMH, Room 0110 (LAB) Elliott, L  
Prerequisites: APDS 101, 102, or equivalent. Study of fundamental camera techniques. Exploration of the expressive possibilities in relation to the field of design and visual communication.
- APDS 337 Advanced Photography** 3 credits; Grading Method: REG-P/AUD  
Advertising design majors only.
- 0101 Meets JUN 5 to JUL 27  
TuTh 1:00pm-5:30pm Bldg. MMH, Room 0110 (LAB) Gips, C  
Prerequisite: APDS 237. Composition, techniques and lighting applicable to illustration, documentation, advertising design, and display.
- APDS 431 Advanced Problems in Advertising Design** 3 credits; Grading Method: REG-P/AUD  
Advertising design majors only.
- 0101 Meets JUN 5 to JUL 27  
TuTh 8:00am-12:30pm Bldg. MMH, Room 1413 Thorpe, J  
Prerequisite: APDS 430. Advanced problems in design and layout planned for developing competency in one or more areas of advertising design.
- APDS 499A Individual Problems in Applied Design** 3-4 credits; Grading Method: REG-P/AUD  
Permission of department required.
- 0101 Time Arranged Room Arranged Staff
- APDS 499S Individual Problems in Applied Design: Advanced problems in Typography; Typography as Imagery** 3 credits; Grading Method: REG-P/AUD  
Prerequisite: APDS 330.
- 0101 Meets JUN 5 to JUL 27  
TuTh 1:00pm-5:00pm Bldg. MMH, Room 1413 Davis, S  
TuTh 1:00pm-5:00pm Bldg. MMH, Room 1413 (LAB)

**ARCH****ARCHITECTURE (ARCHITECTURE)**

- ARCH 170 Introduction to the Built Environment** 3 credits; Grading Method: REG-P/AUD  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- 0101 MTuWThF 9:30am-10:50am Bldg. ARC, Room 1105 Staff  
Introduction to conceptual, perceptual, behavioral and technical aspects of environmental design; methods of analysis, problem solving and project implementation.
- ARCH 220 History of Architecture I** 3 credits; Grading Method: REG-P/AUD  
0101 MTuWThF 11:00am-12:20pm Bldg. ARC, Room 1101 Vann, R  
Survey of Western architectural history to the Renaissance with consideration of parallel developments in the Eastern World.
- ARCH 221 History of Architecture II** 3 credits; Grading Method: REG-P/AUD  
0201 MTuWThF 11:00am-12:20pm Bldg. ARC, Room 1101 Vann, R  
Prerequisite: ARCH 220 or permission of the instructor. Survey of Western architectural history from the Renaissance to the Twentieth Century. With consideration of parallel developments in the Eastern World.

**ARCH cont.**

- ARCH 242 Drawing I** 2 credits; Grading Method: REG-P/AUD  
0101 TuTh 7:00pm-10:00pm Bldg. ARC, Room 1105 Staff  
0102 TuTh 7:00pm-10:00pm Bldg. ARC, Room 1123 Staff  
Introduces the student to basic techniques of sketching and use of various media.
- ARCH 312 Architectural Structures I** 3 credits; Grading Method: REG-P/AUD  
0101 Meets JUN 5 to AUG 25  
TuTh 7:00pm-8:30pm Bldg. ARC, Room 1101 Staff  
Prerequisites: MATH 120, and PHYS 122. REG-P/AUD. For ARCH majors only. Principles of behavior displayed in architectural structural systems, elements and materials; equilibrium and stability, distribution of forces and stresses, strength and stiffness. Resolutions of forces, reactions, movements, shears, deflection, and buckling of systems and elements.
- ARCH 408C Selected Topics in Architecture Studio: College Park Studio**  
3 credits; Grading Method: REG-P/AUD  
Prerequisite: ARCH 403 or equivalent.
- 0101 MWTh 1:00pm-5:00pm Bldg. ARC, Room 1105 Staff  
0201 MWTh 1:00pm-5:00pm Bldg. ARC, Room 1127 Staff  
Comprehensive building and urban design; studio options in advanced topical problems.
- ARCH 470 Computer Applications in Architecture** 3 credits; Grading Method: REG-P/AUD  
Permission of department required.
- 0101 TuTh 7:00pm-10:00pm Bldg. ARC, Room 1115 O'Konski, A  
Prerequisite: ARCH 400 or permission of instructor. Introduction to computer programming and utilization, with emphasis on architectural applications.
- ARCH 479 Independent Studies in Architecture** 1-4 credits; Grading Method: REG-P/AUD  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- ARCH 488C Selected Topics in Architectural Preservation: Selected Topics Cape May Workshop**  
3 credits; Grading Method: REG-P/AUD  
Permission of department required. Course is conducted at Hotel Chalfonte, Cape May, New Jersey.
- 0101 Meets MAY 29 to JUN 14  
Time Arranged Room Arranged Fogle, D

**AREC****AGRICULTURE AND RESOURCE ECONOMICS (AGRICULTURE)**

- AREC 365 World Hunger, Population, and Food Supplies** 3 credits; Grading Method: REG-P/AUD  
Meets USP Advanced Studies Analysis of Human Resources requirement.
- 0101 MTuWThF 9:30am-10:50am Bldg. HJP, Room 2242 Russell, J  
An introduction to the problem of world hunger and possible solutions to it. World demand, supply, and distribution of food. Alternatives for leveling off world food demand, increasing the supply of food, and improving its distribution. Environmental limitations to increasing world food production.
- AREC 399 Special Problems 1-2 credits; Grading Method: REG-P/AUD**  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- AREC 699 Special Problems in Agricultural and Resource Economics**  
1-2 credits; Grading Method: REG/AUD
- 0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- AREC 799 Master's Thesis Research** 1-6 credits; Grading Method: REG  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- AREC 899 Doctoral Dissertation Research** 1-8 credits; Grading Method: REG  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff

**ARHU****ARTS AND HUMANITIES (ARTS AND HUMANITIES)**

- ARHU 386 Field Work** 1-3 credits; Grading Method: REG-P/AUD  
Permission of department required. ARHU 386 and ARHU 387 must be taken concurrently.
- 0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- ARHU 387 Field Work Analysis** 1-3 credits; Grading Method: REG-P/AUD  
Permission of department required. ARHU 387 and ARHU 386 must be taken concurrently.
- 0101 Time Arranged Room Arranged DiPeolo, T  
0201 Time Arranged Room Arranged DiPeolo, T

**ARTH****ART HISTORY (ARTS AND HUMANITIES)**

- ARTH 100 Introduction to Art** 3 credits; Grading Method: REG-P/AUD  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- 0101 MTuWThF 9:30am-10:50am Bldg. ASY, Room 1213 Waller, D  
0201 MTuWThF 9:30am-10:50am Bldg. ASY, Room 1213 Firmani, D  
Major approaches to understanding the visual arts, art includes analysis of techniques, subject matter, and form. Painting, sculpture, architecture, and the graphic arts.
- ARTH 260 History of Art** 3 credits; Grading Method: REG-P/AUD  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- 0101 MTuWThF 12:30pm-1:50pm Bldg. ASY, Room 1213 Spiro, M  
A survey of western art as expressed through architecture, sculpture and painting. Prehistoric times to Renaissance.
- ARTH 261 History of Art** 3 credits; Grading Method: REG-P/AUD  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- 0101 MTuWThF 11:00am-12:20pm Bldg. ASY, Room 1213 Derry, D  
0201 MTuWThF 11:00am-12:20pm Bldg. ASY, Room 1213 Johnson, L  
A survey of western art as expressed through architecture, sculpture and painting from Renaissance to the present.
- ARTH 262 Arts of Asia** 3 credits; Grading Method: REG-P/AUD  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- 0201 MTuWThF 12:30pm-1:50pm Bldg. ASY, Room 1213 Sandier, M  
The history of South and East Asian art from prehistory through the mid 19th century.
- ARTH 320 Masterpieces of Painting** 3 credits; Grading Method: REG-P/AUD  
0101 MTuWThF 2:00pm-3:20pm Bldg. ASY, Room 3215 Denny, D  
A study of the contributions of a few major painters, ranging from Giotto to Titian.



**FORM BOOKLET CONTENTS:**

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**GUIDELINES FOR COURSE SELECTION**

Courses with multiple sections may be offered in both summer sessions. The session for which a specific section is scheduled is designated by the first two digits of the section number: 01 for Summer Session I; 02 for Summer Session II.

If the course or section meeting dates deviate from the regular Summer Session dates, the specific starting and ending dates are displayed below the title for the course. The section number indicates the session to which a nonstandard course or section belongs for registration purposes.

Below are 3 examples of typical course listings in the schedule of classes. In using the registration forms students should take care that the form for the proper session is completed: the Session I form is for course sections beginning with 01; the Session II form is for course sections beginning with 02.

USE OF THE WRONG FORM WILL INVALIDATE THE REGISTRATION

Additional information on nonstandard date courses may be found on page 6 of the catalog. In many instances registration, billing and grading procedures will be different for these courses.

1. **ECON 205 Fundamentals of Economics** 3 credits, grading method Reg P-F/Aud  
 USP Distributive Studies (D) Soc and Behavioral Sciences Approved Courses  
 0101 MTuWThF8 Bldg. G, Rm. 3118 Staff  
 0102 MTuWThF11 Bldg. GG, Rm. 3111 Staff  
 0201 MTuWThF9.30 Bldg. GG, Rm. 3109 Staff

*IN THIS EXAMPLE, SECTIONS 0101 AND 0102 MEET DURING SUMMER SESSION I FIVE DAYS PER WEEK AT THE TIMES INDICATED. SECTION 0201 MEETS DURING THE SECOND SUMMER SESSION FIVE DAYS PER WEEK AT THE TIME INDICATED. SECTION 0101 MEETS IN BUILDING G (JOURNALISM BUILDING) AND SECTIONS 0102 AND 0201 MEET IN BUILDING GG (COLE STUDENT ACTIVITIES BLDG). BUILDING CODES ARE LISTED WITH THE MAP AT THE BACK OF THIS CATALOG.*

2. **DANC 100 Modern Dance I for Non-Majors** 2 credits; grading method. Reg P-F/Aud  
 0102-12 Jun-24 Jun  
 0101 MTuWThF9.30 Bldg. W, Rm. 2102 Rosen, M  
 0102 MTuWThF11 Bldg. EE, Rm. 1115 Owens, G  
 Basic principles of modern dance, emphasizing fundamentals of movement.

*IN THIS EXAMPLE, SECTION 0101 MEETS FOR THE ENTIRE SUMMER SESSION I FIVE DAYS PER WEEK AT THE TIME INDICATED. SECTION 0102 BEGINS JUN 12 AND ENDS JUN 24 – THIS IS A NON-STANDARD DATE COURSE FOR SUMMER SESSION I.*

3. **MUSC 448B Special Topics in Music Vocal Production and Repertoire** 3 credits; grading method: Reg/Aud  
 0201 – 11 Jul – 28 Jul  
 0201 MTuWThF9-12 Bldg. NN, Rm. 2123 Fleming, L

*IN THIS EXAMPLE, THIS COURSE IS A NON-STANDARD DATE COURSE WHICH IS OFFERED BETWEEN JULY 11 AND JULY 28. THIS IS A SUMMER SESSION II COURSE AND THE SESSION II REGISTRATION FORM MUST BE USED.*

Any course that has the note "BY PERMISSION ONLY" requires a Department Stamp next to your course listing(s) on the Schedule Request Form. This stamp must be obtained from the Department offering the course prior to registration for the course.

SUMMER SESSION FORM BOOKLET

# LIVE ON CAMPUS THIS SUMMER!



*Enjoy living on campus this summer in apartments with single and double bedrooms accommodating four or six students. Apartments are fully furnished, with carpeting and the comfort of air-conditioning. Apartments include full kitchens.*

*Take a break from studying with the recreational facilities nearby. Tennis, basketball and volleyball are available for your enjoyment, or relax in the Community Center offering video games, snacks, laundry facilities and telephones.*



**Early reservations are advised, see the Summer Residence Halls Agreement, pages 15-16.**

# NON-DEGREE APPLICATION FOR GRADUATE ADMISSION



The Graduate School  
University of Maryland/UMCP  
College Park, Maryland 20742

A non-refundable fee of U.S. \$25.00 must accompany the application.  
Incomplete application will be returned.

Are you claiming Maryland residency?  yes  no (If yes, complete the back of this application)

Have you ever applied to our Graduate School before either as an Advanced Special or Degree Seeking Student?  yes  no Year \_\_\_\_\_

Do you qualify for the Golden I.D. fee waiver?  yes  no

SOCIAL SECURITY NUMBER

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G	R	A	D
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SUMMER TERM 1989
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Name: Last Name \_\_\_\_\_ First \_\_\_\_\_ Middle \_\_\_\_\_ Other \_\_\_\_\_

Present Address: Street \_\_\_\_\_ City \_\_\_\_\_ State or Country \_\_\_\_\_ Zip Code \_\_\_\_\_ MD County \_\_\_\_\_ Phone Numbers  
Home: \_\_\_\_\_  
Work: \_\_\_\_\_

Please check one criterion

\_\_\_\_\_ Visiting Graduate  
\_\_\_\_\_ Institute

\_\_\_\_\_ Advanced Special Student  
(check one criterion)

\_\_\_\_\_ a Bachelor Degree with 3.0 gpa  
\_\_\_\_\_ b Masters or Doctoral Degree  
\_\_\_\_\_ c Bachelor Degree (4 yrs out)  
\_\_\_\_\_ d Test Scores

Citizenship \_\_\_\_\_ U.S. \_\_\_\_\_ Non-U.S.

Non-U.S. Citizens or Permanent Immigrants

Country of Citizenship \_\_\_\_\_

City and Country of Birth \_\_\_\_\_

Type of Visa \_\_\_\_\_

Permanent Alien Registration # \_\_\_\_\_

Date of Issue \_\_\_\_\_

The information in this item is solely for the purpose of determining compliance with Federal civil rights law Your response will not affect consideration of your application.

Birthdate \_\_\_\_\_ (mmddyy)  
Sex: Male \_\_\_\_\_  
Female \_\_\_\_\_

Race: \_\_\_\_\_ American Indian/Native Indian \_\_\_\_\_ Hispanic  
\_\_\_\_\_ Black, not of Hispanic origin \_\_\_\_\_ White  
\_\_\_\_\_ Asian Pacific Islander

List in chronological order, all colleges, universities or other institutions of higher learning which you have attended, including the University of Maryland. Attach official transcript if required for admission as an Advanced Special Student. Visiting graduate students must submit a letter of permission from the applicant's Dean indicating that the applicant is in good standing.

INCODE	Name of Inst.	Location	From	To	Major	Degree	Date Awarded/ Expected	Overall Average

If appropriate, please complete the following and have the testing agency send OFFICIAL test results to the Graduate School. If you have not taken the required examination, indicate when you plan to do so. Our institutional code is 5814

Graduate Record General (Aptitude) (GRE) Date \_\_\_\_\_ Verbal \_\_\_\_\_ Quantitative \_\_\_\_\_ Analytical \_\_\_\_\_

Miller Analogies Test (MAT) Date \_\_\_\_\_ Score \_\_\_\_\_

Graduate Management Admissions Test (GMAT) Date \_\_\_\_\_ Score \_\_\_\_\_

Test of English as a Foreign Language (TOEFL) Date \_\_\_\_\_ Score \_\_\_\_\_

DEC \_\_\_\_\_ DECDATE \_\_\_\_\_ TERMDATE \_\_\_\_\_ PROV1 \_\_\_\_\_ ORIG1 \_\_\_\_\_ CODER \_\_\_\_\_ KEY \_\_\_\_\_

List any work and military experiences (major categories and time periods only) for the past two years.

TITLE OR PERSON	EMPLOYER	STATE	FROM	TO

**MARYLAND RESIDENTS ONLY**

The following information is used to determine your eligibility for in-state status for admission and tuition purposes. The University reserves the right to request additional information if necessary.

YES NO

- 1. For the most recent 12 months has another person(s) provided half or more than half your support?
- 2. Have you been, or will you be claimed as a dependent by another person(s) on federal and/or state income tax returns for any of the following years? 1988? YES  NO  1989? YES  NO
- 3. If the answer to 1 and/or 2 is yes, indicate name of person who has provided financial support or is claiming you as a dependent.  
Name \_\_\_\_\_ Relationship to applicant \_\_\_\_\_

If you, the applicant, answered "NO" to questions 1 and 2, please complete the following.  
\*\*\*\*IN ALL OTHER CASES\*\*\*\*

The person listed in question 3 should complete the following.

- 4. Are you or your spouse a full-time member of the U.S. Armed Forces?  
If yes, you may omit questions 5-16. Please attach a photocopy of most recent orders.
  - 5. Current Residence \_\_\_\_\_  
Street Address Apt. # City County State Zip M / D / Y M / D / Y  
(Dates Occupied)
  - 6. Previous Residence \_\_\_\_\_  
Street Address Apt. # City County State Zip M / D / Y M / D / Y
  - 7. Do you own any property outside of Maryland? Date of acquisition \_\_\_\_\_  
If yes, for what purpose do you hold such property? \_\_\_\_\_
  - 8. Are you a citizen of the United States?  
If no, type of visa \_\_\_\_\_ Alien Registration Number \_\_\_\_\_  
Date visa issued \_\_\_\_\_ Expiration date of visa \_\_\_\_\_
  - 9. Are you registered to vote?  
a. If yes, in what state/country? \_\_\_\_\_ b. Date of registration \_\_\_\_\_
  - 10. Do you possess a valid driver's license?  
a. If yes, in what state was it issued? \_\_\_\_\_ b. Date of issue \_\_\_\_\_
  - 11. Do you own a motor vehicle(s)?  
a. If yes, registered in what state \_\_\_\_\_ b. Date of registration \_\_\_\_\_
  - 12. Do you have the use of a motor vehicle registered in another person's name?  
If yes, indicate the name and relationship of person \_\_\_\_\_
  - 13. Have you paid Maryland income tax for the most recent year on all earned income including all taxable income earned outside the State?  
If no, please state reason \_\_\_\_\_
  - 14. List actual years and state in which you have filed a tax return in the last 3 years \_\_\_\_\_  
(State/Country Tax Year) (State/Country Tax Year) (State/Country Tax Year)
  - 15. If employed, is Maryland income tax being withheld?
  - 16. Did you give a Maryland home address on most recent federal and state income tax forms?
  - 17. Do you receive any type of financial aid (loans, scholarships, grants) from a state other than Maryland?
- YES NO If yes, from which state \_\_\_\_\_

I certify that the information submitted in this application is complete and accurate to the best of my knowledge. I agree to abide by the rules, policies and regulations of the University of Maryland if I am admitted as a student.

Signature \_\_\_\_\_ Date \_\_\_\_\_

# University of Maryland College Park Campus

## Undergraduate Application for **Summer Only**

**Do not use this application to apply for reinstatement or to apply as a degree seeking student.**

Please confine name and address to the spaces provided. Abbreviate where necessary and leave a space between name and initial (if used). DO NOT WRITE IN SHADED SPACES

1. 

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U.S. Social Security Number

2. 

--	--	--

Last Name First Name Middle Name

3. 

--	--	--	--

Number & Street of Present Mailing Address City State Zip Code

4. 

--	--	--	--	--	--

County Country Area Code & Telephone Number

5.  Male  Female

6. Length of time you've occupied the above address M D Y M D Y Former Name 7. 

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M D Y  
Birthdate

8. Please check the appropriate box below:

- White, not of Hispanic Origin  Asian or Pacific Islander  American Indian or Alaskan Native  
 Black, not of Hispanic Origin  Hispanic

RA	GEOG	CITZ	APPFEE				
0	6	8	9	9	9	9	9
UGTERM				COUST			

9. Are you a United States citizen?  Yes  No If no, please complete the following:

Country of birth \_\_\_\_\_ Country of citizenship \_\_\_\_\_ Type of visa \_\_\_\_\_

Alien registration number \_\_\_\_\_ Date issued \_\_\_\_\_ Date of expiration \_\_\_\_\_

10. Please read instructions on page 8 and check one admission status:

- a. high school graduate.  
 b. visitor from another college university.  
 c. college university graduate.  
 d. former UMCP student who was in good standing or on academic probation at the conclusion of your last semester

3
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UG TYPE ENSTAT

11. Have you previously applied for admission to the University of Maryland?  Yes  No

If yes, which campus?  UMAB  UMBC  UMCP  UMES  UMUC

Type of program: Term Year Applied For Dates of Attendance

Undergraduate \_\_\_\_\_  
 Graduate \_\_\_\_\_

12. List the high school from which you graduated or expect to graduate. Also list all colleges and universities previously attended, including U. of MD. Failure to list all institutions previously attended may result in cancellation of admission and any registration

Name of Institution	Location City, State	Attendance Dates Month and Year		Grad Date	
		From	Through		
Secondary School or GED					Credits Earned
College/University					Degree Obtained
College/University					

High School 

--	--	--	--	--	--

  
College Board Code

--	--	--	--	--	--

  
Previous Institution Code

13. Are you currently attending the last institution mentioned?  Yes  No

14. Are you in good academic standing at all previous institutions?  Yes  No If no, please explain \_\_\_\_\_

**MARYLAND RESIDENTS ONLY**

The following information is used to determine your eligibility for in-state status for admission and tuition purposes. The University reserves the right to request additional information if necessary.

YES NO

15. For the most recent 12 months has another person(s) provided half or more than half your support?
16. Have you been, or will you be claimed as a dependent by another person(s) on federal and/or state income tax returns for any of the following years? 1987? YES  NO  1988? YES  NO
17. If the answer to 15 and/or 16 is yes, indicate name of person who has provided financial support or is claiming you as a dependent.  
Name \_\_\_\_\_ Relationship to applicant \_\_\_\_\_

If you, the applicant, answered "NO" to questions 15 and 16, please complete the following.

\*\*\*\*IN ALL OTHER CASES\*\*\*\*

The person listed in question 17 should complete the following.

18. Are you or your spouse a full-time employee of the University?  
If yes, you may omit questions 19-32. Please attach a letter from your personnel office confirming full-time employment.  
(Dates Occupied) \_\_\_\_\_
19. Current Residence \_\_\_\_\_  
Street Address Apt. # City County State Zip M / D / Y M / D / Y  
(Dates Occupied) \_\_\_\_\_
20. Previous Residence \_\_\_\_\_  
Street Address Apt. # City County State Zip M / D / Y M / D / Y
21. Do you own any property outside of Maryland? Date of acquisition \_\_\_\_\_  
If yes, for what purpose do you hold such property? \_\_\_\_\_
22. Are you a citizen of the United States?  
If no, type of visa \_\_\_\_\_ Alien Registration Number \_\_\_\_\_  
Date visa issued \_\_\_\_\_ Expiration date of visa \_\_\_\_\_
23. Are you registered to vote?  
a. If yes, in what state/country? \_\_\_\_\_ b. Date of registration \_\_\_\_\_
24. Do you possess a valid driver's license?  
a. If yes, in what state was it issued? \_\_\_\_\_ b. Date of issue \_\_\_\_\_
25. Do you own a motor vehicle(s)?  
a. If yes, registered in what state? \_\_\_\_\_ b. Date(s) of registration \_\_\_\_\_
26. Do you have the use of a motor vehicle registered in another person's name?  
If yes, indicate name and relationship of person \_\_\_\_\_
27. Have you paid Maryland income tax for the most recent year on all earned income including all taxable income earned outside the State?  
If no, please state reason \_\_\_\_\_
28. List actual years and state in which you have filed a tax return in the last 3 years: \_\_\_\_\_  
(State Country Tax Year) (State Country Tax Year) (State Country Tax Year)
29. If employed, is Maryland income tax being withheld?
30. Did you give a Maryland home address on most recent federal and state income tax forms?
31. Do you receive any type of financial aid (loans, scholarships, grants) from a state other than Maryland?  
If yes, from which state \_\_\_\_\_
32. Are you or your spouse a full-time member of the U.S. Armed Forces?

YES NO

Sign

Sign

Sign

By signing below, high school graduates and students currently enrolled in colleges other than the University of Maryland College Park Campus certify that they meet requirements for admission for the summer session(s). To be eligible for admission for the summer session(s), a high school graduate must have graduated with an overall "C" average in academic subjects. Applicants currently attending (or attended in the past) another college or university must be in good standing at that institution and have the permission of the parent institution to enroll for the summer session.

I certify that I meet the requirements as listed above and that the information recorded on this form is correct. I understand that inaccurate or false information will result in my dismissal from the University. I also understand that this form does not place me into consideration for admission to the College Park Campus for the fall or spring terms.

Sign

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

RES	DEC.	CODE	DATE	EVAL.	DATE LT SENT







**ESTIMATED BILLING FORM INSTRUCTIONS:**

1. Add the number of credit hours on the Schedule Request Form. Only courses listed on that page should be included in this total.
2. Locate your status (undergraduate, graduate resident, graduate non-resident) on lines 1-4 above. (Please note: A "Graduate Student" is one who has been admitted to the Graduate School either at the University of Maryland or another institution. Students who have graduated from this or another institution are not considered graduate students until they have been admitted to the Graduate School. Any student not admitted to the Graduate School is classified as an Undergraduate. If you have any questions on this or your residence status, please call the Undergraduate Admissions Office, 454-4137 or the Graduate Records Office, 454-5428. The University reserves the right to make the final and official determination of the student's residence status.)
3. On the line next to your status circle the number of credit hours you have requested above. The number below the hours circled is your cost of tuition.
4. Enter the cost in the amount column on the right. If you are an Undergraduate Non-resident, enter the \$20.00 Non-resident Fee (line 2) in the amount column.
5. Line 5 lists mandatory fees charged to every student each summer session. The fees are therefore entered in the amount column for you.
6. If you are requesting On-Campus Housing, enter the appropriate amount for 6 weeks on line 6 in the amount column. If your course schedule requires other than 6 weeks residence, enter the number of weeks, calculate the amount and enter it in the amount column of line 7. Attach the Residence Halls Agreement tear-off portion to the Schedule Request and Estimated Bill Form.
7. If you wish to register a car for the summer, refer to line 8. Parking stickers must be picked up at the Motor Vehicle Administration Office on the campus. Note: UM students' stickers assigned the previous Fall semester are valid through August.
8. If this form is accompanied by an Application, you must also pay an Application Fee. If this pertains to you, enter the appropriate amount on line 9. Note: only one Application for Admission and one Application Fee is required for both summer sessions.
9. To determine the amount you owe the University add all charges entered in the amount column. Enter this total on line 10. Make a check for the amount owed payable to the University of Maryland. Write Student Social Security Number on face of check. You will be notified of any bill adjustments that are necessary. Payment must accompany the Estimated Bill Form.
10. Students entitled to credit on their bills (contract, scholarships, etc.) must attach a purchase order from the agency paying their fees and/or certifying documentation for the scholarship credit.
11. MONIES OWED THE UNIVERSITY WILL BE DEDUCTED FROM CHECKS RECEIVED PRIOR TO APPLICATION OF THE REMAINDER TO SUMMER SCHOOL TUITION. CHARGES INCURRED DURING THE SUMMER ARE PAYABLE IMMEDIATELY.
12. Enclose the Schedule Request and Estimated Bill Form (and if applicable: application and housing request) along with your check in the return envelope provided herein, or use the following address:

**Office of the Bursar  
Summer Mail-In Registration  
Room 1108 Lee Building  
University of Maryland  
College Park, Maryland 20742**

		ESTIMATED BILL FORM										AMOUNT	
Undergraduate Students		CREDIT HOURS											
		1	2	3	4	5	6	7	8	9	10		
1.	Tuition	99	198	297	396	495	594	693	792	891	990	\$	
2.	Non-Resident Undergraduate Fee (flat fee, not per cr. hr.)											\$20.00	\$
Graduate Students		CREDIT HOURS											
		1	2	3	4	5	6	7	8				
3.	Resident Tuition	117	234	351	468	585	702	819	936			\$	
4.	Non-Resident Tuition	207	414	621	828	1035	1242	1449	1656			\$	
5.	Mandatory Fees For All Students	Registration Fee										\$ 5	\$ 5.00
		Recreation Fee										\$ 8	\$ 8.00
		Health Fee										\$ 8	\$ 8.00
		Auxiliary Facilities Fee										\$ 8	\$ 8.00
6.	On-Campus Housing (attach Residence Halls Agreement Form)	Six Weeks										\$411.36	\$
7.		_____ Wks (at \$68.56 wk (must be at least 6 wk period))										\$	
8.	Vehicle Registration Fee: Campus Resident \$17; Commuter \$9 (choose one)											\$	
9.	Application Fee for New Students (non-refundable)											\$25	\$
10.	Special Fees (consult course listings)												\$
11.	<b>TOTAL BILL</b>											<b>\$</b>	

MAKE CHECKS PAYABLE TO UNIVERSITY OF MARYLAND. INCLUDE THE STUDENT SOCIAL SECURITY NUMBER ON CHECK

One check may be used to pay for both summer sessions. Add the "Total Bill" from both estimated bill forms to determine the total amount of your check

NOTE: Fees listed are subject to change at any time without advance notice.

All tuition and fees subject to adjustment

If you wish to use your credit card, check one and fill in:

MasterCard   
  VISA

\_\_\_\_\_

Customer Account Number

Effective Date \_\_\_\_\_ Expiration Date \_\_\_\_\_

Your Signature \_\_\_\_\_







### ESTIMATED BILLING FORM INSTRUCTIONS:

1. Add the number of credit hours on the Schedule Request Form. Only courses listed on that page should be included in this total.
2. Locate your status (undergraduate, graduate resident, graduate non-resident) on lines 1-4 above. (Please note: A "Graduate Student" is one who has been admitted to the Graduate School either at the University of Maryland or another institution. Students who have graduated from this or another institution are not considered graduate students until they have been admitted to the Graduate School. Any student not admitted to the Graduate School is classified as an Undergraduate. If you have any questions on this or your residence status, please call the Undergraduate Admissions Office, 454-4137 or the Graduate Records Office, 454-5428. The University reserves the right to make the final and official determination of the student's residence status.)
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Summer Mail-In Registration  
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University of Maryland  
College Park, Maryland 20742

### ESTIMATED BILL FORM

ESTIMATED BILL FORM											AMOUNT		
Undergraduate Students		CREDIT HOURS											
	1	2	3	4	5	6	7	8	9	10			
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2.	Non-Resident Undergraduate Fee (flat fee, not per cr. hr.)										\$20.00	\$	
Graduate Students		CREDIT HOURS											
	1	2	3	4	5	6	7	8					
3.	Resident Tuition	117	234	351	468	585	702	819	936			\$	
4.	Non-Resident Tuition	207	414	621	828	1035	1242	1449	1656			\$	
Mandatory Fees For All Students		Registration Fee		\$ 5	\$	5.00							
		Recreation Fee		\$ 8	\$	8.00							
		Health Fee		\$ 8	\$	8.00							
		Auxiliary Facilities Fee		\$ 8	\$	8.00							
On-Campus Housing (attach Residence Halls Agreement Form)		Six Weeks		\$411.36	\$								
		_____ Wks @ \$68.56 wk (must be at least 6 wk period)		\$									
Vehicle Registration Fee: Campus Resident \$17; Commuter \$9 (choose one)											\$		
Application Fee for New Students (non-refundable)											\$25	\$	
Special Fees (consult course listings)											\$		
<b>TOTAL BILL</b>											\$		



MAKE CHECKS PAYABLE TO UNIVERSITY OF MARYLAND. INCLUDE THE STUDENT SOCIAL SECURITY NUMBER ON CHECK.

One check may be used to pay for both summer sessions. Add the "Total Bill" from both estimated bill forms to determine the total amount of your check.

NOTE: Fees listed are subject to change at any time without advance notice.

All tuition and fees subject to adjustment

If you wish to use your credit card, check one and fill in:

 MasterCard   VISA

\_\_\_\_\_ Customer Account Number

Effective Date \_\_\_\_\_ Expiration Date \_\_\_\_\_

Your Signature \_\_\_\_\_





## How To Reserve On-Campus Summer Housing

**STUDY** the terms and conditions under which housing is offered. These are in the Summer Residence Halls Agreement below and on the reverse.

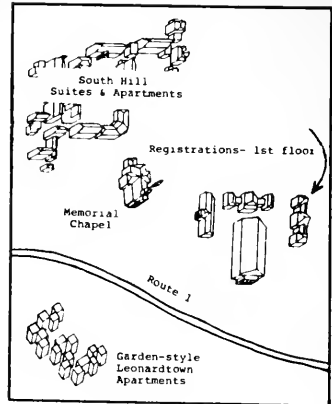
**COMPLETE** the Agreement form on the reverse and **sign your name**. Use this form only if your summer enrollment is at the College Park Campus (not University College).

**Do not complete the Agreement form if you will be enrolled and working this summer for Resident Life or Residential Facilities departments. Separate procedures apply; contact Resident Life at 454-2711 or 2100 Annapolis Hall for Instructions.**

**DETACH** the Agreement form at the dotted line and submit it with the appropriate housing payment to the Office of the Bursar. **Payment must be included.** The Agreement may be submitted along with the Schedule Request and Estimated Bill Form.

**SUBMIT the Agreement by April 28 (recommended) in order to receive priority consideration for your assignment preferences. Housing will be provided to all Interested Summer Sessions students, regardless of the date the Agreement is submitted.**

**KEEP** the Agreement below for your records and information. Notice of your actual assignment will be mailed by Resident Life about 10-14 days before the start of classes.



## SUMMER RESIDENCE HALLS AGREEMENT

When the Agreement Form within this booklet is signed by the resident and confirmed by the University this Agreement provides the resident with the opportunity to live in a University summer residence hall, subject to all terms stated below. The resident is also subject to responsibilities and processes set forth in the *Code of Student Conduct*, *Undergraduate Graduate Catalog*, *Summer Sessions Catalog*, and other relevant University documents.

The residence hall facilities are provided as a service and are unique to the University environment. Therefore, the relationship between the University and the resident, as described within this document, should not be construed to constitute a landlord/tenant relationship.

**ELIGIBILITY** Individuals must be properly registered for Summer Sessions coursework at the College Park Campus in order to be assigned and be eligible for the Summer Session housing fee of \$411.36 for each six-week session. Proof of payment, financial eligibility and proper registration may be required before Resident Life will confirm services at the stated fee and/or permit occupancy. No provisions are made for spouses or family members.

At Resident Life's discretion, other individuals may occupy a summer residence hall subject to a separate fee structure published annually by Resident Life, when these individuals are (a) UMCP students for the preceding spring or coming fall semesters, as demonstrated by a current Registration ID or proof of admission, or (b) students from another campus, college or university, or individuals of similar age and interests, who are visiting UMCP in pursuit of an educational goal and for whom written sponsorship has been provided by a Campus Department or faculty member, a faculty member or administrator from another educational institution, or an administrator of a government agency sponsoring an educational program. Proof of payment of established fees and of eligibility/sponsorship may be required before Resident Life will confirm services and/or permit occupancy.

**OCCUPANCY PERIODS** Housing may be requested for Session I only, Session II only, or for both Sessions I and II. In general, summer occupancy is scheduled from June 4, 1989 to August 25, 1989 for Session I and II registrants; from June 4, 1989 to July 14, 1989 for Session I only registrants and from July 16, 1989 to August 25, 1989 for Session II only registrants.

**ASSIGNMENT OF BUILDING AND ROOM** Summer accommodations are coeducational. Men and women are housed on separate floors or wings of a building or in separate apartment/suite units. Daily hours for visitation may extend to 24 hours. Resident Life does not discriminate in assignment on the basis of race, color, religion or national origin. Summer housing does not affect an individual's request for housing in any subsequent academic term.

An individual who has this Agreement confirmed by Resident Life will be assigned to and is obligated to accept a building and room designated by Resident Life. Available accommodations normally are in apartments (include kitchen and dining area) and suites (no kitchens, no cooking permitted). Both apartments and suites are fully furnished, and have carpeting, shared living room area, 1-2 baths, and single and/or double bedrooms. Individuals assigned to suites must maintain an approved meal program, as determined by the Department of Dining Services, for the full period of assignment to a suite.

Available spaces, especially singles, in each building type are limited. To assure that these spaces are assigned as equitably as possible, all signed and completed Agreements received by Resident Life by April 28 will be submitted to a lottery drawing. The lottery will determine priority for building and room types.

Agreements received after April 28 will be considered on a first-come, first-served basis for existing vacancies.

Building assignments normally are confirmed in advance of the first occupancy date. This confirmation is mailed to the applicant's local address not sooner than about three weeks before the first occupancy date or within 10 days when the Agreement has been submitted less than three weeks before the first occupancy date.

**LIABILITY** The University cannot and does not assume responsibility for personal accident, injury, or illness sustained by residents, guests or visitors, nor for the damage, theft, or loss of personal property. The resident releases the University, its officers, agents and employees from any liability on account of any accident, injury, illness, property damage, theft, or loss. The University recommends an insurance carrier of the individual's choice to assure protection against such harm or loss.

**UNIVERSITY SERVICES: SPACE, UTILITIES, HOUSEKEEPING, FURNISHINGS AND REPAIRS** This Agreement, when confirmed by the University, permits the individual to use residence hall facilities and receive services. Although the University will endeavor to provide the following services on a continual basis, interruptions may be necessitated by an act of God, an order of a University/civil authority, a limited or restricted control or availability of resources as determined by the University, maintenance activities, or any condition other than these that is reasonably beyond administrative control. Services are provided in accordance with standards and levels of service determined by the University. It is the expectation of the University that services will be available and uninterrupted and that any disruption of services vital to the health and safety of residents will be restored within a reasonable time.

The University will furnish a space in a residence hall and will grant the resident use of the facilities of the hall in accordance with terms and conditions specified within this Agreement.

The University will provide heat, water, and electricity. The University is responsible for cleaning only the designated common areas on a scheduled basis.

The University will provide to each resident one bed, one mattress and cover, one dresser, and one desk and chair set. The University will provide each bed/study room with a mirror, window shade, window screen, and smoke detector.

The University will make all repairs and perform maintenance in the residence hall and the resident's room through authorized personnel. Repairs to the room or University furnishings will occur upon request or in accordance with routine schedules. Repairs and maintenance activities shall be conducted under a system of priority scheduling.

**CARE OF FACILITIES** The resident accepts responsibility for self and guest(s); for care of the residence hall facility, assigned space, common areas, and University property; and for promptly reporting any interruptions of service or needed repair.

The resident will take reasonable action to protect and prevent the building and property from wanton, reckless or negligent damage; will refrain from encouraging or participating in activities which cause damage; will report property or facilities damage; and will take reasonable action to assist the University in identifying individuals responsible for damage.

The resident, at the time of checkout, will return the assigned space and its University furnishings in the same condition as they were received, with the exception of reasonable wear and tear, as determined by Resident Life.

The resident assumes responsibility for the appropriate use of safety and security hardware within the assigned space and building and will immediately report loss of assigned keys).

**CONDUCT** The resident shall behave in a manner which facilitates a quiet, safe and secure residence hall environment conducive to the pursuit of academic goals.

The resident shall insure that the roommate will have access to and equitable use of the assigned space. The resident will abide by the rules, regulations, policies and procedures established by Resident Life and the University.

Rules and regulations are intended to promote the safety and well-being of residents. They include, but are not limited to, prohibitions against: (a) flammable materials; (b) weapons and firecrackers; (c) unauthorized modification of assigned space; (d) pets; (e) duplication and transfer of University keys; (f) disruptive/destructive behavior; (g) behavior such as intimidation or harassment which threatens the property, safety, security, health and well-being of others; (h) improper use of fire safety and building security equipment; (i) threats to and/or interference with University staff in the performance of their duties.

Violation of rules and regulations as well as violations of probationary status can constitute grounds for termination of the Agreement. When determined by Resident Life that an individual has violated state or federal laws and/or University rules and regulations, and when such conduct indicates that the individual's residence in University residence halls constitutes a threat to the safety, health, or well-being of community members, disciplinary and/or administrative action, including the termination of this Agreement, may be pursued.

The resident shall be responsible for familiarity with all rules and regulations, the behaviors which can result in the termination of the Agreement, and the adjudication procedures. Information may be found in the *Code of Student Conduct*.

**USE OF ASSIGNED SPACE** The resident agrees (a) to live only in the space officially assigned, (b) not to sublet or otherwise use or grant use of the assigned space, residence hall common areas, or grounds for any unauthorized purpose, and (c) not to sell, solicit or conduct a business enterprise therein without the written permission of the Department of Resident Life.

If a vacancy occurs in the assigned room, the remaining resident(s) agrees to follow established procedures for the reassignment of another student to that space.

When vacating an assigned space, regardless of reason, the resident agrees to complete established checkout procedures.



**ARTH cont.**

<b>ARTH 386</b>	<b>Field Work 1-3 credits; Grading Method: REG-P-F-AUD</b> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTH 387</b>	<b>Field Work Analysis 1-3 credits; Grading Method: REG-P-F-AUD</b> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTH 450</b>	<b>20th Century Art 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 9:30am-10:50am	Bldg. ASY, Room 3215	Wyss, E
	Painting, sculpture and architecture from the late 19th century to 1920.		
<b>ARTH 451</b>	<b>20th Century Art 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 11:00am-12:20pm	Bldg. ASY, Room 3215	Peters-Campbell, J
0201	Time Arranged	Room Arranged	Staff
	Painting, sculpture and architecture from 1920 to the present.		
<b>ARTH 476</b>	<b>History of American Art to 1900 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 2:00pm-3:20pm	Bldg. ASY, Room 3215	Storr, S
0201	Time Arranged	Room Arranged	Staff
	Art styles among the segmentary, centralised and nomadic people of Africa. The iconography and function of their art and its relationship to their various societies, cults and ceremonies		
<b>ARTH 498</b>	<b>Directed Studies in Art History I 1-2-3 credits; Grading Method: REG-P-F-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTH 499</b>	<b>Directed Studies in Art History II 2-3 credits; Grading Method: REG-P-F-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTH 698</b>	<b>Directed Graduate Studies in Art History 3 credits; Grading Method: REG-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTH 699A</b>	<b>Special Topics In Art History: The Art and Archaeology of Mosaics 3 credits; Grading Method: REG-AUD</b>		
	Permission of department required.		
0101	MWF 3:30pm-6:00pm	Bldg. ASY, Room 4206 (DIS)	Spiro, M
<b>ARTH 699B</b>	<b>Special Topics In Art History: Buddhist Iconography 3 credits; Grading Method: REG-AUD</b>		
	Permission of department required.		
0201	MWF 3:30pm-6:00pm	Bldg. ASY, Room 4206 (DIS)	Sandler, M
<b>ARTH 798</b>	<b>Directed Graduate Studies in Art History 3 credits; Grading Method: REG-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTH 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTH 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ARTS**

**ART STUDIO (ARTS AND HUMANITIES)**

<b>ARTS 100</b>	<b>Elements of Design 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 3:00pm-5:00pm	Bldg. ASY, Room 2314 (LAB)	Staff
0201	MTuWThF 9:30am-11:30am	Bldg. ASY, Room 2314 (LAB)	Craig, P
	Principles and elements of design through manipulation and organization of materials in two and three dimensions		
<b>ARTS 110</b>	<b>Elements of Drawing 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 8:00am-10:30am	Bldg. ASY, Room 2317 (LAB)	Niese, H
0201	MTuWThF 12:30pm-3:00pm	Bldg. ASY, Room 2317 (LAB)	Craig, P
	An introductory course with a variety of media and related techniques Problems based on still life, figure and nature.		
<b>ARTS 200</b>	<b>Intermediate Design 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 3:00pm-5:00pm	Bldg. ASY, Room 2318 (LAB)	Staff
0201	MTuWThF 9:30am-11:30am	Bldg. ASY, Room 2318 (LAB)	Craig, P
	Prerequisites: ARTS 100, 110. A continuation of Design I with more individually structured problems in terms of form, composition and meaning.		
<b>ARTS 206C</b>	<b>Design: Figure Modeling 3 credits; Grading Method: REG-P-F-AUD</b>		
0201	MTuWThF 12:30pm-3:00pm	Bldg. ASY, Room 1310 (LAB)	Blotner, P
<b>ARTS 210</b>	<b>Intermediate Drawing 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 8:00am-10:30am	Bldg. ASY, Room 2321 (LAB)	Niese, H
0201	MTuWThF 12:30pm-3:00pm	Bldg. ASY, Room 2321 (LAB)	Craig, P
	Prerequisites: ARTS 100 and 110. Emphasis on understanding organic form, as related to study from the human figure and to pictorial composition.		
<b>ARTS 320</b>	<b>Elements of Painting 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 12:30pm-3:00pm	Bldg. ASY, Room 3322 (LAB)	Klank, R
	Prerequisite: ARTS 210. Basic tools and language of painting. Oil and/or water-based paints.		
<b>ARTS 334</b>	<b>Elements of Sculpture: Construction 3 credits; Grading Method: REG-P-F-AUD</b>		
0201	MTuWThF 3:00pm-5:30pm	Bldg. ASY, Room 1310 (LAB)	Blotner, P
	Prerequisite: ARTS 210. Basic techniques and processes related to metals, plastics, fiberglass, and wood construction		
<b>ARTS 418</b>	<b>Drawing 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 8:00am-10:30am	Bldg. ASY, Room 2321 (LAB)	Niese, H
0201	MTuWThF 12:30pm-3:00pm	Bldg. ASY, Room 2321 (LAB)	Craig, P
<b>ARTS 428</b>	<b>Painting 3 credits; Grading Method: REG-P-F-AUD</b>		
	Repeatable up to 12 credits.		
0101	MTuWThF 12:30pm-3:00pm	Bldg. ASY, Room 3322 (LAB)	Klank, R
<b>ARTS 498</b>	<b>Directed Studies in Studio Art 2-3 credits; Grading Method: REG-P-F-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTS 898</b>	<b>Directed Graduate Studies in Studio Art 3 credits; Grading Method: REG-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTS 798</b>	<b>Directed Graduate Studies in Studio Art 3 credits; Grading Method: REG-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ARTS 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ASTR**

**ASTRONOMY (COMP, MATH, AND PHYS SCI)**

<b>ASTR 100</b>	<b>Introduction to Astronomy 3 credits; Grading Method: REG-P-F-AUD</b> Course meets University Studies Program Distributive Studies non-lab science and mathematics requirement. If ASTR 110 or 111 are taken at the same or at a later time, the combination may be counted as lab science requirement.		
0101	MTuWThF 9:30am-10:50am	Bldg. CSS, Room 1113	Harrington, J
0201	MTuWThF 9:30am-10:50am	Bldg. CSS, Room 1113	Mathews, T
	An elementary course in descriptive astronomy, especially appropriate for non-science students. Sun, moon, planets, stars and nebulae, galaxies, evolution. Credit for ASTR 100 cannot be obtained after, or simultaneously with, receiving credit for any astronomy course numbered 150 or higher.		
<b>ASTR 110</b>	<b>Astronomy Laboratory 1 credit; Grading Method: REG-P-F-AUD</b>		
0101	TuTh 1:00pm-3:00pm	Bldg. CSS, Room 1109 (LAB)	Staff
0201	TuTh 1:00pm-3:00pm	Bldg. CSS, Room 1109 (LAB)	Staff
	Prerequisite: previous or concurrent enrollment in ASTR 100. Exercises include use of photographs of moon, stars, nebulae and galaxies and spectra, experiments demonstrating scientific concepts used in astronomy Daytime and nighttime observations if weather permits. Appropriate for non-science majors.		
<b>ASTR 288</b>	<b>Special Projects in Astronomy 1-3 credits; Grading Method: REG-P-F-AUD</b>		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ASTR 330</b>	<b>Solar System Astronomy 3 credits; Grading Method: REG-P-F-AUD</b> Meets USP Advanced Studies Development of Knowledge requirement.		
0101	MTuWThF 12:30pm-1:50pm	Bldg. CSS, Room 1113	Harrington, J
	Prerequisite: ASTR 100 and completion of University Studies requirement in the natural science, or consent of instructor. Designed primarily for non-physical-science majors. The structure of planets and of their atmospheres, the nature of comets, asteroids, and satellites. Comparison of various theories for the origin of the solar system. Emphasis on a description of recent data and interpretation.		
<b>ASTR 380</b>	<b>Life in the Universe 3 credits; Grading Method: REG-P-F-AUD</b> Meets USP Advanced Studies Development of Knowledge requirement.		
0201	MTuWThF 12:30pm-1:50pm	Bldg. CSS, Room 1113	Mathews, T
	Prerequisite: ASTR 100 and completion of University Studies requirement in the natural science, or consent of instructor. Designed primarily for non-physical-science majors. Study of the astronomical perspective on the conditions for the origin and existence of life. Communication with extraterrestrial life.		
<b>ASTR 498</b>	<b>Special Problems in Astronomy 1-6 credits; Grading Method: REG-P-F-AUD</b>		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ASTR 699</b>	<b>Special Problems in Advanced Astronomy 1-6 credits; Grading Method: REG-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ASTR 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ASTR 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**BCHM**

**BIOCHEMISTRY (LIFE SCIENCES)**

<b>BCHM 261</b>	<b>Elements of Biochemistry 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 9:30am-10:50am	Bldg. CHM, Room 1402	Staff
	Prerequisite: CHEM 104 or 233 or 235. For undergraduate students who desire a one-semester biochemistry course rather than the two-semester sequence. Basic chemistry and metabolism of most molecules of biological importance. Not open to students with credit in BCHM 461.		
<b>BCHM 461</b>	<b>Biochemistry I 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MTuWThF 9:30am-10:50am	Bldg. CHM, Room 1407	Staff
	Prerequisites: CHEM 243 or 245; or permission of instructor. A comprehensive introduction to general biochemistry. The chemistry and metabolism of carbohydrates, lipids, nucleic acids, and proteins.		
<b>BCHM 462</b>	<b>Biochemistry II 3 credits; Grading Method: REG-P-F-AUD</b>		
0201	MTuWThF 9:30am-10:50am	Bldg. CHM, Room 1407	Staff
	Prerequisite: BCHM 461. A continuation of BCHM 461.		
<b>BCHM 699</b>	<b>Special Problems in Biochemistry 1-6 credits; Grading Method: REG-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>BCHM 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>BCHM 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**BIOI**

**BIOLOGY (LIFE SCIENCES)**

<b>BIOI 106</b>	<b>Principles of Biology II 4 credits; Grading Method: REG-P-F-AUD</b> Meets USP Distributive Studies (B)Natural Sciences and Mathematics requirement		
0201	MTuWThF 11:00am-12:20pm	Bldg. ZOP, Room 1238	Kent, B
	TuWTh 5:00am-11:00am Bldg. ZOP, Room 0213 (LAB)		
0202	MTuWTh 11:00am-12:20pm	Bldg. ZOP, Room 1238	Kent, B
	TuWTh 1:00pm-4:00pm Bldg. ZOP, Room 0213 (LAB)		
	Basic principles of biology with special emphasis on organic, ecological and evolutionary biology for science majors		

**BMGT**

**BUSINESS AND MANAGEMENT (BUSINESS AND MANAGEMENT)**

<b>BMGT 110</b>	<b>Introduction to Business and Management 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MW 7:00pm-10:00pm	Bldg. LEF, Room 2166	Staff
0201	MTuWThF 9:30am-10:50am	Bldg. TYD, Room 1140	Staff
	A survey of the field of business, including its environment, organization, overall and functional management, and current issues and developments.		

**BMGT cont.**

<b>BMGT 220</b> <b>Principals of Accounting I 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:30am-10:50am	Bldg TYD, Room 1101	Loeb, M	Staff
0102 MTuWThF 10:50am-12:20pm	Bldg TYD, Room 1101	Loeb, M	Staff
0103 MW 7:00pm-10:00pm	Bldg TYD, Room 1101	Staff	Staff
0104 TuTh 7:00pm-10:00pm	Bldg LEF, Room 1211	Staff	Staff
0201 MTuWThF 9:30am-10:50am	Bldg TYD, Room 1127	Staff	Staff
0202 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1114	Staff	Staff
0203 MW 7:00pm-10:00pm	Bldg TYD, Room 1108	Staff	Staff
Suphomere standing Study of the basic principles of accounting for business enterprises.			
<b>BMGT 221</b> <b>Principals of Accounting II 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:00am-9:20am	Bldg TYD, Room 2106	Staff	Staff
0102 MTuWThF 9:30am-10:50am	Bldg TYD, Room 2106	Staff	Staff
0103 TuTh 7:00pm-10:00pm	Bldg TYD, Room 2106	Staff	Staff
0201 MTuWThF 2:00pm-3:20pm	Bldg TYD, Room 2106	Staff	Staff
0202 MW 7:00pm-10:00pm	Bldg TYD, Room 2106	Staff	Staff
Prerequisite: BMGT 220. Continuation of BMGT 220.			
<b>BMGT 230</b> <b>Business Statistics 3 credits; Grading Method: REG</b>			
0101 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 1102	Widham, W	Staff
0102 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1108	Ahn, S	Staff
0201 MTuWThF 9:00am-9:20am	Bldg TYD, Room 1128	Staff	Staff
0202 MTuWThF 9:30am-10:50am	Bldg TYD, Room 1128	Staff	Staff
0203 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1101	Staff	Staff
Prerequisite: MATH 220. Not open to students who have completed BMGT 231, ENEE 324, or STAT 400. Credit will be granted for only one of the following: AREC 484, BKOM 301, BMGT 230, CNEC 404, ECON 421, EDMS 451, GEOG 305, GYPT 422, PSYC 200, SOCY 200, URBS 350, or TEXT 400. Introductory course in probability and statistical concepts including descriptive statistics, set-theoretic development of probability, the properties of discrete and continuous random variables, sampling theory, estimation, hypothesis testing, regression, decision theory and the application of these concepts to problem solving in business and management. This course does not meet requirements for management science and statistics majors.			
<b>BMGT 231</b> <b>Statistical Models For Business 3 credits; Grading Method: REG</b>			
0101 TuTh 12:30pm-3:00pm	Bldg TYD, Room 1106	Ahn, S	Staff
Prerequisite: MATH 141 or permission of department. For management science and statistics majors. Credit will be granted for only one of the following: BMGT 231, ENEE 324, or STAT 400. An introductory course in statistical concepts including probability from a naive set theory approach, random variables and their properties, and the probability distributions of selected discrete and continuous random variables. The concepts of sampling, sampling distributions, and the application of these concepts to estimation and hypothesis testing are included as are brief surveys of the regression and anova models.			
<b>BMGT 301</b> <b>Introduction to Data Processing 3 credits; Grading Method: REG</b>			
0101 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 0111	Staff	Staff
0102 TuTh 4:00pm-7:00pm	Bldg TYD, Room 0112	Staff	Staff
0103 TuTh 7:00pm-10:00pm	Bldg TYD, Room 0102	Staff	Staff
0201 MTuWThF 9:00am-9:20am	Bldg TYD, Room 0111	Staff	Staff
0202 MTuWThF 9:30am-10:50am	Bldg TYD, Room 0102	Staff	Staff
0203 MW 7:00pm-10:00pm	Bldg TYD, Room 0111	Staff	Staff
Junior standing. The fundamentals of business data processing, organizational, environmental and managerial aspects of computer systems. Heavy emphasis on COBOL language. Limited coverage of other business computing languages including the report generator (RPG) language. Several programming projects assigned.			
<b>BMGT 302</b> <b>Information Systems Implementation Techniques 3 credits; Grading Method: REG</b>			
0201 MW 4:00pm-7:00pm	Bldg TYD, Room 1140	Staff	Staff
Prerequisite: BMGT 301. Advanced concepts and tools necessary for the construction of computer based information systems. Operating systems, data and storage structures, file processing and advanced features of the COBOL language. Techniques related to the overall development of software projects including project management, software design, engineering and software documentation. Several programming projects assigned.			
<b>BMGT 310</b> <b>Intermediate Accounting I 3 credits; Grading Method: REG</b>			
0101 MTuWThF 8:00am-9:20am	Bldg TYD, Room 0117	Huss, H	Staff
0102 MTuWThF 9:30am-10:50am	Bldg TYD, Room 0102	Huss, H	Staff
0103 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1140	Staff	Staff
0201 MTuWThF 9:00am-9:20am	Bldg TYD, Room 0117	Staff	Staff
Prerequisite: BMGT 221. Comprehensive analysis of financial accounting topics related to financial statement preparation and external reporting.			
<b>BMGT 311</b> <b>Intermediate Accounting II 3 credits; Grading Method: REG</b>			
0101 MTuWThF 2:00pm-3:20pm	Bldg TYD, Room 1132	Staff	Staff
0102 MW 7:00pm-10:00pm	Bldg TYD, Room 0111	Staff	Staff
0201 MTuWThF 9:30am-10:50am	Bldg TYD, Room 2110	Staff	Staff
Prerequisite: BMGT 310. Continuation of BMGT 310.			
<b>BMGT 321</b> <b>Cost Accounting 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:30am-10:50am	Bldg TYD, Room 2108	Staff	Staff
0102 TuTh 7:00pm-10:00pm	Bldg TYD, Room 2108	Staff	Staff
Prerequisite: BMGT 221. A study of the basic concepts of product costing and cost analysis for management planning and control. Emphasis is placed on the role of the accountant in organizational management, analysis of cost behavior, standard cost, budgeting, responsibility accounting, and relevant costs for decision making.			
<b>BMGT 323</b> <b>Income Tax Accounting 3 credits; Grading Method: REG</b>			
0101 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 1106	Staff	Staff
0201 MTuWThF 12:30pm-1:50pm	Bldg TYD, Room 0101	Staff	Staff
Prerequisite: BMGT 221. Introduction to federal income taxation of individuals. Examination of tax laws by use of illustrative examples and problems.			
<b>BMGT 326</b> <b>Accounting Systems 3 credits; Grading Method: REG</b>			
0101 TuTh 7:00pm-10:00pm	Bldg TYD, Room 2106	Staff	Staff
Prerequisites: BMGT 301; and BMGT 321. A study of the control aspects of accounting systems. Topics include: standard setting; administrative, operational, and security controls; cost effectiveness of systems; audit implications of a computer-based information environment.			
<b>BMGT 332</b> <b>Options Research For Management Decisions 3 credits; Grading Method: REG</b>			
0101 MW 12:30pm-3:00pm	Bldg TYD, Room 1128	Golden, B	Staff
0201 MTuWThF 9:30am-10:50am	Bldg TYD, Room 0111	Staff	Staff
Prerequisite: BMGT 230. Surveys the philosophy, techniques, and applications of operations research to managerial decision making. The course is designed primarily for students not majoring in management science or statistics. Techniques covered include: linear programming, transportation and assignment models, Markov processes, inventory and queuing models. Emphasis is placed on formulating and solving decision problems in the functional areas of management.			
<b>BMGT 340</b> <b>Business Finance 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:00am-10:50am	Bldg TYD, Room 0117	Staff	Staff
0102 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 1140	Staff	Staff
0103 TuTh 7:00pm-10:00pm	Bldg TYD, Room 2100	Soubra, B	Staff
0201 MTuWThF 9:30am-10:50am	Bldg TYD, Room 1116	Staff	Staff
0202 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1116	Chang, E	Staff
0203 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1114	Chang, E	Staff
Prerequisites: BMGT 221, and BMGT 230, or BMGT 231. The principles and practices involved in the organization, financing, and rehabilitation of business enterprises, the various types of securities and their uses in raising funds, opportunities in income, risk, and control, intercorporate relations; and new developments. Emphasis on solution of problems of financial policy faced by management.			

**BMGT cont.**

<b>BMGT 343</b> <b>Investments 3 credits; Grading Method: REG</b>			
0101 MTuWThF 11:00am-12:20pm	Bldg LEF, Room 1208	Chen, S	Staff
0102 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1101	Staff	Staff
0201 MW 7:00pm-10:00pm	Bldg TYD, Room 1132	Eun, C	Staff
Prerequisite: BMGT 340. An introduction to financial investments. Topics include securities and securities markets; investment risks, returns, and constraints; portfolio policies; and institutional investment policies.			
<b>BMGT 350</b> <b>Marketing Principles and Organization 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:30am-10:50am	Bldg TYD, Room 1102	Staff	Staff
0102 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 1101	Staff	Staff
0103 MW 9:30am-9:50am	Bldg TYD, Room 2118	Staff	Staff
0104 TuTh 7:00pm-10:00pm	Bldg TYD, Room 2118	Staff	Staff
0201 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 1108	Staff	Staff
0202 MTuWThF 12:30pm-1:50pm	Bldg TYD, Room 1108	Staff	Staff
0203 MW 9:30am-9:50am	Bldg KAN, Room 0124	Staff	Staff
Prerequisite: ECON 203, or ECON 205. An introductory course in the field of marketing. Its purpose is to give a general understanding and appreciation of the forces operating, institutions employed, and methods followed in marketing agricultural products, natural products, services and manufactured goods.			
<b>BMGT 354</b> <b>Promotion Management 3 credits; Grading Method: REG</b>			
0101 MW 7:00pm-10:00pm	Bldg TYD, Room 2108	Staff	Staff
Prerequisite: BMGT 350. Not open to students who have completed BMGT 452. The use of advertising, personal selling, sales promotions, and other methods in marketing programs. Case studies in the use and coordination of demand stimulation methods, analysis and planning. Research, testing and statistical control of promotional activities.			
<b>BMGT 360</b> <b>Personnel Management 3 credits; Grading Method: REG</b>			
0101 MTuWThF 8:00am-9:20am	Bldg TYD, Room 2108	Staff	Staff
0102 TuTh 4:00pm-7:00pm	Bldg TYD, Room 2108	Olian, J	Staff
0201 TuTh 3:00pm-6:00pm	Bldg TYD, Room 2108	Prackm, S	Staff
Junior standing. The basic course in personnel management includes manpower planning, recruitment, selection, development, compensation, and appraisal of employees. Explores the impact of scientific management and unions on these functions.			
<b>BMGT 362</b> <b>Labor Relations 3 credits; Grading Method: REG</b>			
0101 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 1102	Levine, M	Staff
Junior standing. A study of the development and methods of organized groups in industry with reference to the settlement of labor disputes. An economic and legal analysis of labor union and employer association activities, arbitration, mediation, and conciliation; collective bargaining, trade agreements, strikes, boycotts, lockouts, company unions, employee representation, and injunctions.			
<b>BMGT 364</b> <b>Management and Organization Theory 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:30am-10:50am	Bldg ASY, Room 3219	Levine, M	Staff
0102 MTuWThF 11:00am-12:20pm	Bldg ASY, Room 3219	Staff	Staff
0103 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1118	Bartol, K	Staff
0104 MW 7:00pm-10:00pm	Bldg TYD, Room 1218	Bartol, K	Staff
0201 MTuWThF 9:30am-10:50am	Bldg TYD, Room 1132	Staff	Staff
0202 TuTh 7:00pm-10:00pm	Bldg LEF, Room 2166	Staff	Staff
Junior standing. The development of management and organization theory, nature of the management process and function and its future development. The role of the manager as an organizer and director, the communication process, goals and responsibilities.			
<b>BMGT 370</b> <b>Principles of Transportation 3 credits; Grading Method: REG</b>			
0101 TuTh 7:00pm-10:00pm	Bldg TYD, Room 1132	Staff	Staff
0201 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 0101	Staff	Staff
Prerequisite: ECON 203; or ECON 205. A general course covering the five fields of transportation, their development, service, and regulation.			
<b>BMGT 372</b> <b>Traffic and Physical Distribution Management 3 credits; Grading Method: REG</b>			
0101 MTuWThF 11:00am-12:20pm	Bldg LEF, Room 2205	Post, F	Staff
0202 MW 7:00pm-10:00pm	Bldg LEF, Room 2205	Grimm, C	Staff
Junior standing. Not open to students who have completed BMGT 371. Examines the management aspects of the business firm in moving their raw materials and finished goods through traffic; warehousing, industrial packaging, materials handling, and inventory. A systematic examination of the trade-off possibilities and management alternatives to minimize cost of product flow and maximizing customer service is provided.			
<b>BMGT 380</b> <b>Business Law I 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:30am-10:50am	Bldg TYD, Room 0111	Staff	Staff
0102 MTuWThF 9:30am-10:50am	Bldg TYD, Room 1120	Staff	Staff
0103 TuTh 7:00pm-10:00pm	Bldg TYD, Room 0117	Staff	Staff
0201 MTuWThF 8:00am-9:20am	Bldg TYD, Room 2108	Staff	Staff
0202 TuTh 7:00pm-10:00pm	Bldg TYD, Room 2109	Staff	Staff
Legal aspects of business relationships. Examination of torts and business crimes, contracts and agency. The law of personal property and bailment relationships. Survey of public policy issues.			
<b>BMGT 381</b> <b>Business Law II 3 credits; Grading Method: REG</b>			
0101 MW 7:00pm-10:00pm	Bldg HJP, Room 1229	Staff	Staff
Prerequisite: BMGT 380 or permission of department. The Uniform Commercial Code including sales, commercial paper, secured transactions, title and documents of title. The law of partnerships and corporations. Reorganization and liquidation under the bankruptcy laws. The law of real property, landlord and tenant relationships and decedents' estates.			
<b>BMGT 386</b> <b>Field Work 1-3 credits; Grading Method: REG</b>			
Permission of department required.			
0101 Time Arranged	Room Arranged	Staff	Staff
0201 Time Arranged	Room Arranged	Staff	Staff
<b>BMGT 387</b> <b>Field Work Analysis 1-3 credits; Grading Method: REG</b>			
Permission of department required.			
0101 Time Arranged	Room Arranged	Staff	Staff
0201 Time Arranged	Room Arranged	Staff	Staff
<b>BMGT 398</b> <b>Individual Study in Business and Management 1-3 credits; Grading Method: REG</b>			
Permission of department required.			
0101 Time Arranged	Room Arranged	Staff	Staff
0201 Time Arranged	Room Arranged	Staff	Staff
<b>BMGT 402</b> <b>Database and Data Communication Systems 3 credits; Grading Method: REG</b>			
0101 TuTh 4:00pm-7:00pm	Bldg TYD, Room 2110	Staff	Staff
Prerequisite: BMGT 302. Introduction to database and data communications systems. Modeling and database construction using the three data models and hierarchical and hierarchical implementation project using DMS 1100 database system. Data communications protocols and communications support software. Analysis of distributed systems and computer networks. Emphasis on new technologies.			
<b>BMGT 404</b> <b>Seminar in Decision Support Systems 3 credits; Grading Method: REG</b>			
0201 TuTh 4:00pm-7:00pm	Bldg TYD, Room 0118	Staff	Staff
Prerequisite: BMGT 301. Design of computer systems to solve business problems and to support decision making. Human and organizational factors are considered. Emphasis on case studies.			
<b>BMGT 417</b> <b>Advanced Tax Accounting 3 credits; Grading Method: REG</b>			
0201 MTuWThF 11:00am-12:20pm	Bldg TYD, Room 1101	Staff	Staff
Prerequisite: BMGT 311; and BMGT 323. Federal taxation of corporations, partnerships, fiduciaries, and grantor transfers. Tools and techniques of tax research for compliance and planning.			
<b>BMGT 422</b> <b>Auditing Theory and Practice 3 credits; Grading Method: REG</b>			
0101 MTuWThF 9:30am-10:50am	Bldg TYD, Room 2110	Staff	Staff
Prerequisite: BMGT 311. A study of the independent accountant's attest function, generally accepted auditing standards, compliance and substantive tests, and report forms and opinions.			

**BMGT cont.**

**BMGT 424 Advanced Accounting 3 credits; Grading Method: REG**  
 0101 MW TuWThF 8:00am-9:20am Bldg. TYD, Room 1108 Staff  
 Prerequisite: BMGT 311. Advanced accounting theory applied to specialized topics and current problems. Emphasis on consolidated statements and partnership accounting.

**BMGT 435 Introduction to Applied Probability Models 3 credits; Grading Method: REG**  
 0101 MW 4:00pm-7:00pm Bldg. TYD, Room 0102 Bodin, L  
 Prerequisite: BMGT 231 or permission of department. Statistical models in management. Review of probability theory, Monte Carlo methods, discrete event simulation, Markov chains, queueing analysis, other topics depending upon time. Gauss, a higher-level computer language, will be introduced in the class and the students will carry out various exercises using this language.

**BMGT 440 Financial Management 3 credits; Grading Method: REG**  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 1108 Squire, B  
 0201 MW 7:00pm-10:00pm Bldg. TYD, Room 1118 Staff  
 Prerequisite: BMGT 340. Analysis and discussion of cases and readings relating to financial decisions of the firm. The application of finance concepts to the solution of financial problems is emphasized.

**BMGT 445 Commercial Bank Management 3 credits; Grading Method: REG**  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 2102 Edmister, R  
 0201 TuTh 7:00pm-10:00pm Bldg. TYD, Room 1108 Edmister, R  
 Prerequisite: BMGT 340, and ECON 430. Analysis and discussion of cases and readings in commercial bank management. The loan function is emphasized, also the management of liquidity reserves, investments for income, and source of funds. Bank objectives, functions, policies, organization, structure, services, and regulation are considered.

**BMGT 450 Marketing Research Methods 3 credits; Grading Method: REG**  
 0101 MW TuWThF 9:30am-10:50am Bldg. TYD, Room 1132 Staff  
 0201 MW TuWThF 11:00am-12:20pm Bldg. TYD, Room 2108 Staff  
 Prerequisites: BMGT 230, and BMGT 350. Recommended: BMGT 430. Development of skill in the use of scientific methods in the acquisition, analysis and interpretation of marketing data. Specialized fields of marketing research; the planning of survey projects, sample design, tabulation procedure and report preparation are covered.

**BMGT 451 Consumer Analysis 3 credits; Grading Method: REG**  
 0101 MW TuWThF 9:30am-10:50am Bldg. TYD, Room 1108 Durand, R  
 Prerequisite: BMGT 350. Recommended: PSYC 100, and PSYC 211. The growing importance of American consumers in the marketing system and the need to understand them. Topics include the foundation considerations underlying consumer behavior such as economic, social, psychological and cultural factors; analysis of consumers as buyers and users of products and services - and in relation to the various individual social and marketing factors affecting their behavior. The influence of marketing communications is also considered.

**BMGT 454 International Marketing 3 credits; Grading Method: REG**  
 0101 MW TuWThF 11:00am-12:20pm Bldg. TYD, Room 2106 Greer, T  
 Prerequisites: BMGT 350 plus one other marketing course. Marketing functions from the international executive's viewpoint, including coverage of international marketing policies relating to product adaptation, data collection and analysis, channels of distribution, pricing, communications, and cost analysis. Consideration is given to the cultural, legal, financial, and organizational aspects of international marketing.

**BMGT 457 Marketing Policies and Strategies 3 credits; Grading Method: REG**  
 0101 MW TuWThF 12:30pm-1:50pm Bldg. TYD, Room 2108 Biehler, G  
 0201 MW TuWThF 9:30am-10:50am Bldg. TYD, Room 2108 Stephens, D  
 Prerequisite: three courses in marketing. Integrative decision making in marketing. Emphasis on consumer and market analysis and the appropriate decision models. Case studies are included.

**BMGT 482 Business and Government 3 credits; Grading Method: REG**  
 0201 MW TuWThF 9:30am-10:50am Bldg. TYD, Room 1108 Staff  
 Prerequisite: ECON 203; or ECON 205. A study of the role of government in modern economic life. Social control of business as a remedy for the abuses of business enterprise arising from the decline of competition. Criteria of limitations on government regulation of private enterprise.

**BMGT 495 Business Policies 3 credits; Grading Method: REG**  
 BMGT majors only. All others must have authorization.  
 0101 MW TuWThF 9:30am-10:50am Bldg. TYD, Room 1118 Haslem, J  
 0102 MW TuWThF 10:00am-12:20pm Bldg. TYD, Room 1132 Haslem, J  
 0103 TuTh 4:00pm-7:00pm Bldg. TYD, Room 1128 Gannon, M  
 0104 TuTh 7:00pm-10:00pm Bldg. TYD, Room 2111 Gannon, M  
 0101 MW TuWThF 9:30am-10:50am Bldg. TYD, Room 2108 Staff  
 0202 TuTh 4:00pm-7:00pm Bldg. TYD, Room 1118 Staff  
 0203 TuTh 7:00pm-10:00pm Bldg. TYD, Room 2102 Staff  
 Prerequisites: BMGT 340; and BMGT 350; and BMGT 364 Senior standing. A case study course where students apply what they have learned of general management principles and their specialized functional applications to the overall management function in the enterprise.

**BMGT 501 Business Functions 4 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 6:00pm-10:00pm Bldg. TYD, Room 1136 Staff  
 Intensive review of marketing and finance functions in the business enterprise. Credit not applicable to graduate degrees.

**BMGT 505 Organizational Behavior and Strategic Management 3 credits; Grading Method: REG**  
 Permission of department required.  
 0201 MW 7:00pm-10:00pm Bldg. TYD, Room 2108 Power, D  
 Intensive review of organizational behavior theory and administrative processes and policy in the business enterprise. Credit not applicable to graduate degrees.

**BMGT 630 Managerial Statistics I 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 1140 Alt, F  
 0102 TuTh 7:00pm-10:00pm Bldg. TYD, Room 1101 Alt, F  
 0103 MW 7:00pm-10:00pm Bldg. TYD, Room 1128 Staff  
 0202 TuTh 7:00pm-10:00pm Bldg. TYD, Room 1140 Staff  
 Application of statistical concepts to solution of business problems; laboratory use of computer packages.

**BMGT 661 Human Resources Management 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 TuTh 7:00pm-10:00pm Bldg. TYD, Room 2102 Olan, J  
 0201 TuTh 7:00pm-10:00pm Bldg. TYD, Room 1102 Premack, S  
 The human resource function in organizations. Human resource planning, procurement and selection, training and development, performance appraisal, wage and salary administration, and equal employment opportunity.

**BMGT 670 Economic Environment 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 0117 Staff  
 0102 TuTh 7:00pm-10:00pm Bldg. TYD, Room 2109 Staff  
 0201 TuTh 7:00pm-10:00pm Bldg. TYD, Room 0102 Staff  
 The macroeconomic environment and its impact on the business enterprise. Nature of economic fluctuations, analysis of consumer spending, theory and analysis of investment spending, supply and demand for money and capital, modern macroeconomic theory, intermational problems, forecasting and an analysis of economic conditions.

**BMGT 672 Physical Distribution Management 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 2140 Poist, R  
 Managerial practices required to fulfill the physical movement needs of extractive, manufacturing, and merchandising firms. The total cost approach to physical distribution. Interrelations among purchased transport services, privately supplied transport services, inventory control, materials handling, packaging, and plant location. The communications network to support physical distribution. The problems of coordination between the physical movement management function and other functional areas within the business firm, such as accounting, finance, marketing, and production.

**BMGT cont.**

**BMGT 690 Strategic Management 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 1102 Staff  
 0201 TuTh 7:00pm-10:00pm Bldg. TYD, Room 1101 Power, D  
 Prerequisites: permission of department; and completion of all other MBA core courses before registering for this course. Case studies and research in the identification of management problems, the evaluation of alternative solutions, and the recommendation for management implementation.

**BMGT 710 Advanced Accounting Theory 3 credits; Grading Method: REG**  
 Permission of department required.  
 0201 MW 7:00pm-10:00pm Bldg. TYD, Room 1136 Staff  
 Prerequisite: BMGT 610. Contemporary issues in financial accounting. The nature of income, the relationship between accrual and cost valuation and income determination, and various approaches to accounting inflation. The accounting standards setting process. The measurement and valuation of assets (e.g., foreign investments) and liabilities (e.g., leases and pensions).

**BMGT 713 The Impact of Taxation On Business Decisions 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. HKB, Room 0117 Staff  
 Prerequisite: BMGT 611. The impact of tax law and regulations on alternative strategies with particular emphasis on the large, multidivisional firm. Problems of acquisitions, mergers, spinoffs, and other diversifications from the viewpoint of profit planning, cash flow, and tax deferral.

**BMGT 741 Advanced Financial Management 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 2110 Chen, S  
 Prerequisite: BMGT 640. Concepts underlying financial decision making in the firm. Case studies, model building and applications in financial theory and management.

**BMGT 743 Investment Management 3 credits; Grading Method: REG**  
 Permission of department required.  
 0201 TuTh 7:00pm-10:00pm Bldg. ARC, Room 1123 Eun, C  
 Prerequisite: BMGT 640. Methods of security selection and portfolio management in the debt and equity markets. Investment alternatives, securities markets, bond and common stock valuation, options, portfolio theory, and behavior of stock prices.

**BMGT 753 International Marketing 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 TuTh 7:00pm-10:00pm Bldg. TYD, Room 0111 Greer, T  
 Prerequisite: BMGT 650. Environmental, organizational, and financial aspects of international marketing as well as problems of marketing research, pricing, channels of distribution, product policy, and communications which face U.S. firms trading with foreign firms or which face foreign firms in their operations.

**BMGT 781 MBA Field Project 3 credits; Grading Method: REG**  
 Permission of department required. Total Enterprise Strategy - Management Practicum.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff  
 Prerequisite: permission of department. Experiential research project in the identification of management problems, the evaluation of alternative solutions, and the recommendation for management.

**BMGT 785 Management of the Multinational Firm 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 1101 Scheraga, C  
 The problems and policies of international business enterprise at the management level. Management of a multinational enterprise as well as management within foreign units. The multinational firm as a socio-economic institution. Case studies in comparative management.

**BMGT 788A Special Topics in Business and Management: Expert Systems 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 TuTh 7:00pm-10:00pm Bldg. TYD, Room 2110 Basu, A

**BMGT 788B Special Topics in Business and Management: Strategic Marketing 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 6:30pm-9:30pm Bldg. TYD, Room 2111 Biehler, G

**BMGT 798C Special Topics in Business and Management: Advanced Topics in Linear Programming 3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 MW 7:00pm-10:00pm Bldg. TYD, Room 2100 Gass, S

**BMGT 798D Special Topics in Business and Management: Executive Power and Negotiation 3 credits; Grading Method: REG**  
 Permission of department required.  
 0201 MW 7:00pm-10:00pm Bldg. TYD, Room 2140 Taylor, M

**BMGT 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**BMGT 828 Independent Study in Business and Management 1-9 credits; Grading Method: REG**  
 Permission of department required. Contact Graduate Program Director to make arrangements.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**BMGT 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 Permission of department required. Contact Graduate Program Director to make arrangements.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**BOTN (LIFE SCIENCES)**

**BOTN 100 General Botany For Non-Science Students 4 credits; Grading Method: REG-P/F/AUD**  
 Meets USBP Distributive Studies (B)Natural Sciences and Mathematics requirement.  
 0101 MTuWThF 9:00am-9:50am Bldg. HJP, Room 1229 Higgins, E  
 0102 MTuWThF 10:00am-12:00pm Bldg. HJP, Room 1203 (LAB) Higgins, E  
 0103 MTuWThF 9:00am-9:50am Bldg. HJP, Room 1209 Higgins, E  
 0201 MTuWThF 10:00am-12:00pm Bldg. HJP, Room 2104 (LAB) Kaines, P  
 0202 MTuWThF 9:00am-9:50am Bldg. HJP, Room 2242 Kaines, P  
 0203 MTuWThF 10:00am-12:00pm Bldg. HJP, Room 2103 (LAB) Kaines, P  
 0204 MTuWThF 9:00am-9:50am Bldg. HJP, Room 2242 Kaines, P  
 0205 MTuWThF 10:00am-12:00pm Bldg. HJP, Room 2104 (LAB)  
 A basic course in botany specifically designed to meet the educational needs of the general or non-science student. Emphasis is placed on an ecological approach to studying fundamental concepts and processes of plants, and stressing the importance of plant life to human welfare. Credit not allowed for both BOTN 100 and 101.

**BOTN 399 Research Problems in Botany: Research Problems in Botany 1-3 credits; Grading Method: REG-P/F/AUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**BOTN cont.**

<b>BOTN 403</b>	<b>Medicinal and Poisonous Plants 2 credits; Grading Method: REG/P-FAUD</b>		
0101	MW 4:15pm-7:00pm	Bldg. HJP, Room 1223	Lockard, J
0201	Time Arranged	Room Arranged	Staff
Prerequisite: BOTN 101 and CHEM 104. A study of plants important to man that have medicinal or poisonous properties. Emphasis on plant source, plant description, the active agent and its beneficial or detrimental physiological action and effects.			
<b>BOTN 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>BOTN 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**BSOS****BEHAVIORAL AND SOCIAL SCIENCES****(BEHAVIOR AND SOCIAL SCI)**

<b>BSOS 386</b>	<b>Field Work 3 credits; Grading Method: REG/P-FAUD</b>		
0101	Time Arranged	Room Arranged	Beardsley, K
0102	Time Arranged	Room Arranged	Sorenson, G
0201	Time Arranged	Room Arranged	Sorenson, G
<b>BSOS 387</b>	<b>Field Work Analysis 3 credits; Grading Method: REG/P-FAUD</b>		
0101	Time Arranged	Room Arranged	Beardsley, K
0102	Time Arranged	Room Arranged	Sorenson, G
0201	Time Arranged	Room Arranged	Sorenson, G

**CHEM****CHEMISTRY****(LIFE SCIENCES)**

<b>CHEM 103</b>	<b>General Chemistry I 4 credits; Grading Method: REG/P-FAUD</b>		
Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.			
0131	MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 2110	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1105 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0119 (DIS)	
0132	MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 2110	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1106 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0122 (DIS)	
0133	MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 2110	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1109 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0201 (DIS)	
0134	MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 2110	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1110 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0127 (DIS)	
0231	MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 1402	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1106 (LAB)	
	TuTh 9:30am-10:50am	Bldg. EGR, Room 3114 (DIS)	
0232	MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 1402	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1105 (LAB)	
	TuTh 9:30am-10:50am	Bldg. EGR, Room 1110 (DIS)	
Prerequisite: a satisfactory math SAT score or an adequate knowledge of high school chemistry which results in CHEM 101. The first semester of a chemistry sequence intended for students whose curricula require 4 or more of chemistry. The nature and composition of matter, chemical calculations, elements and inorganic compounds. Credit may be received for only one course of the following: CHEM 102, 103, 105, 107, 111.			
<b>CHEM 104</b>	<b>Fundamentals of Organic and Biochemistry 4 credits; Grading Method: REG/P-FAUD</b>		
Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.			
0261	MTuWThF 11:00am-12:15pm	Bldg. CHE, Room 2110	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1208 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHE, Room 2110 (DIS)	
0262	MTuWThF 11:00am-12:15pm	Bldg. CHE, Room 2110	Staff
	MWF 8:00am-10:50am	Room Arranged (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHE, Room 2145 (DIS)	
Prerequisite: CHEM 103 or CHEM 105. Intended for students whose curricula require one year of chemistry. Students requiring two or more years of chemistry should register for CHEM 233 or 235. Students may not receive credit for both CHEM 104 and CHEM 233 (or 235). The chemistry of carbon: aliphatic compounds, aromatic coAUPM stereochemistry, halides, amines, and amides, acids, esters, carbohydrates, and natural products.			
<b>CHEM 113</b>	<b>General Chemistry II 4 credits; Grading Method: REG/P-FAUD</b>		
Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.			
0141	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1402	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1122 (LAB)	
	TuTh 9:30am-10:50am	Bldg. EGR, Room 3108 (DIS)	
0142	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1402	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1112 (LAB)	
	TuTh 9:30am-10:50am	Bldg. EGR, Room 3114 (DIS)	
0241	MTuWThF 11:00am-12:20pm	Bldg. PHY, Room 1112	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1122 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0127 (DIS)	
0242	MTuWThF 11:00am-12:20pm	Bldg. PHY, Room 1412	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1112 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0128 (DIS)	
0243	MTuWThF 11:00am-12:20pm	Bldg. PHY, Room 1412	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1119 (LAB)	
	TuTh 9:30am-10:50am	Bldg. ANS, Room 1109 (DIS)	
Prerequisite: CHEM 103 or 105. Kinetics; homogeneous, heterogeneous, and ionic equilibria; oxidation-reduction; electrochemistry; chemistry of the elements. Credit may be received for only one of CHEM 113 or 115.			
<b>CHEM 233</b>	<b>Organic Chemistry I 4 credits; Grading Method: REG/P-FAUD</b>		
0171	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1216 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0119 (DIS)	
0172	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1221 (LAB)	
	TuTh 9:30am-10:50am	Bldg. EGR, Room 1110 (DIS)	
0173	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1224 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0128 (DIS)	
0174	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1119 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHE, Room 2118 (DIS)	
Prerequisite: CHEM 113 or 115. This course is the first of a two-semester sequence in organic chemistry and is intended to be followed by CHEM 243 or 245. The chemistry of carbon: aliphatic compounds, aromatic compounds, stereochemistry, amines, alcohols, aldehydes, esters, and spectroscopy. Credit may be received for only one course of CHEM 104, 233, 235.			

**CHEM cont.**

<b>CHEM 243</b>	<b>Organic Chemistry II 4 credits; Grading Method: REG/P-FAUD</b>		
0281	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1224 (LAB)	
	TuTh 9:30am-10:50am	Bldg. EGR, Room 0135 (DIS)	
0282	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1221 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CHM, Room 0122 (DIS)	
0283	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1227 (LAB)	
	TuTh 9:30am-10:50am	Bldg. MTH, Room 80425 (DIS)	
0284	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1216 (LAB)	
	TuTh 9:30am-10:50am	Bldg. MTH, Room 0401 (DIS)	
0285	MTuWThF 11:00am-12:20pm	Bldg. CHM, Room 1407	Staff
	MWF 8:00am-10:50am	Bldg. CHM, Room 1233 (LAB)	
	TuTh 9:30am-10:50am	Bldg. CLB, Room 0109 (DIS)	
Prerequisite: CHEM 243 or 235. A continuation of CHEM 233 with emphasis on molecular structure; substitution reactions; carbonium ions; aromaticity; synthetic processes; macro-molecules. Credit may be received for only one of CHEM 243 or 235.			
<b>CHEM 398</b>	<b>Special Projects 2 credits; Grading Method: REG/P-FAUD</b>		
0101	Time Arranged	Room Arranged	Staff
<b>CHEM 399</b>	<b>Introduction to Chemical Research 1-2 credits; Grading Method: REG/P-FAUD</b>		
Permission of department required. Research plans must be approved by Dr. Boyd or Dr. Deane before registration.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CHEM 481</b>	<b>Physical Chemistry I 3 credits; Grading Method: REG/P-FAUD</b>		
0101	Meets JUN 5 to JUL 27	Bldg. CHM, Room 1402	Staff
Prerequisites: CHEM 113 or 115; CHEM 243 or 245; MATH 141; PHYS 142 or PHYS 263 (PHYS 263 may be taken concurrently); or consent of instructor. A course primarily for chemists and chemical engineers.			
<b>CHEM 482</b>	<b>Physical Chemistry II 3 credits; Grading Method: REG/P-FAUD</b>		
0101	Meets JUN 5 to JUL 27	Bldg. CHM, Room 1402	Staff
Prerequisite: CHEM 481, or consent of instructor. A course primarily for chemists and chemical engineers.			
<b>CHEM 699</b>	<b>Special Problems in Chemistry 1-6 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CHEM 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CHEM 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**CHIN****(ARTS AND HUMANITIES)**

<b>CHIN 101</b>	<b>Intensive Elementary Chinese I 6 credits; Grading Method: REG/P-FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MTuWThF 9:30am-12:20pm	Bldg. JMZ, Room 1123	Hu, J
0102	MTuWThF 9:30am-12:20pm	Bldg. JMZ, Room 2207	Brown, W
Introduction to speaking, reading, and writing Chinese with an emphasis on mastering the essentials of pronunciation, basic characters and structural patterns.			
<b>CHIN 102</b>	<b>Elementary Spoken Chinese 3 credits; Grading Method: REG/P-FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	MTuWThF 9:30am-10:50am	Bldg. JMZ, Room 1123	Wu, D
Prerequisite: CHIN 101 or equivalent. Continued study of grammatical patterns and vocabulary build-up with particular emphasis on conversation. May be taken in conjunction with CHIN 103.			
<b>CHIN 103</b>	<b>Elementary Written Chinese 3 credits; Grading Method: REG/P-FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	MTuWThF 11:00am-12:20pm	Bldg. JMZ, Room 1123	Sargent, S
Prerequisite: CHIN 101 or equivalent. Continued study of grammatical patterns and build-up of vocabulary with particular emphasis on reading and writing. May be taken in conjunction with CHIN 102.			

**CHPH****CHEMICAL PHYSICS (COMP, MATH, AND PHYS SCI)**

<b>CHPH 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
<b>CHPH 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**CJUS****INSTITUTE OF CRIMINAL JUSTICE AND CRIMINOLOGY (BEHAVIOR AND SOCIAL SCI)**

<b>CJUS 100</b>	<b>Introduction to Law Enforcement 3 credits; Grading Method: REG/P-FAUD</b>		
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	MTuWThF 9:30am-10:50am	Bldg. LEF, Room 1220	Brooks, L
0201	MTuWThF 11:00am-12:20pm	Bldg. LEF, Room 1222	Miller, S
Introduction to the administration of criminal justice in a democratic society with emphasis upon the theoretical and historical development of law enforcement. The principles of organization and administration for law enforcement; functions and specific activities; planning and research; public relations; personnel and training; inspection and control; direction; policy formulation.			
<b>CJUS 320</b>	<b>Introduction to Criminology 3 credits; Grading Method: REG/P-FAUD</b>		
0101	MW 8:00am-9:00pm	Bldg. LEF, Room 0208	Mauriello, T
0201	MW 6:00pm-9:00pm	Bldg. LEF, Room 0208	Mauriello, T
Prerequisites: CJUS 220 and consent of instructor. An introduction to modern methods used in the detection, investigation and solution of crimes. Practical analysis of evidence in a criminal investigation; chemistry, including photography, fingerprints and other impressions, ballistics, glass, hair, handwriting and document examination, drug analysis, and lie detection.			

**CJUS cont.**

<b>CJUS 386</b>	<b>Field Work</b> 1-3 credits; <i>Grading Method: REG</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CJUS 387</b>	<b>Field Work Analysis</b> 1-3 credits; <i>Grading Method: REG</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CJUS 398</b>	<b>Law Enforcement Field Training</b> 1-3 credits; <i>Grading Method: REG-P-FAUD</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CJUS 399</b>	<b>Directed Independent Research</b> 1-3 credits; <i>Grading Method: REG-P-FAUD</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CJUS 899</b>	<b>Special Problems in Criminal Justice</b> 1-3 credits; <i>Grading Method: REG-AUD</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CJUS 799</b>	<b>Master's Thesis Research</b> 1-6 credits; <i>Grading Method: REG</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**CLASSICS**

<b>CLAS 170</b>	<b>Greek and Roman Mythology</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Meets USP Distributive Studies (A) Cultural and Historical requirement.	Room Arranged	Staff
0101	MTuWThF 9:30am-10:50am	Bldg. HBK, Room 1116	Sherrin, W
0201	MTuWThF 11:00am-12:20pm	Bldg. JMZ, Room 2206	Sherrin, W
Taught in English, no prerequisite. cannot be taken for language credit. This course is particularly recommended for students planning to major in foreign languages, English, history, the fine arts, or journalism.			
<b>CLAS 374</b>	<b>Greek Tragedy in Translation</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Meets USP Advanced Studies Analysis of Human Problems requirement.	Room Arranged	Staff
0101	MTuWThF 11:00am-12:20pm	Bldg. HBK, Room 1112	Clawsey, M
Study and analysis of the tragedies of Aeschylus, Sophocles and Euripides with special attention to the concepts of character and of thought as conceived by Aristotle in <i>The Poetics</i>			

**CLAS**

**(ARTS AND HUMANITIES)**

**CMLT**

**COMPARATIVE LITERATURE (ARTS AND HUMANITIES)**

<b>CMLT 799</b>	<b>Master's Thesis Research</b> 1-6 credits; <i>Grading Method: REG</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMLT 899</b>	<b>Doctoral Dissertation Research</b> 1-8 credits; <i>Grading Method: REG</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**CMSC**

**COMPUTER SCIENCE (COMP, MATH, AND PHYS SCI)**

<b>CMSC 110</b>	<b>Introduction to Fortran Programming</b> 4 credits; <i>Grading Method: REG-P-FAUD</i> CMSC majors must take CMSC 112 as a first course.	Room Arranged	Staff
0101	Meets JUN 5 JUL 28 MTuWThF 12:30pm-1:50pm Tu 11:00am-12:20pm	Bldg. CSS, Room 2330 Bldg. CSS, Room 2352 (DIS)	Williams, J
Pre- or corequisite: MATH 140 or MATH 220. Construction of algorithms and the efficient solution of computational problems. Conducted in FORTRAN. Intended for scientists, engineers, and business majors. Not applicable to the major requirements in computer science.			
<b>CMSC 112</b>	<b>Computer Science I</b> 4 credits; <i>Grading Method: REG-P-FAUD</i>	Room Arranged	Staff
0101	Meets JUN 5 to JUL 28 MTuWThF 2:00pm-3:20pm W 12:30pm-1:50pm	Bldg. CLB, Room 0109 Bldg. CLB, Room 0102 (DIS)	Jou, E
Pre- or corequisite: MATH 140. Design and analysis of programs using structured programming and data abstraction. Formal syntax and semantics, and program verification. Conducted in Pascal. Intended for computer science majors.			
<b>CMSC 113</b>	<b>Computer Science II</b> 4 credits; <i>Grading Method: REG-P-FAUD</i>	Room Arranged	Staff
0101	Meets JUN 5 to JUL 28 MTuWThF 2:00pm-3:20pm W 12:30pm-1:50pm	Bldg. CLB, Room 0104 Bldg. MMH, Room 1014 (LAB)	Eastman, R
Pre- or corequisite: MATH 141. A continuation of CMSC 112. Intended for computer science majors. Credit will be given for only one course: CMSC 113, 120 or 122.			
<b>CMSC 120</b>	<b>Introduction to Pascal Programming</b> 4 credits; <i>Grading Method: REG-P-FAUD</i>	Room Arranged	Staff
0101	MTuWThF 11:00am-12:20pm Tu 9:30am-10:50am	Bldg. CSS, Room 2330 Bldg. CSS, Room 2330 (DIS)	Williams, J
Prerequisite: MATH 110. Design and analysis of programs in Pascal. An introduction to computing, using structured programming concepts. Not applicable to the major requirements in computer science. Credit will be given for only one course: CMSC 113, 120 or 122.			
<b>CMSC 250</b>	<b>Introduction to Discrete Structures</b> 3 credits; <i>Grading Method: REG-P-FAUD</i>	Room Arranged	Staff
0101	TuTh 5:00pm-8:00pm	Bldg. CLB, Room 0104	Fontenelle R
Prerequisite: CMSC 110 or CMSC 112; MATH 111 or equivalent. Fundamental mathematical concepts and algebraic structures, such as sets, relations, functions, semigroups, monoids, and Boolean algebras. Introduction to the theory of graphs and trees and their realization as computer programs. Emphasis on examples and applications rather than mathematical rigor.			
<b>CMSC 311</b>	<b>Computer Organization</b> 3 credits; <i>Grading Method: REG-P-FAUD</i>	Room Arranged	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. CLB, Room 0102	Park, C
Prerequisite: CMSC 112. Introduction to assembly language. Design of digital logic circuits. Organization of central processors, including instruction sets, register transfer operations, control microprogramming, data representation, and arithmetic algorithms. Memory and input/output organization.			
<b>CMSC 366</b>	<b>Field Work</b> 1 credit; <i>Grading Method: REG-P-FAUD</i> Permission of department required. Written permission of instructor must be obtained in advance on department form.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
<b>CMSC 387</b>	<b>Field Work Analysis</b> 2 credits; <i>Grading Method: REG-P-FAUD</i> Permission of department required. Written permission of instructor must be obtained in advance on department form.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff

**CMSC cont.**

<b>CMSC 411</b>	<b>Computer System Architecture</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Permission of department required.	Room Arranged	Staff
0201	MTuWThF 9:30am-10:50am	Bldg. CLB, Room 0104	Park, C
Prerequisite: CMSC 311 or equivalent. Input/output processors and techniques. Intra-system communication, buses, caches. Addressing and memory hierarchies. Microprogramming, parallelism, and pipelining.			
<b>CMSC 420</b>	<b>Data Structures</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Permission of department required.	Room Arranged	Staff
0201	MW 5:00pm-8:00pm	Bldg. CLB, Room 0111	Eastman, R
Prerequisite: CMSC 220 or equivalent. Description, properties, and storage allocation of data structures including lists and trees. Algorithms for manipulating structures. Applications from areas such as data processing, information retrieval, symbol manipulation, and operating systems.			
<b>CMSC 450</b>	<b>Elementary Logic and Algorithms</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Permission of department required.	Room Arranged	Staff
0102	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 1313	Staff
0103	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 1313	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. MMH, Room 0407	Staff
Prerequisite: MATH 240 or consent of instructor. This is the same course as MATH 444. An elementary development of propositional logic, predicate logic, set algebras, and Boolean algebra, with a discussion of Markov algorithms, Turing machines and recursive functions. Topics include post productions, word problems, and formal languages.			
<b>CMSC 460</b>	<b>Computational Methods</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Permission of department required.	Room Arranged	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. CLB, Room 0111	Staff
Prerequisites: MATH 240, and MATH 241; and CMSC 110 or CMSC 113. Also offered as MAPL 460. Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis is on methods and their computational properties rather than their analytic aspects. Intended primarily for students in the physical and engineering sciences. Credit will not be granted for both CMSC/MAPL 460 and CMSC/MAPL 466.			
<b>CMSC 498A</b>	<b>Special Problems in Computer Science</b> 1-3 credits; <i>Grading Method: REG-P-FAUD</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 798A</b>	<b>Graduate Seminar in Computer Science</b> 1-3 credits; <i>Grading Method: REG/AUD</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 799</b>	<b>Master's Thesis Research</b> 1-6 credits; <i>Grading Method: REG</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 818A</b>	<b>Advanced Topics in Computer Systems</b> 1-3 credits; <i>Grading Method: REG/AUD</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 828A</b>	<b>Advanced Topics in Information Processing</b> 1-3 credits; <i>Grading Method: REG/AUD</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 838A</b>	<b>Advanced Topics in Programming Language</b> 1-3 credits; <i>Grading Method: REG/AUD</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 858A</b>	<b>Advanced Topics in Computing</b> 1-3 credits; <i>Grading Method: REG/AUD</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 878A</b>	<b>Advanced Topics in Numerical Methods: Advanced Topics in Numerical Methods</b> 1-3 credits; <i>Grading Method: REG/AUD</i> Permission of department required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CMSC 899</b>	<b>Doctoral Dissertation Research</b> 1-8 credits; <i>Grading Method: REG</i>	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**CNEC**

**CONSUMER ECONOMICS (HUMAN ECOLOGY)**

<b>CNEC 100</b>	<b>Introduction to Consumer Economics</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.	Room Arranged	Staff
0101	TuTh 7:00pm-10:00pm	Bldg. MMH, Room 0108	Turner, P
0201	TuTh 7:00pm-10:00pm	Bldg. MMH, Room 0108	Eckman, M
The role of the consumer in modern society. Topics include the consumer to the market, the impact of market failures on the quality of life and the impact of government and business decisions on consumer welfare.			
<b>CNEC 310</b>	<b>Consumer Economics and Public Policy</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Meets USP Advanced Studies Analysis of Human Problems requirement.	Room Arranged	Staff
0201	MW 7:00pm-10:00pm	Bldg. MMH, Room 1304	Soboron-Ferrer, H
Prerequisites: ECON 201; and ECON 203. The application of economic theory, including benefit-cost analysis, to an evaluation of policy decisions in the private and public sectors which affect the consumer. The economic, social, and political framework within which policy decisions are made.			
<b>CNEC 396</b>	<b>Field Work and Analysis in Consumer Economics</b> 3-6 credits; <i>Grading Method: S-F</i> Permission of department required. Limited to majors in consumer economics. Permission of instructor required.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
Supervised, professional field work experience in business, industry, government or education. A seminar and a written critique of the field work experience will be required to relate formal academic study to student work experiences. Students must apply a semester in advance and enrollment is by permission of the department and is limited to majors.			
<b>CNEC 410</b>	<b>Consumer Finance</b> 3 credits; <i>Grading Method: REG-P-FAUD</i> Meets USP Advanced Studies Analysis of Human Problems requirement.	Room Arranged	Staff
0101	TuTh 7:00pm-10:00pm	Bldg. MMH, Room 3418	Soboron-Ferrer, H
0201	TuTh 7:00pm-10:00pm	Bldg. MMH, Room 3418	Verma, S
Prerequisite: ECON 201; and ECON 203. Not open to students who have completed FMCD 441. An economic approach to the problems of income allocation and consumer financial planning, including income maximization, principles of asset choice, financial management and risk management. The effects of fiscal and monetary policies on lifetime economic planning.			



**CNEC cont.**

<b>CNEC 431</b>	<b>The Consumer and the Law 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Advanced Studies Analysis of Human Problems requirement.		
0101	MW 7:00pm-10:00pm	Bldg. MMH, Room 1400	Ensor, B
0102	TuTh 7:00pm-10:00pm	Bldg. MMH, Room 1304	Branigan, V
0201	MW 7:00pm-10:00pm	Bldg. MMH, Room 1400	Jakitsch, R
A study of legislation affecting consumer goods and services. Topics covered include product safety and liability, packaging and labeling, deceptive advertising, and consumer credit. The implications of such legislation for consumer welfare with particular emphasis on the disadvantaged groups in our society will be examined.			
<b>CNEC 435</b>	<b>Economics of Consumption 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Advanced Studies Analysis of Human Problems requirement. In regular academic year, this course will be offered in the spring semester only.		
0101	MW 7:00pm-10:00pm	Bldg. MMH, Room 3416	Verma, S
Prerequisites: ECON 201; and ECON 203; or ECON 205 for non-majors. The application of economic theory to a study of consumer goods and its role in a market economy at both the individual and aggregate levels. Topics covered include empirical studies of consumer spending and saving, the consumer in the market and collective consumption.			
<b>CNEC 437</b>	<b>Consumer Behavior 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Advanced Studies Analysis of Human Problems requirement.		
0101	TuTh 7:00pm-10:00pm	Bldg. LEF, Room 1222	Entenson, R
0201	TuTh 7:00pm-10:00pm	Bldg. MMH, Room 1304	Entenson, R
Prerequisites: PSYC 100; and SOCY 100. An application of the behavioral sciences to a study of consumer behavior. Current theories, models and empirical research findings are explored.			
<b>CNEC 498</b>	<b>Special Studies 2-4 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**COOP****COOPERATIVE EDUCATION PROGRAM (UNDERGRADUATE STUDIES)**

<b>COOP 098</b>	<b>Co-Op Work Experience I No credit; Grading Method: S-F</b> Participation of Co-op Coordinator required. Obtain signature and more information at Experiential Learning Programs, 0119 Hombake Library. For special fees, see the financial information section of the Schedule of Classes.		
0101	Time Arranged	Room Arranged	Mintz, S

**CRIM****CRIMINOLOGY (BEHAVIOR AND SOCIAL SCI)**

<b>CRIM 220</b>	<b>Criminology 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0101	MTuWThF 2:00pm-3:20pm	Bldg. LEF, Room 1208	Siman, B
0201	MTuWThF 2:00pm-3:20pm	Bldg. LEF, Room 1208	Katzelenson, S
Prerequisites: SOCY 100 and sophomore standing. Criminal behavior and the methods of its study; causation; typologies of criminal acts and offenders; punishment, correction and incapacitation, prevention of crime.			
<b>CRIM 359</b>	<b>Field Training in Criminology and Corrections 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CRIM 386</b>	<b>Field Work 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CRIM 387</b>	<b>Field Work Analysis 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CRIM 399</b>	<b>Independent Study in Criminology 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CRIM 450</b>	<b>Juvenile Delinquency 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MTuWThF 12:30pm-1:50pm	Bldg. LEF, Room 1208	Brooks, L
0201	MTuWThF 3:30pm-4:50pm	Bldg. LEF, Room 1208	Katzelenson, S
Prerequisite: SOCY 100. Juvenile delinquency in relation to the general problem of crime; analysis of factors underlying juvenile delinquency; treatment and prevention.			
<b>CRIM 498</b>	<b>Selected Topics in Criminology: Legal Issues in the Death Penalty 3 credits; Grading Method: REG</b>		
0101	MW 4:00pm-7:00pm	Bldg. LEF, Room 1208	Patemoster, R
<b>CRIM 699</b>	<b>Special Criminological Problems 1-3 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CRIM 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>CRIM 999</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**DANC****DANCE (ARTS AND HUMANITIES)**

<b>DANC 100</b>	<b>Modern Dance I for Non-Majors 2 credits; Grading Method: REG/P-F/AUD</b>		
0101	MTuWThF 11:00am-12:20pm	Bldg. PKT, Room 2102 (LAB)	Meyes, A
Basic principles of modern dance, emphasizing fundamentals of movement.			
<b>DANC 124</b>	<b>Ballet I for Non-Majors 2 credits; Grading Method: REG/P-F/AUD</b>		
0101	MTuWThF 9:30am-10:50am	Bldg. PKT, Room 2102	Haugler de Robles, M
Barre and center work for alignment, strength, flexibility and coordination. Introduction to ballet terminology.			
<b>DANC 200</b>	<b>Introduction to Dance 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (C) Literature and the Arts requirement.		
0101	MTuWThF 12:30pm-1:50pm	Bldg. PHY, Room 4208	Haugler de Robles, M
A study of dance as a form of communication and as an art form, a survey of the theories and styles of dance, and their relationships to other art forms.			

**DANC cont.**

<b>DANC 398</b>	<b>Directed Studies in Dance 1-6 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged (LAB)	Wiltz, A

**ECON****ECONOMICS (BEHAVIOR AND SOCIAL SCI)**

<b>ECON 201</b>	<b>Principles of Economics I 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement. Not open to students who have credit for ECON 205.		
0101	MTuWThF 8:30am-9:20am	Bldg. TYD, Room 0101	Staff
0102	MTuWThF 9:30am-10:50am	Bldg. TYD, Room 0101	Staff
0103	MTuWThF 11:00am-12:20pm	Bldg. TYD, Room 0101	Staff
0104	MW 7:00pm-10:00pm	Bldg. TYD, Room 1114	Staff
0105	TuTh 7:00pm-10:00pm	Bldg. TYD, Room 1114	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. TYD, Room 0101	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. TYD, Room 0101	Staff
An introduction to the problems of unemployment, inflation, and economic growth. Emphasis is placed on the roles of monetary and fiscal policy in the conduct of macroeconomic policy. The efficacy of wage and price controls is analyzed.			
<b>ECON 203</b>	<b>Principles of Economics II 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0101	TuTh 7:00pm-10:00pm	Bldg. TYD, Room 1128	Staff
0102	MTuWThF 8:00am-9:20am	Bldg. TYD, Room 1128	Wallis, J
0103	MTuWThF 11:00am-12:20pm	Bldg. TYD, Room 1118	Staff
0104	MTuWThF 8:00am-9:20am	Bldg. TYD, Room 1118	Wallis, J
0201	MTuWThF 8:00am-9:20am	Bldg. TYD, Room 1101	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. TYD, Room 1128	Panagariya, A
This course emphasizes the behavior of individual consumers and business firms, problems of international trade and finance, the distribution of income, policies for eliminating poverty and discrimination, the problems of environmental pollution, and the impact of different market structures upon economic activity. (Students are advised to take ECON 201 before ECON 203.)			
<b>ECON 205</b>	<b>Fundamentals of Economics 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0102	MTuWThF 8:00am-9:20am	Bldg. TYD, Room 1114	Adams, J
0201	MTuWThF 9:30am-10:50am	Bldg. TYD, Room 1114	Staff
(Not open to students who have credit for ECON 201. Credit will be given for either 201 or ECON 201, but not for both. Students in the College of Business and Management are required to take ECON 201 and should not take 205.) A one-semester introduction, for non-majors, to the principles of economics and their applications to the leading economic problems of society, including inflation, unemployment, population, poverty, urban renewal, inequality, monopoly, environmental protection, international trade, imperialism, economic planning, and comparative economic systems.			
<b>ECON 301</b>	<b>Current Issues in American Economic Policy 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 7:00pm-10:00pm	Bldg. TYD, Room 2109	Stratmann, T
Prerequisite: ECON 201 and 203, or 205. Analysis of current economic problems and public policies: inflation, unemployment, market power, government regulation, poverty and distribution of income, federal budget and tax policy, environment.			
<b>ECON 305</b>	<b>Intermediate Macroeconomic Theory and Policy 3 credits; Grading Method: REG/P-F/AUD</b> Previously ECON 401.		
0101	MTuWThF 9:30am-10:50am	Bldg. TYD, Room 1140	Staff
0102	MTuWThF 8:00am-9:20am	Bldg. TYD, Room 1101	Staff
0201	TuTh 7:00pm-10:00pm	Bldg. TYD, Room 2106	Brechling, F
Prerequisites: ECON 201, 203 and MATH 220. Analysis of the determination of national income, employment, and price levels. Discussion of consumption, investment, inflation, and government fiscal and monetary policy. Credit will be given for only one course: ECON 305 or ECON 405.			
<b>ECON 306</b>	<b>Intermediate Microeconomic Theory 3 credits; Grading Method: REG/P-F/AUD</b> Credit will be given for only one course: ECON 306 or ECON 406. Previously ECON 403.		
0101	MTuWThF 11:00am-12:20pm	Bldg. ARC, Room 1105	Kalejian, H
0201	MW 7:00pm-10:00pm	Bldg. TYD, Room 2111	Brechling, F
0202	MTuWThF 11:00am-12:20pm	Bldg. TYD, Room 1114	Kendix, M
Prerequisites: ECON 201, 203 and MATH 220. Analysis of the theories of consumer behavior and of the firm, market systems distribution theory and the roles of externalities.			
<b>ECON 310</b>	<b>Evolution of Modern Capitalism in Western Europe and the United States</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0101	MTuWThF 9:30am-10:50am	Bldg. LEF, Room 2208	Adams, J
The evolution of the capitalist system from its medieval origins to the present. Emphasis on dynamic forces of cumulative change in capitalism, including capital accumulation, technology, expansion of markets, the corporate form of private property in the means of production, and the relation of capitalism to war and revolution.			
<b>ECON 311</b>	<b>American Economic Development 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0101	MTuWThF 11:00am-12:20pm	Bldg. TYD, Room 1128	Wallis, J
Prerequisite: ECON 201 AND 203, OR 205. An analysis of the major issues in the growth and development of the American economy. Basic economic theory related to such topics as agriculture, banking, industrialization, slavery, transportation, and the Depression of the 1930's.			
<b>ECON 315</b>	<b>Economic Development of Underdeveloped Areas 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Advanced Studies Analysis of Human Problems requirement. Previously ECON 415.		
0101	MTuWThF 11:00am-12:20pm	Bldg. TYD, Room 2110	Clague, C
Prerequisites: ECON 201 and 203, or 205. Analysis of the economic and social characteristics of underdeveloped areas. Recent theories of economic development, obstacles to development, policies and planning for development. Credit will be given for only one course: ECON 315 or 416.			
<b>ECON 321</b>	<b>Economic Statistics 3 credits; Grading Method: REG/P-F/AUD</b> Previously ECON 421.		
0101	MTuWThF 8:00am-9:20am	Bldg. TYD, Room 1128	Staff
Prerequisite: MATH 220 or equivalent. Introduction to the use of statistics in economics. Topics include: probability, random variables and their distributions, sampling theory, estimation, hypothesis testing, analysis of variance, regression analysis and correlation. Not open to students who have taken BME 230 or BMEGT 231.			
<b>ECON 361</b>	<b>Economics of American Industrialization 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MTuWThF 9:30am-10:50am	Bldg. TYD, Room 2110	Burgess, J
Prerequisite: ECON 201 and 203; OR 205. A survey of industrial organization theory. Analysis of the structure, conduct, performance, and public policies in selected American industries.			
<b>ECON 370</b>	<b>Labor Markets, Human Resources, and Trade Unions 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MTuWThF 11:00am-12:20pm	Bldg. LEF, Room 2208	Knight, R
Prerequisite: ECON 201 and ECON 203; or ECON 205. A survey of labor markets and the American labor movement. Analysis of the forces of growth and composition, problems of unemployment and labor market operations, theories of wage determination, the wage-price spiral, collective bargaining, and governmental regulation of employment and labor relations. Credit will be given for only one course: ECON 370 or ECON 470.			



**ECON cont.**

- ECON 399 Individual Reading and Research For Undergraduates**  
3 credits; Grading Method: REG-P-F/AUD  
Permission of department required. Prerequisite: 6 hours of upper-division economics courses.
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ECON 420 Macroeconomic Models and Forecasting** 3 credits; Grading Method: REG-P-F/AUD  
Meets MSP Advanced Studies Department of Knowledge requirement.
- |      |                       |                      |       |
|------|-----------------------|----------------------|-------|
| 0101 | MTuWThF 8:00am-9:20am | Bldg. TYD, Room 2110 | Staff |
|------|-----------------------|----------------------|-------|
- Prerequisite: ECON 305 or 405 Analysis of the fluctuations in economic activity and the formulation and use of forecasting models of the economy. Illustrations of computer macro models and forecasting problems.
- ECON 430 Money and Banking** 3 credits; Grading Method: REG-P-F/AUD
- |      |                         |                      |                 |
|------|-------------------------|----------------------|-----------------|
| 0101 | MTuWThF 11:00am-12:20pm | Bldg. TYD, Room 1114 | Staff           |
| 0102 | MTuWThF 9:30am-10:50am  | Bldg. TYD, Room 1114 | Meyer, P.       |
| 0201 | MTuWThF 9:30am-10:50am  | Bldg. TYD, Room 1102 | Fahim-Nader, M. |
- Prerequisite: ECON 201 and ECON 203. The structure of financial institutions and their role in the provision of money and near money. Analysis of the Federal Reserve System, the techniques of central banks, and the control of supply of financial assets in stabilization policy. Relationship of money and credit to economic activity and the price level. Credit will be given for only one course: ECON 430 or ECON 431.
- ECON 440 International Economics** 3 credits; Grading Method: REG-P-F/AUD
- |      |                         |                      |                 |
|------|-------------------------|----------------------|-----------------|
| 0101 | MTuWThF 8:00am-9:20am   | Bldg. TYD, Room 1102 | Clague, C.      |
| 0201 | MTuWThF 11:00am-12:20pm | Bldg. TYD, Room 1140 | Fahim-Nader, M. |
- Prerequisite: ECON 201 and ECON 203. A description of international trade and the analysis of international transactions, exchange rates and balance of payments. Analysis of policies of protection, devaluation, and exchange rate stabilization and their consequences. Credit will be given for only one course: ECON 440 or ECON 441.
- ECON 698 Selected Topics in Economics** 3 credits; Grading Method: REG  
Permission of department required.
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ECON 799 Master's Thesis Research** 1-6 credits; Grading Method: REG
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ECON 899 Doctoral Dissertation Research** 1-8 credits; Grading Method: REG
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |

**EDCI**

**CURRICULUM AND INSTRUCTION**

**(EDUCATION)**

- EDCI 301 Teaching Art in the Elementary School** 3 credits; Grading Method: REG-P-F/AUD
- |      |                        |                      |               |
|------|------------------------|----------------------|---------------|
| 0101 | TuTh 4:00pm-7:00pm     | Bldg. EDU, Room 3115 | Craig, R.     |
| 0201 | Meets JUL 17 to AUG 4  |                      |               |
|      | MTuWThF 9:00am-12:00pm | Bldg. EDU, Room 1315 | McWhinnie, H. |
- Limited to non-education majors. Art methods and materials for elementary schools. Includes laboratory experiences with materials appropriate for elementary schools. Emphasis on emerging areas of art education for the elementary classroom teacher.
- EDCI 313 Creative Activities and Materials for the Young Child**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                        |                      |               |
|------|------------------------|----------------------|---------------|
| 0101 | Meets JUN 19 to JUL 7  | Bldg. EDU, Room 2102 | Amersthek, K. |
|      | MTuWThF 9:00am-12:00pm | Bldg. EDU, Room 2102 | Amersthek, K. |
- Prerequisite: EDCI 280. Corequisites: EDHD 300; and MUEE 450; and EDCI 318; and EDCI 314. Techniques and resources for art, music, play and creative dramatics.
- EDCI 390 Principles and Methods of Secondary Education**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                    |                      |             |
|------|--------------------|----------------------|-------------|
| 0101 | MW 4:00pm-7:00pm   | Bldg. EDU, Room 1107 | Brigham, B. |
| 0201 | TuTh 1:00pm-4:00pm | Bldg. EDU, Room 1107 | Markham, P. |
- Pre- or corequisite: EDHD 300; or permission of department. Principles and methods of teaching in junior and senior high schools. Instructional problems common to all of the subject fields, considered in relation to the needs and interests of youth, social problems and the central values of society.
- EDCI 397 Introduction to Teaching** 3 credits; Grading Method: REG-P-F/AUD
- |      |                        |                      |            |
|------|------------------------|----------------------|------------|
| 0101 | Meets JUN 19 to JUL 7  | Bldg. EDU, Room 0114 | Jantz, R.  |
|      | MTuWThF 9:00am-12:00pm | Bldg. EDU, Room 2212 | Draher, J. |
- Prerequisite: EDCI 280. Corequisite: EDHD 300. Teaching strategies, classroom interactive techniques, and procedures for planning and evaluating instruction in elementary schools. Emphasis on principles of effective instruction, classroom management, and adaptation of instruction for various student populations.
- EDCI 426 Methods of Teaching Social Studies in Secondary Schools**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |                |
|------|------------------|----------------------|----------------|
| 0101 | MW 4:00pm-7:00pm | Bldg. LEF, Room 1222 | Cirincione, C. |
|------|------------------|----------------------|----------------|
- Prerequisites: EDCI 300; and EDCI 390. Objectives, selection and organization of subject matter, appropriate methods, lesson plans, textbooks and other instructional materials, measurement and topics pertinent to social studies education. Includes emphasis on multicultural education. For in-service teachers.
- EDCI 434 Methods of Teaching English to Speakers of Other Languages**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |             |
|------|------------------|----------------------|-------------|
| 0201 | MW 4:00pm-7:00pm | Bldg. EDU, Room 0202 | Markham, P. |
|------|------------------|----------------------|-------------|
- Methods for teaching listening, speaking, reading and writing techniques and a review of research findings.
- EDCI 443 Literature for Children and Youth** 3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |       |
|------|------------------|----------------------|-------|
| 0101 | MW 4:00pm-7:00pm | Bldg. EDU, Room 0114 | Staff |
| 0201 | MW 1:00pm-4:00pm | Bldg. EDU, Room 0114 | Staff |
- For education and pre-education majors only. Analysis of literary materials for children and youth. Timeless and ageless books, and outstanding examples of contemporary publishing. Evaluation of the contributions of individual authors, illustrators and children's book awards.
- EDCI 444 Language Arts in Early Childhood Education** 3 credits; Grading Method: REG-P-F/AUD
- |      |                    |                      |                |
|------|--------------------|----------------------|----------------|
| 0101 | TuTh 4:00pm-7:00pm | Bldg. EDU, Room 2101 | O'Flahaven, J. |
|------|--------------------|----------------------|----------------|
- Teaching of spelling, handwriting, oral and written expression and creative expression. Primarily for in-service teachers, nursery school through grade 3.
- EDCI 445 Language Arts in the Elementary School** 3 credits; Grading Method: REG-P-F/AUD
- |      |                    |                      |                |
|------|--------------------|----------------------|----------------|
| 0101 | TuTh 4:00pm-7:00pm | Bldg. EDU, Room 2101 | O'Flahaven, J. |
|------|--------------------|----------------------|----------------|
- Teaching of spelling, handwriting, oral and written expression and creative expression. Primarily for in-service teachers, grades 1-6.
- EDCI 446 Methods of Teaching English, Speech, Drama in Secondary Schools**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                   |                      |              |
|------|-------------------|----------------------|--------------|
| 0101 | MW 7:00pm-10:00pm | Bldg. EDU, Room 1107 | Horsfman, F. |
|------|-------------------|----------------------|--------------|
- Prerequisites: EDHD 300; and EDCI 390; or permission of department. Objectives, selection and organization of subject matter, appropriate methods, lesson plans, textbooks and other instructional materials, measurement and topics pertinent to English, speech, and drama education. For in-service teachers.

**EDCI cont.**

- EDCI 453 Mathematics in the Elementary School** 3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |       |
|------|------------------|----------------------|-------|
| 0101 | MW 4:00pm-7:00pm | Bldg. EDU, Room 2121 | Staff |
|------|------------------|----------------------|-------|
- Prerequisite: MATH 210 or equivalent. Emphasis on materials and procedures which help pupils sense arithmetic meanings and relationships. Primarily for in-service teachers, grades 1-6.
- EDCI 455 Methods of Teaching Mathematics in Secondary Schools**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                    |                      |       |
|------|--------------------|----------------------|-------|
| 0101 | TuTh 4:00pm-7:00pm | Bldg. EDU, Room 2121 | Staff |
|------|--------------------|----------------------|-------|
- Prerequisite: EDHD 300; and EDCI 390; or permission of department. Objectives, selection and organization of subject matter, appropriate methods, lesson plans, textbooks and other instructional materials, measurement, and topics pertinent to mathematics education.
- EDCI 461 Reading in Early Childhood Education** 3 credits; Grading Method: REG-P-F/AUD
- |      |                       |                      |              |
|------|-----------------------|----------------------|--------------|
| 0201 | Meets JUL 17 to AUG 4 | Bldg. EDU, Room 2119 | Sarracho, O. |
|------|-----------------------|----------------------|--------------|
- Fundamentals of developmental reading instruction, including reading readiness, use of experience stories, procedures in using basal readers, the improvement of comprehension, word analysis, and procedures for determining individual needs. Primarily for in-service teachers, nursery school through grade 3.
- EDCI 462 Reading in the Elementary School** 3 credits; Grading Method: REG-P-F/AUD
- |      |                       |                      |              |
|------|-----------------------|----------------------|--------------|
| 0201 | Meets JUL 17 to AUG 4 | Bldg. EDU, Room 2119 | Sarracho, O. |
|------|-----------------------|----------------------|--------------|
- Prerequisite: EDCI 390; or permission of department. Objectives of developmental reading instruction, including reading readiness, use of experience stories, procedures in using basal readers, the improvement of comprehension, word analysis, and procedures for determining individual needs. Primarily for in-service teachers, grades 1-8.
- EDCI 463 The Teaching of Reading in the Secondary School**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |           |
|------|------------------|----------------------|-----------|
| 0101 | MW 4:00pm-7:00pm | Bldg. EDU, Room 0114 | Davey, H. |
|------|------------------|----------------------|-----------|
- The fundamentals of secondary reading instruction, including emphasis on content reading instruction.
- EDCI 464 Clinical Practices in Reading Diagnosis and Instruction**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                       |                      |              |
|------|-----------------------|----------------------|--------------|
| 0201 | Meets JUL 17 to AUG 4 | Bldg. EDU, Room 2101 | Sarracho, O. |
|------|-----------------------|----------------------|--------------|
- Prerequisite: EDCI 390; or EDCI 463. A laboratory course in which each student has one or more pupils for analysis and instruction. At least one class meeting per week to diagnose individual cases and to plan instruction.
- EDCI 467 Teaching Writing** 3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |            |
|------|------------------|----------------------|------------|
| 0201 | MW 4:00pm-7:00pm | Bldg. EDU, Room 2102 | Slater, W. |
|------|------------------|----------------------|------------|
- Sources and procedures for developing curriculum objectives and materials for teaching written composition, prewriting, composing, and revision procedures, contemporary directions in rhetorical theory, survey of research on composition instruction.
- EDCI 472 Methods of Teaching Science in Secondary Schools**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                       |                      |       |
|------|-----------------------|----------------------|-------|
| 0201 | Meets JUL 17 to AUG 4 | Bldg. EDU, Room 2212 | Staff |
|------|-----------------------|----------------------|-------|
- Prerequisites: EDHD 300; and EDCI 390; and permission of department. Methods for classroom and laboratory instruction, determining appropriate teaching methods, selecting instructional materials, evaluating student achievement. Includes lab and field experience. For in-service teachers.
- EDCI 473 Environmental Education** 3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |                 |
|------|------------------|----------------------|-----------------|
| 0201 | MW 1:00pm-4:00pm | Bldg. EDU, Room 0202 | Messersmith, D. |
|------|------------------|----------------------|-----------------|
- An interdisciplinary course covering the literature, techniques and strategies of environmental education.
- EDCI 474 Science in Early Childhood Education** 3 credits; Grading Method: REG-P-F/AUD
- |      |                       |                      |             |
|------|-----------------------|----------------------|-------------|
| 0101 | Meets JUN 19 to JUL 7 | Bldg. EDU, Room 2212 | Eley, J. G. |
|------|-----------------------|----------------------|-------------|
- Objectives, methods, materials and activities for teaching science in the elementary school. Primarily for in-service teachers, nursery school through grade 3.
- EDCI 475 Science in the Elementary School** 3 credits; Grading Method: REG-P-F/AUD
- |      |                       |                      |             |
|------|-----------------------|----------------------|-------------|
| 0101 | Meets JUN 19 to JUL 7 | Bldg. EDU, Room 2212 | Eley, J. G. |
|------|-----------------------|----------------------|-------------|
- Objectives, methods, materials, and activities for teaching science in the elementary school. Primarily for in-service teachers, grades 1-6.
- EDCI 487 Introduction to Computers in Instructional Settings**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                    |                      |             |
|------|--------------------|----------------------|-------------|
| 0101 | TuTh 4:00pm-7:00pm | Bldg. EDU, Room 0114 | Lockard, J. |
|------|--------------------|----------------------|-------------|
- Prerequisite: six hours of education or permission of department. A first-level survey of instructional uses of computers, software, and related technology especially for in-service teachers.
- EDCI 488 Selected Topics in Teacher Education: Writing/ Composing Difficulties and their Remediation** 3 credits; Grading Method: REG-P-F/AUD
- |      |                     |                      |            |
|------|---------------------|----------------------|------------|
| 0101 | TuTh 7:00pm-10:00pm | Bldg. EDU, Room 0114 | Slater, W. |
|------|---------------------|----------------------|------------|
- EDCI 488N Selected Topics in Teacher Education: Study of Cross Cultural, Interdisciplinary Science, Arts, and Humanities: Implications for Teaching** 3 credits; Grading Method: REG-P-F/AUD
- |      |                       |                      |            |
|------|-----------------------|----------------------|------------|
| 0101 | Meets JUN 19 to JUL 7 | Bldg. EDU, Room 2101 | Weaver, V. |
|------|-----------------------|----------------------|------------|
- EDCI 488V Selected Topics in Teacher Education: Teaching Visual Literacy**  
3 credits; Grading Method: REG-P-F/AUD
- |      |                  |                      |           |
|------|------------------|----------------------|-----------|
| 0101 | MW 4:00pm-7:00pm | Bldg. EDU, Room 1315 | Craig, R. |
|------|------------------|----------------------|-----------|
- Examines physiological, psychological, cultural, environmental, and aesthetic bases for visual literacy. Emphasis on the development of visual literacy and that have influenced the teaching of art.
- EDCI 489 Field Experiences in Education** 1-4 credits; Grading Method: REG-P-F/AUD
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- EDCI 498 Special Problems in Teacher Education** 1-6 credits; Grading Method: REG-P-F/AUD
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- EDCI 499C Workshops, Clinics, and Institutes: Advanced MBL-Curriculum, Applications and Research** 2 credits; Grading Method: REG  
Permission of department required.
- |      |                        |                      |            |
|------|------------------------|----------------------|------------|
| 0101 | Meets JUN 26 to JUL 18 | Bldg. EDU, Room 1121 | Layman, J. |
|------|------------------------|----------------------|------------|
- EDCI 499S Workshops, Clinics, and Institutes: Workshop: Computers in the Middle School Science Laboratory** 2 credits; Grading Method: REG  
Permission of department required.
- |      |                        |                      |            |
|------|------------------------|----------------------|------------|
| 0101 | Meets JUL 10 to JUL 28 | Bldg. EDU, Room 1121 | Layman, J. |
|------|------------------------|----------------------|------------|
- EDCI 653 Diagnostics and Treatment of Learning Disabilities in Mathematics I**  
3 credits; Grading Method: REG/AUD
- |      |                       |                      |               |
|------|-----------------------|----------------------|---------------|
| 0101 | Meets JUN 19 to JUL 7 | Bldg. EDU, Room 2121 | Bamberger, H. |
|------|-----------------------|----------------------|---------------|
- Prerequisite: EDCI 350; or permission of department. Objectives and treatment of disabilities in mathematics. Theoretical models, specific diagnostic and instructional techniques and materials for working with children in both clinical and classroom settings. Clinic hours to be arranged.
- EDCI 661 Teaching Reading in the Content Areas** 3 credits; Grading Method: REG/AUD
- |      |                    |                      |           |
|------|--------------------|----------------------|-----------|
| 0101 | TuTh 4:00pm-7:00pm | Bldg. EDU, Room 2212 | Davey, H. |
|------|--------------------|----------------------|-----------|
- Prerequisite: EDCI 362 or EDCI 463. Focus on improving student achievement in content disciplines where reading materials are used as instructional resources.

**EDCI cont.**

EDCI 687	Applications of Computers in Instructional Settings 3 credits; Grading Method: REG/AUD		
0201	MW 9:00am-12:00pm Prerequisite: EDCI 487 or permission of department. Review and analysis of instructional software and computer-based learning environments from the standpoint of teaching, learning, and design theories. Integration of instructional and tool software into classroom settings.	Bldg. EDU, Room 0206	Gillingham, M
EDCI 700	Theory and Research in Art Education 3 credits; Grading Method: REG/AUD		
0201	MW 11:00am-12:00pm A survey of the research literature; evaluation of research techniques; consideration of relevant instructional curriculum theory; evaluation of modern teaching methods and techniques	Bldg. EDU, Room 1315	McNinnie, H
EDCI 761	Advanced Clinical Practices in Reading Diagnosis 3 credits; Grading Method: REG/AUD		
0201	MTuWThF 9:00am-12:00pm Prerequisite: EDCI 665. Diagnostic work with children in clinic and school situations. Case report writing and conferences.	Room Arranged	Gambrell, L
EDCI 762	Advanced Clinical Practices in Reading Instruction 3 credits; Grading Method: REG/AUD		
0201	MTuWThF 1:00pm-4:00pm Prerequisite: EDCI 761. Remedial instruction with children in clinic and school situations. Remedial techniques, diagnostic teaching and evaluation.	Room Arranged	Gambrell, L
EDCI 786	Selected Topics in Teacher Education 1-3 credits; Grading Method: REG/AUD		
0201	Time Arranged	Room Arranged	Staff
EDCI 788E	Selected Topics in Teacher Education: Program Design, Assessment and Evaluation 3 credits; Grading Method: REG/AUD		
0101	Time Arranged Permission of department required.	Bldg. EDU, Room 2119	Roderick, J
0101	Time Arranged This course provides an opportunity for students to synthesize and integrate knowledge and skills learned in all components of the Maryland Masters Certification Program. Particular emphasis is placed on the integration of theoretical, empirical and practical knowledge of teaching and learning.	Room Arranged	Borko, H
EDCI 788G	Selected Topics in Teacher Education: Proseminar: Perspectives on Teaching 3 credits; Grading Method: REG/AUD		
0101	Time Arranged Permission of department required.	Room Arranged	Borko, H
EDCI 788U	Selected Topics in Teacher Education: Learning Principles for Teachers 3 credits; Grading Method: REG		
0201	MW 9:00am-12:00pm Permission of department required. Designed as a foundational course for students in the Masters Certification Program. It is intended to acquaint students with the psychological and educational research literature on learning in classrooms. Learner and teacher strategies will be particularly emphasized. Students will be expected to do the following: (a) complete the Cognitive Psychology of School Learning; (b) write a synthesis paper (to be submitted one week into the Fall term for the first seminar paper); (c) participate in class discussions of text and library reading, participate in piloting and norming for a school-learning research study. Limited to students in the Masters Certification Program.	Bldg. EDU, Room 2102	Garner, R
EDCI 788V	Selected Topics in Teacher Education: Models and Processes of Teaching 3 credits; Grading Method: REG		
0201	TuTh 9:00am-12:00pm Permission of department required. Course reflects three basic goals of Masters Certification Program: developing repertoire of teaching practices, developing effective habits of reflection upon those practices, and using theory on teaching and learning as a basis for the reflective practices. The teacher scholar who complete this course should develop a repertoire of at least three methods of teaching. These represent information processing models, behavioral models and social models. Scholar teacher will critique teaching according to standards of the specific models. The reflection about teaching practices should include consideration of philosophical issues concerning models of teaching as well as theory and research studied. Limited to students in the Masters Certification Program.	Bldg. EDU, Room 2102	McCaleb, J
EDCI 788Y	Selected Topics in Teacher Education: Social Context of Education 3 credits; Grading Method: REG		
0201	F 8:00am-12:00pm Permission of department required. Introduction to the profession of teaching and to contextual features of the school that impact teaching and learning. Includes direct observation, reflective reading and focused discussion based on field trips, help labs and group activities and class presentations will emphasize salient issues about schools and the environment in which they function. Students will be encouraged to learn from experience coupled with critical review and reflection. Limited to students in the Masters Certification Program.	Bldg. EDU, Room 2102	Arends, R
EDCI 788Z	Selected Topics in Teacher Education: Proseminar and Social Context of Education 1 credit; Grading Method: REG		
0201	F 1:00pm-4:00pm Permission of department required.	Bldg. EDU, Room 2102	Henkelman, J
EDCI 798	Special Problems in Teacher Education 1-6 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCI 799	Master's Thesis Research 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCI 808	Apprenticeship in Education 1-8 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCI 899	Doctoral Dissertation Research 1-8 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**EDCP****EDUCATION COUNSELING AND PERSONNEL SERVICES**

EDCP 386	Field Work 1-3 credits; Grading Method: REG/P-FAUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCP 387	Field Work Analysis 1-3 credits; Grading Method: REG/P-FAUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**EDCP cont.**

EDCP 410	Introduction to Counseling and Personnel Services 3 credits; Grading Method: REG/P-FAUD		
0101	MW 4:00pm-7:00pm Overview of counselor functions and skills that lead to effective helping.	Bldg. EDU, Room 2102	Power, P
EDCP 411	Principles of Mental Health 3 credits; Grading Method: REG/P-FAUD		
0201	MW 4:00pm-7:00pm The practical application of the principles of mental hygiene in classroom problems.	Bldg. EDU, Room 2203	Lawrence, R
EDCP 416	Theories of Counseling 3 credits; Grading Method: REG/P-FAUD		
0101	TuTh 4:00pm-7:00pm An overview and comparison of the major theories of counseling, including an appraisal of their utility and empirical support.	Bldg. EDU, Room 2203	Spokane, A
EDCP 489	Field Experiences in Counseling and Personnel Services 3 credits; Grading Method: REG/P-FAUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCP 498	Special Problems in Counseling and Personnel Services 1-3 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCP 611	Career Development Theory and Programs 3 credits; Grading Method: REG/AUD		
0101	MW 4:00pm-7:00pm Research and theory related to career and educational decisions; programs of related information and other activities in career education.	Bldg. EDU, Room 3236	Spokane, A
EDCP 614	Personality Theories in Counseling and Personnel Services 3 credits; Grading Method: REG/AUD		
0201	MW 4:00pm-7:00pm Examination of constructs and research related to major personality theories with emphasis on their significance for working with the behaviors of individuals.	Bldg. EDU, Room 3233	Strain, W
EDCP 617	Group Counseling 3 credits; Grading Method: REG/AUD		
0201	TuTh 4:00pm-7:00pm Prerequisite: EDCP 616. A survey of theory, research and practice of group counseling and psychotherapy with an introduction to growth groups and the laboratory approach, therapeutic factors in groups, composition of therapeutic groups, problem clients, therapeutic techniques, research methods, theories, ethics and training of group counselors and therapists.	Bldg. EDU, Room 3233	Lawrence, R
EDCP 798	Special Problems in Counseling and Personnel Services 1-6 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCP 799	Master's Thesis Research 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCP 888	Apprenticeship in Counseling and Personnel Services 1-8 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCP 889	Internship in Counseling and Personnel Services 2-8 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDCP 899	Doctoral Dissertation Research 1-8 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**EDHD****(EDUCATION)**

EDHD 300	Human Development and Learning 6 credits; Grading Method: REG/P-FAUD		
0101	MTuWThF 9:30am-12:00pm Only to students admitted to teacher education programs. Major concepts and theories of human development and learning and their implications for the educational process. One half day a week in school to observe student behavior, participate in classroom activities, and attend seminars on school topics. (Separate sections for early childhood, elementary, and secondary teacher candidates.)	Bldg. EDU, Room 3315	Bennett, S
0201	MTuWThF 9:30am-12:00pm	Bldg. EDU, Room 3315	Green, H
EDHD 306	Study of Human Behavior 3 credits; Grading Method: REG/P-FAUD		
0101	M 4:00pm-7:00pm Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement. The scientific complexities of human behavior development and adjustment. Field work: observation, recording, and analysis of the behavior of an individual. Does not satisfy requirements of professional teacher education program.	Bldg. EDU, Room 3315	Staff
EDHD 320	Human Development Through the Lifespan 3 credits; Grading Method: REG/P-FAUD		
0101	MW 4:00pm-7:00pm Central concepts related to parameters of human development, individual and social, which arise throughout the various stages of the lifespan. Continuity and change within the individual.	Bldg. EDU, Room 2102	Gardner, A
EDHD 350	Human Development Factors in Personal Development 3 credits; Grading Method: REG/P-FAUD		
0201	TuTh 4:00pm-7:00pm Personality dynamics including self-study and group experiences which contribute to individual development and insight. Emphasis on factors which enhance optimal personal growth.	Bldg. EDU, Room 2102	Tyler, B
EDHD 411	Child Growth and Development 3 credits; Grading Method: REG/P-FAUD		
0201	TuTh 4:00pm-7:00pm Theoretical approaches to and empirical studies of physical, psychological and social development from conception to puberty. Implications for home, school and community.	Bldg. EDU, Room 3315	Taylor, A
EDHD 413	Adolescent Development 3 credits; Grading Method: REG/P-FAUD		
0101	MW 7:00pm-10:00pm Observational component and individual case study. Does not satisfy requirement for professional teacher education program.	Bldg. EDU, Room 3315	Gardner, A
0201	TuTh 7:00pm-10:00pm	Bldg. EDU, Room 3315	Staff
EDHD 445	Guidance of Young Children 3 credits; Grading Method: REG/P-FAUD		
0101	MW 1:00pm-4:00pm Meets USP Advanced Studies Analysis of Human Problems requirement.	Bldg. EDU, Room 1107	Staff
0102	TuTh 4:00pm-7:00pm	Bldg. EDU, Room 1121	Staff
0201	MW 7:00pm-10:00pm	Bldg. EDU, Room 2101	Marcus, R
0202	TuTh 7:00pm-10:00pm Prerequisite: PSYC 100 or EDHD 306 or permission of department. Practical aspects for helping and working with children, drawing on research, clinical studies, and observation. Implications for day care and other public issues.	Bldg. EDU, Room 2101	Marcus, R

**EDHD cont.**

<b>EDHD 460</b>	<b>Educational Psychology 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	TuTh 7:00pm-10:00pm	Bldg. EDU, Room 2101	Staff
0201	MW 7:00pm-10:00pm	Bldg. EDU, Room 0114	Staff
	An overview of the multidisciplinary, scientific principles which describe human development and learning processes and theories. Individual differences, measurement, motivation, emotions, intelligence, attitudes, problem solving, thinking and communicating in educational settings. (May not be substituted for EDHD 300 by students in professional teacher education programs.)		
<b>EDHD 498</b>	<b>Special Problems in Education 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDHD 498T</b>	<b>Workshops, Clinics, and Institutes: The Study of the Older Woman 3 credits; Grading Method: REG</b>		
0201	MW 1:00pm-3:45pm	Bldg. EDU, Room 1107	Staff
<b>EDHD 600</b>	<b>Introduction to Human Development and Child Study 3 credits; Grading Method: REG/AUD</b>		
0101	MW 7:00pm-10:00pm	Bldg. EDU, Room 1121	Flatter, C
	An overview of the multidisciplinary, scientific principles which describe human development and behavior and an application of these principles in an analysis of a behavioral record. Techniques of observation, recording, and analysis of human behavior. Emphasis on critiquing and applying research findings.		
<b>EDHD 619T</b>	<b>Advanced Scientific Concepts in Human Development: The Study of the Older Women 3 credits; Grading Method: REG</b>		
0201	MW 1:00pm-3:45pm	Bldg. EDU, Room 1107	Staff
<b>EDHD 640</b>	<b>The Adult Learner 3 credits; Grading Method: REG</b>		
0101	TuTh 4:00pm-7:00pm	Bldg. EDU, Room 1203	Robertson-Tchabo, E
	Changes in adult learning/cognitive processes and factors that may affect an individual's selection and performance of learning tasks; includes discussion of both theoretical issues and proposed applications of research on adult learning.		
<b>EDHD 701</b>	<b>Training the Parent Educator 3 credits; Grading Method: REG</b>		
0101	MW 4:00pm-7:00pm	Bldg. EDU, Room 1203	Flatter, C
	Recommended: course in child development. History, philosophy, and ethics of parent education, and examination of issues critical to the design, implementation, and evaluation of parent education programs. Training in communication and leadership skills.		
<b>EDHD 721</b>	<b>Learning Theory and the Educative Process 1.3 credits; Grading Method: REG/AUD</b>		
0101	TuTh 7:00pm-10:00pm	Bldg. EDU, Room 1121	Eliot, J
0201	TuTh 7:00pm-10:00pm	Bldg. EDU, Room 1107	Staff
	Major theories, issues and research in learning and cognitive development. Emphasis on the application of these theories to education and the helping professions.		
<b>EDHD 789</b>	<b>Internship in Human Development 3-8 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDHD 798</b>	<b>Special Problems in Education 1-6 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDHD 798</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDHD 888</b>	<b>Apprenticeship in Education 1-8 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDHD 888</b>	<b>Internship in Education 3-8 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDHD 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

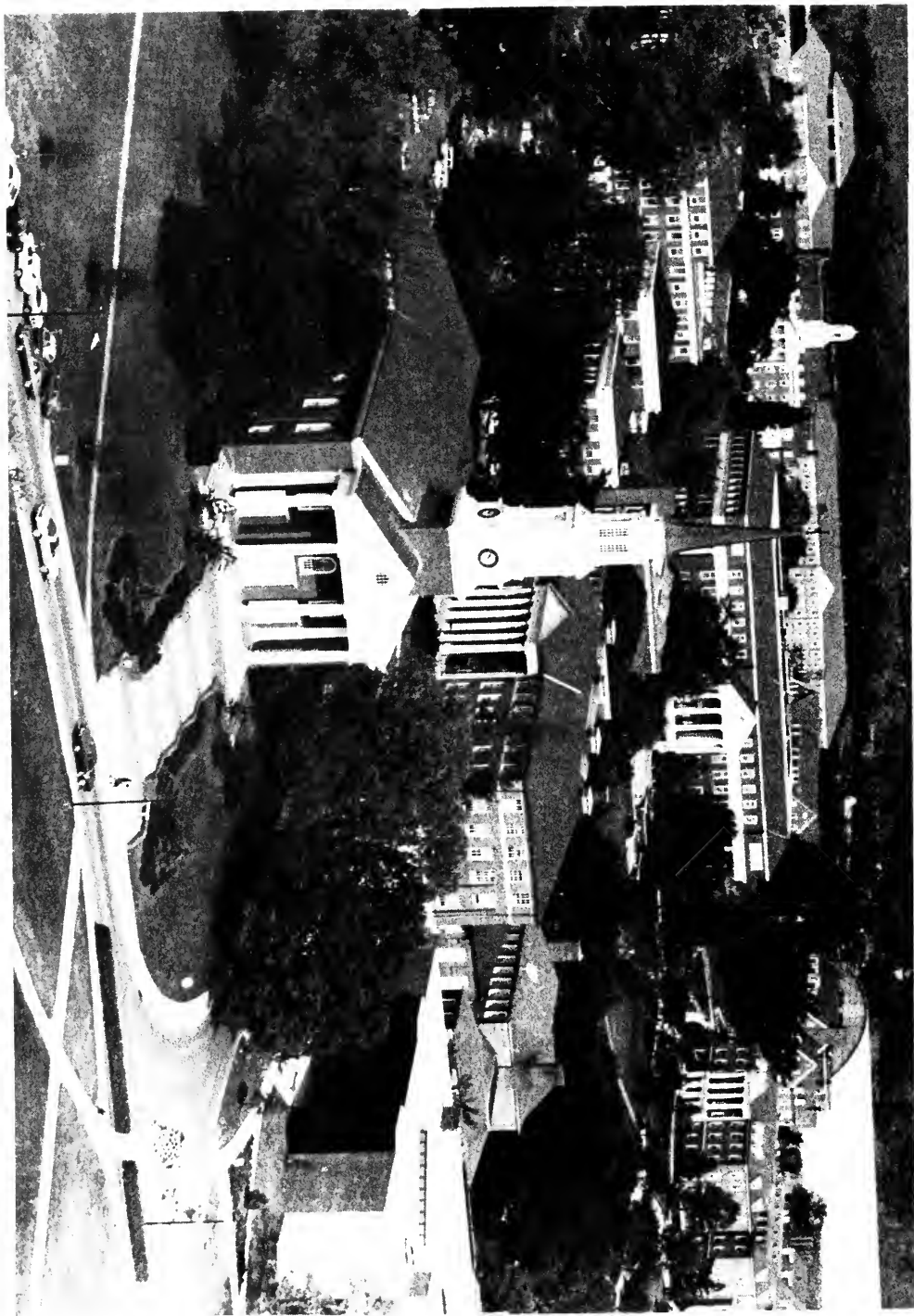
**EDIT**

**INDUSTRIAL, TECHNOLOGICAL AND OCCUPATIONAL EDUCATION (EDUCATION)**

<b>EDIT 101</b>	<b>Mechanical Drawing I 2 credits; Grading Method: REG/AUD</b>		
0101	MW 5:00pm-10:00pm	Bldg. JMP, Room 2108	Staff
	An introduction to orthographic multi-view and isometric projection. The visualization and making of a multi-view drawing. Auxiliary views, sectional views, dimensioning, conventional representation and single stroke letters.		
<b>EDIT 102</b>	<b>Fundamentals of Woodworking 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	MtUWTh 8:30am-12:00pm	Bldg. JMP, Room 1210	Smith, J
	An orientation into the woodworking industry, materials, products and processes, provides skill development in the care and use of hand and power tools.		
<b>EDIT 114</b>	<b>Principles of Typewriting 2 credits; Grading Method: REG</b>		
0101	MtUWTh 9:30am-10:50am	Bldg. JMP, Room 2115	Peters, R
	The attainment of the ability to operate the typewriter at keyboard continuously with reasonable speed and accuracy by the "touch".		
<b>EDIT 121</b>	<b>Mechanical Drawing II 2 credits; Grading Method: REG/AUD</b>		
0101	MW 5:00pm-10:00pm	Bldg. JMP, Room 2108	Staff
	Prerequisite: EDIT 101. Working drawings, machine design, pattern layouts, tracing and reproduction; detailings and assemblies.		
<b>EDIT 180</b>	<b>Design Illustrating I 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 4:00pm-10:00pm	Bldg. JMP, Room 2229	Staff
0201	MW 4:00pm-10:00pm	Bldg. JMP, Room 2108	Staff
	Intended for advertising, interior, landscape design and horticulture majors. The use of instruments, equipment, and materials; lettering, line technique; geometric construction; and projection theory. Pictorial representation, particularly isometric, oblique, and one and two point perspective.		
<b>EDIT 202</b>	<b>Machine Woodworking 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	MtUWTh 8:30am-12:00pm	Bldg. JMP, Room 1210	Smith, J
	Prerequisite: EDIT 102 or equivalent. The development of comprehensive knowledge of machine woodworking with emphasis on mass production practices, specialty cuts, laminating, maintenance, and consumer understanding.		
<b>EDIT 224</b>	<b>Organized and Supervised Work Experiences I 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Sullivan, D
0102	Time Arranged	Room Arranged	Sullivan, D
0201	Time Arranged	Room Arranged	Elkins, R
	A work experience for students enrolled in the industrial technology program. Opportunities for first-hand experiences with business and industry. Students are responsible for obtaining their own employment, with coordinator advising them about job opportunities with optimum learning value. The nature of the work experience desired is outlined at the outset of employment and then evaluations made by the student and the coordinator are based upon the planned experiences. The minimum time is 240 work hours. The work experience must be served through continuous employment in a single establishment.		

**EDIT cont.**

<b>EDIT 232</b>	<b>Fundamentals of Automotive Technology 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 4:00pm-10:00pm	Bldg. JMP, Room 2123	Jones, B
	Designed for non-industrial education majors interested in learning the theory and practical operation of the automobile. Mechanical, lubrication, cooling, fuel and electrical systems.		
<b>EDIT 234</b>	<b>Graphic Communications 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MtUWTh 9:00am-12:00pm	Bldg. JMP, Room 2202	McLaughlin Jr., C
	Graphic reproduction processes and related areas used to communicate. Offset, letterpress, screen, gravure, engraving lithographic, and electrostatic duplication; and relevant history, safety, layout and design, composition, photo conversion, image carriers, image transfer, finishing, binding, paper and ink.		
<b>EDIT 324</b>	<b>Organized and Supervised Work Experiences II 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	Time Arranged	Room Arranged	Elkins, R
	A work experience for students enrolled in the industrial technology program. Continuation of EDIT 234.		
<b>EDIT 350</b>	<b>Methods of Teaching: Trades and Industrial Education 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	MtUWTh 8:00am-9:20am	Bldg. JMP, Room 3225	Schume, J
	Intended for vocational and occupational teachers. The identification and analysis of factors essential to helping others learn; types of teaching situations and techniques; measuring results and grading student progress in laboratory and related technical subjects.		
<b>EDIT 406</b>	<b>Word Processing 3 credits; Grading Method: REG/AUD</b>		
0101	MW 4:00pm-7:00pm	Bldg. JMP, Room 3106	Marshall, S
	An introduction to the word processing field with emphasis on word processing theory and concepts including hands-on equipment training. Management of office personnel, procedures, and equipment; the incorporation of word processing into the school curriculum, the automated office of the future and career opportunities.		
<b>EDIT 412</b>	<b>Management of Physical Facilities in Industrial Arts and Vocational Education 1 credit; Grading Method: REG/P-F/AUD</b>		
0101	TuTh 4:00pm-7:00pm	Bldg. JMP, Room 3201	Stough, K
	Principles, practices, and theory related to the role of the departmental chairperson charged with the management of the physical facilities in vocational, technical, and industrial arts laboratories.		
<b>EDIT 434</b>	<b>Color Reproduction in Graphic Communications 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MtUWTh 9:00am-12:00pm	Bldg. JMP, Room 2202	McLaughlin Jr., C
	Prerequisites: [EDIT 234; and EDIT 334; and EDIT 335] or equivalent. An advanced course in the theory and processes of color graphic reproduction. Includes color photography, flat color preparation, process color separations and the reproduction of a multi-color product on a semi-automatic or automatic printing press.		
<b>EDIT 457</b>	<b>Tests and Measurements 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	TuTh 7:00pm-10:00pm	Bldg. JMP, Room 3201	Slough, K
	The construction of objective tests for occupational and vocational subjects. Use of measures in domains of learning and examination of test analysis techniques.		
<b>EDIT 460</b>	<b>Design Illustrating II 2 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 5:00pm-10:00pm	Bldg. JMP, Room 2229	Staff
0201	MW 5:00pm-10:00pm	Bldg. JMP, Room 2229 (LAB)	Staff
	Prerequisite: EDIT 160. Advanced drawing, rendering, shadow construction, lettering techniques and advanced technical representation techniques.		
<b>EDIT 461</b>	<b>Principles of Vocational Guidance 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	TuTh 4:00pm-7:00pm	Bldg. JMP, Room 3104	Mietus, W
	The underlying principles of guidance and their application to the problems of educational and occupational adjustment of students of all ages.		
<b>EDIT 462</b>	<b>Occupational Analysis and Course Construction 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	MtUWTh 9:30am-10:50am	Bldg. JMP, Room 1202	Herschbach, D
0202	MtUWTh 12:30pm-2:00pm	Bldg. JMP, Room 1202	Herschbach, D
	Application of the techniques of occupational and job analysis concepts to instructional development and the design of occupational programs.		
<b>EDIT 464</b>	<b>Laboratory Organization and Management 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	MtUWTh 11:00am-12:20pm	Bldg. JMP, Room 2202	Beatty, C
	The basic elements of organizing and managing an industrial education program, the selection of equipment, facility development, legal responsibilities of laboratory instructors, inventory, storage control and safety.		
<b>EDIT 471</b>	<b>History and Principles of Vocational Education 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 4:00pm-7:00pm	Bldg. JMP, Room 1202	Luftkemeyer, J
	The development of vocational education from primitive times to the present with special emphasis given to the vocational education movement with the American program of public education.		
<b>EDIT 474</b>	<b>Organization and Administration of Youth Groups 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Meets JUN 26 to JUL 14	Room Arranged	Mietus, W
	Principles, practices, and theoretical considerations related to youth organizations as a co-curricular function of the subject areas of industrial arts, business and marketing education, home economics, health occupations and trades and industry.		
<b>EDIT 476</b>	<b>Application of Technology to Societal Problems 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Meets USP Advanced Studies Analysis of Human Problems requirement.		
0102	MW 7:00pm-10:00pm	Bldg. JMP, Room 3201	Staff
0103	TuTh 7:00pm-10:00pm	Bldg. JMP, Room 3104	Staff
	A study of alternative solutions of a technological nature with respect to such areas as housing, transportation, energy, communications, production, trash and waste disposal, water development, and pollution control.		
<b>EDIT 486</b>	<b>Field Experiences in Marketing and Distributive Education 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Peters, R
<b>EDIT 488A</b>	<b>Selected Topics in Education: Office Technology and Automation 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 7:00pm-10:00pm	Bldg. JMP, Room 1202	Boyce, J
<b>EDIT 488M</b>	<b>Selected Topics in Education: Ethical Actions and the Family 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Meets JUN 5 to JUN 23	Room Arranged	Hultgren, F
0102	Time Arranged	Room Arranged	Hultgren, F
<b>EDIT 488R</b>	<b>Selected Topics in Education: Robots in Industry 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 7:00pm-10:00pm	Bldg. JMP, Room 2201	Milligan, D
	Programming and simulation in production and manufacturing using robotic and automatic theory and practice.		
<b>EDIT 498</b>	<b>Special Problems in Education 1-6 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff



**EDIT cont.**

EDIT 499D	Workshops, Clinics, and Institutes: Professional Transition for Vocational Teachers 1-3 credits; Grading Method: REG/P-FAUD		
0201	Time Arranged	Room Arranged	Beatty, C
EDIT 499R	Workshops, Clinics, and Institutes: Work Experience, Trade Advancement 1-6 credits; Grading Method: REG/P-FAUD		
0101	Time Arranged	Room Arranged	Luatkemeyer, J
0201	Time Arranged	Room Arranged	Luatkemeyer, J
Students must make prior arrangements with an advisor to participate in workshops that are formally arranged by corporations, businesses, others, and document their participation. One week (40 hours) participation along with a written implementation plan is needed per credit.			
EDIT 600	Administration and Supervision of Business Education 3 credits; Grading Method: REG/P-FAUD		
0101	MW 4:00pm-7:00pm	Blgd. JUMP, Room 2202	Peters, R
Major emphasis on departmental organization and its role in the school program, curriculum, equipment, budget-making, supervision, guidance, placement and follow-up, school-community relationships, qualifications and selection of teaching staff, visual aids, and in-service programs for teacher development. For administrators, supervisors, and teachers.			
EDIT 788A	Selected Topics in Education: Office Technology and Automation 3 credits; Grading Method: REG/AUD		
0101	MW 7:00pm-10:00pm	Blgd. JUMP, Room 1202	Boycu, J
EDIT 788M	Selected Topics in Education: Ethical Actions and the Family 3 credits; Grading Method: REG/AUD		
0101	Meets JUN 5 to JUN 23	Room Arranged	Hultgran, F
EDIT 796	Special Problems in Education 1-6 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDIT 799	Master's Thesis Research 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDIT 888	Apprenticeship in Education 1-8 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDIT 889	Internship in Education 3-8 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDIT 899	Doctoral Dissertation Research 1-8 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**EDMS**

**MEASUREMENT, STATISTICS, AND EVALUATION (EDUCATION)**

EDMS 451	Introduction to Educational Statistics 3 credits; Grading Method: REG/AUD		
Meets USP Advanced Studies Development of Knowledge requirement. BMGT, PSYC, and ECON majors and possibly others: a student whose program requires a different introductory applied statistics course may not use EDMS 451 to satisfy the USP Advanced Studies requirement.			
0101	MTuWThF 8:00am-9:20am	Blgd. EDU, Room 4233	Macreayd, G
0102	MTuWThF 9:30am-10:50am	Blgd. EDU, Room 4233	Macreayd, G
0102	NWThF 10:00am-10:50am	Blgd. EDU, Room 4233	DaAyala, R
0202	MTuWThF 11:00am-12:20pm	Blgd. EDU, Room 4233	Staff
Designed as a first course in statistics for students in education. Emphasis is upon educational applications of descriptive statistics, including measures of central tendency, variability and association. Also included are inferential statistics through one-way ANOVA.			
EDMS 645	Quantitative Research Methods I 3 credits; Grading Method: REG/AUD		
0101	MTuWTh 4:30pm-6:10pm	Blgd. EDU, Room 0212	Dayton, C
0201	MTuWThF 11:00am-12:20pm	Blgd. EDU, Room 4233	DaAyala, R
Introduction to research design principles and the scientific method as applied to behavioral phenomena. Instrumentation procedures including the planning and construction of simple data collection instruments and their analysis, and assessment of the reliability and validity of such instruments. Statistical procedures appropriate to the analysis of data from simple research designs.			
EDMS 646	Quantitative Research Methods II 3 credits; Grading Method: REG/AUD		
0101	MTuWTh 7:00pm-8:40pm	Blgd. EDU, Room 0212	Dayton, C
0201	MTuWThF 9:30am-10:50am	Blgd. EDU, Room 1107	Schafer, W
Prerequisite: EDMS 645. Special problems arising in the implementation of educational research designs. Instrumentation to measure attitudes and collection of questionnaire data. Additional statistical procedures appropriate to the analysis of education research designs. Laboratory experiences in instrumentation and research design are emphasized.			
EDMS 651	Intermediate Statistics in Education 3 credits; Grading Method: REG/AUD		
0201	MTuWThF 11:00am-12:20pm	Blgd. EDU, Room 1107	Schafer, W
Distributional theory; Chi-square analysis of contingency tables, analysis of variance; introduction to multiple correlation and regression.			
EDMS 796	Special Problems in Education 1-6 credits; Grading Method: REG/AUD		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDMS 799	Master's Thesis Research 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDMS 899	Doctoral Dissertation Research 1-8 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**EDPA**

**EDUCATION POLICY, PLANNING AND ADMINISTRATION (EDUCATION)**

EDPA 301	Foundations of Education 3 credits; Grading Method: REG/P-FAUD		
0101	MW 7:00pm-10:00pm	Blgd. EDU, Room 0114	Lindsay, R
0102	TuTh 7:00pm-10:00pm	Blgd. EDU, Room 2119	Noll, J
0201	TuTh 7:00pm-10:00pm	Blgd. EDU, Room 2102	Mala, G
Historical, social, cultural, and philosophical foundations of American education. Considers education as a profession, and the organizational structure, operation and function of modern school systems. Comparative education and contemporary issues are included.			
EDPA 400	The Future of the Human Community 3 credits; Grading Method: REG/P-FAUD		
Meets USP Advanced Studies Analysis of Human Problems requirement.			
0101	TuTh 7:00pm-10:00pm	Blgd. EDU, Room 2102	Staff
0201	MW 7:00pm-10:00pm	Blgd. EDU, Room 1107	Splaine, J
0202	TuTh 7:00pm-10:00pm	Blgd. EDU, Room 0114	Splaine, J
Examination of the future of our social and cultural institutions for education and child rearing, social and family relationships, health and leisure, information exchange, and the provision of food,			

**EDPA cont.**

EDPA 498	Special Problems in Education 1-3 credits; Grading Method: REG/P-FAUD		
clothing, and shelter.			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDPA 610	History of Western Education 3 credits; Grading Method: REG/AUD		
0101	MW 4:00pm-7:00pm	Blgd. EDU, Room 2203	Lindsay, R
Educational institutions through the ancient, medieval and early modern periods in western civilization, as seen against a background of socio-economic development.			
EDPA 620	Education Policy Analysis 3 credits; Grading Method: REG/AUD		
0201	TuTh 7:00pm-10:00pm	Blgd. EDU, Room 1203	Agre, G
Policy making in education from planning to evaluation with emphasis on the identification of policy problems and the resources available to analysts through multi-disciplinary approaches. An introductory experience with education policy analysis.			
EDPA 622	Education Policy, Values, and Social Change 3 credits; Grading Method: REG/AUD		
0101	TuTh 4:00pm-7:00pm	Blgd. EDU, Room 3233	Hopkins, R
0102	TuTh 4:00pm-7:00pm	Blgd. EDU, Room 3236	Staff
Prerequisite: EDPA 620. Examination of relationships among educational policy, values, and social change. Roles of educational organizations and institutional change in such social issues as equity and cultural diversity.			
EDPA 634	The School Curriculum 3 credits; Grading Method: REG/AUD		
0201	TuTh 4:00pm-7:00pm	Blgd. EDU, Room 3206	Selden, S
A foundations course embracing the curriculum as a whole from early childhood through adolescence, including a review of historical developments, an analysis of conditions affecting curriculum change, an examination of issues in curriculum making, and a consideration of current trends in curriculum design.			
EDPA 635	Principles of Curriculum Development 3 credits; Grading Method: REG/AUD		
0101	MW 4:00pm-7:00pm	Blgd. EDU, Room 1121	Berman, L
Curriculum planning, improvement, and evaluation in the schools, principles for the selection and organization of the content and learning experiences; ways of working in classroom and school on curriculum improvement.			
EDPA 660	Administrative Foundations 3 credits; Grading Method: REG/AUD		
0101	MW 4:00pm-7:00pm	Blgd. EDU, Room 3233	Held, C
Develops a theoretical and research based structure for the study and practice of administration in the field of education.			
EDPA 661	Administrative Behavior and Organizational Management 3 credits; Grading Method: REG/AUD		
0201	MW 4:00pm-7:00pm	Blgd. EDU, Room 0206	Goldman, H
Critical analysis of organizational management governance and management (informal and formal dimensions), and of contributions from other fields (traditional and emerging) to the study of administrative behavior.			
EDPA 662	Administrative Processes 3 credits; Grading Method: REG/AUD		
0101	TuTh 4:00pm-7:00pm	Blgd. EDU, Room 0202	Laak, L
Develops competence with respect to selected administrative process areas.			
EDPA 663	Policy Formulation in Education 3 credits; Grading Method: REG/AUD		
0101	MW 7:00pm-10:00pm	Blgd. EDU, Room 3233	Held, C
Various levels of school governance. Analysis of policy formation, administration and evaluation issues.			
EDPA 690	Research in Education Policy, Planning and Administration 3 credits; Grading Method: REG/AUD		
0201	MW 4:00pm-7:00pm	Blgd. EDU, Room 1203	Agre, G
Introduction to research methods and designs used in studies of education policy, planning, and administration.			
EDPA 700	Qualitative Research Methods in Education 3 credits; Grading Method: REG/AUD		
0101	TuTh 7:00pm-10:00pm	Blgd. EDU, Room 2203	Huden, D
0102	TuTh 7:00pm-10:00pm	Blgd. EDU, Room 3236	Hopkins, R
Qualitative methods in education research, emphasizing the paradigms of philosophy, history, sociology, anthropology, and comparative studies as they rely on narrative rather than quantitative ordering of data.			
EDPA 772	Practicum in Leadership Behaviors 3 credits; Grading Method: REG/AUD		
0201	Meets JUL 17 to AUG 3	Blgd. EDU, Room 3233	Goldman, H
MTuWTh 9:00am-12:40pm			
Prerequisites: EDPA 660 and EDPA 661, or permission of department. Practicum in the use of social exchange behaviors in administrative/leadership situations. Emphasis on development and refinement of exchange behaviors enhancing employee commitment and productivity in human service organizations.			
EDPA 788F	Special Topics in Education Policy and Administration: Comparing Education in Japan and the United States 3 credits; Grading Method: REG/AUD		
0101	MW 7:00pm-10:00pm	Blgd. EDU, Room 1203	Finkelstein, B
EDPA 798	Special Problems in Education 1-6 credits; Grading Method: REG/AUD		
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDPA 799	Master's Thesis Research 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDPA 899	Doctoral Dissertation Research 1-8 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**EDSP**

**EDUCATION, SPECIAL (EDUCATION)**

EDSP 210	Introduction to Special Education 3 credits; Grading Method: REG/AUD		
0201	MW 4:00pm-7:00pm	Blgd. EDU, Room 1121	Maag, J
Characteristics and needs of children with handicaps. Current issues in special education.			
EDSP 402	Field Placement: Severely Handicapped I 2-5 credits; Grading Method: REG		
Permission of department required. Students without the required co- or prerequisites can register for this course with departmental approval. Open to special education graduate students only for this term.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDSP 421	Field Placement: Early Childhood Special Education I 2-3 credits; Grading Method: REG		
Permission of department required. Students without the required pre- or corequisites can register for this course with departmental approval. Open to special education graduate students only for this term.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDSP 403	Field Placement: Severely Handicapped II 2-5 credits; Grading Method: REG		
Pre- or corequisite: IEDSP 400, and EDSP 402, or permission of department. Practicum experience in settings serving severely handicapped individuals. Enrollment limited to those admitted to severely handicapped specialty area. Field placement for two to five half-days per week.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDSP 422	Field Placement: Early Childhood Special Education I 2-3 credits; Grading Method: REG		
Permission of department required. Students without the required pre- or corequisites can register for this course with departmental approval. Open to special education graduate students only for this term.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
EDSP 404	Field Placement: Severely Handicapped III 2-5 credits; Grading Method: REG		
Pre- or corequisite: IEDSP 410 and EDSP 420, or permission of department. Practicum experience in settings serving preschool handicapped children. Opportunities for studying the patterns of development and learning among nonhandicapped and handicapped infants and older preschoolers. Enrollment limited to students admitted to early childhood specialty. Field placement for two or			

**EDSP cont.**

three half-days per week.			
<b>EDSP 442</b>	<b>Field Placement: Educationally Handicapped 1-2-3 credits; Grading Method: REG</b> Permission of department required. Students without the required co- or prerequisites can register for this course with departmental approval. Open to special education graduate students only for this term.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
Pre- or co-requisite: [EDSP 441 and EDCL 456] or permission of department. Practicum experience in settings serving educationally handicapped individuals and the construction of the content of EDSP 441. Enrollment limited to students admitted to educationally handicapped specialty. Field placement for two or three half-days per week.			
<b>EDSP 461</b>	<b>Field Placement: Career/Vocational 1-2-3 credits; Grading Method: REG</b> Permission of department required. Students without the required pre- or co-requisites can register for the course with departmental approval. Open to special education graduate students only for this term.	Room Arranged	Staff
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
Pre- or co-requisite: [EDSP 460; and EDSP 456; and EDTT 421] or permission of department. For EDSP majors only. Practicum experience in career vocational education for the handicapped. Field placement for two or three half-days per week.			
<b>EDSP 470</b>	<b>Introduction to Special Education 3 credits; Grading Method: REG/AUD</b> Open to all students except undergraduate special education majors.	Room Arranged	Staff
0101	TuTh 4:00pm-7:00pm	Bldg. EDU, Room 2119	Cooper, D
Designed to give an understanding of the needs of all types of exceptional children.			
<b>EDSP 475</b>	<b>Education of the Slow Learner 3 credits; Grading Method: REG/AUD</b> MW 7:00am-10:00am	Bldg. EDU, Room 2101	Simms, B
Studies the characteristics of the slow learner and those educational practices which are appropriate for the child who is functioning as a slow learner.			
<b>EDSP 491</b>	<b>Characteristics of Learning Disabled Students 3 credits; Grading Method: REG/AUD</b> TuTh 7:00am-10:00am	Bldg. EDU, Room 1107	Harris, K
This course is planned for elementary education majors to study possibilities for the teaching of science and social studies within an environmental context, and to apply this information by demonstration of selected procedures, construction of materials, and class participation. The goals of this course are to provide the student with (a) background and understanding about science and social studies curricula to enable the student to think and act intelligently and creatively in a classroom situation, (b) ability to plan and teach lessons to children in an elementary school setting, (c) ability to develop and evaluate material for science and social studies instruction, and (d) understanding of content, values and skills and process goals in elementary science and social studies. Open to all students but special population of teachers from Howard County. Diagnosis, etiology, physical, social, and emotional characteristics of learning disabled students.			
<b>EDSP 498</b>	<b>Special Problems in Special Education 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDSP 498R</b>	<b>Special Problems in Special Education: The Handicapped Child in the Regular Classroom 3 credits; Grading Method: REG/AUD</b> 0101 MW 4:00pm-7:00pm	Bldg. EDU, Room 2119	Habeler, J
Course designed for Maryland state certification. To assist regular educators in working with handicapped students in their school settings. Deals with the philosophy, legal provisions, relevant characteristics of handicapped students, modification in educational programs and relevant resources for the regular educator.			
<b>EDSP 600</b>	<b>Exceptional Children and Youth 3 credits; Grading Method: REG/AUD</b> 0101 TuTh 4:00pm-7:00pm	Bldg. EDU, Room 3315	Speece, D
Prerequisite: 9 hours in special education and permission of department. Examines research related to the education of exceptional children and youth.			
<b>EDSP 798</b>	<b>Special Problems in Special Education 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDSP 798R</b>	<b>Special Problems in Special Education: The Handicapped Child in the Regular Classroom 3 credits; Grading Method: REG/AUD</b> 0101 MW 4:00pm-7:00pm	Bldg. EDU, Room 2119	Habeler, J
Course designed for Maryland state certification. To assist regular educators in working with handicapped students in their school settings. Deals with the philosophy, legal provisions, relevant characteristics of handicapped students, modification in educational programs and relevant resources for the regular educator.			
<b>EDSP 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDSP 888</b>	<b>Apprenticeship in Special Education 1-8 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDSP 889</b>	<b>Internship in Special Education 3-8 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>EDSP 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ENAE****ENGINEERING, AEROSPACE (ENGINEERING)**

<b>ENAE 201</b>	<b>Introduction to Aerospace Engineering 1 2 credits; Grading Method: REG/P-F/AUD</b> 0101 MTuWThF 8:00am-9:20am	Bldg. EGR, Room 2154	Wrightside, R
Prerequisite: ENAE 110 History of aeronautical engineering, technical fundamentals, the standard atmosphere, basic aerodynamics, and the aerodynamics of airfoils, wings and other aerodynamic shapes.			
<b>ENAE 202</b>	<b>Introduction to Aerospace Engineering II 2 credits; Grading Method: REG/P-F/AUD</b> 0201 MTuWThF 8:00am-9:20am	Bldg. EGR, Room 0108	Wrightside, R
Prerequisite: ENAE 201. Elements of airplane performance. Principles of airplane stability and control. Basic astronautics, including orbital and escape trajectories, flight propulsion fundamentals, propellers, IC engines, jet and rocket engines.			
<b>ENAE 345</b>	<b>Flight Dynamics 3 credits; Grading Method: REG/P-F/AUD</b> 0101 MTuWThF 8:00am-9:20am	Bldg. EGR, Room 0108	Regan, F
Prerequisites: ENAE 221; and MATH 246. Kinematics and concept of system state. Dynamic principles applied to particles, discrete mass and continuously distributed mass systems, LaGrange dynamics, dynamic stability of systems, applications to dynamics of aerospace vehicles and vehicle components.			
<b>ENAE 371</b>	<b>Aerodynamics 1 3 credits; Grading Method: REG/P-F/AUD</b> 0101 MTuWThF 9:30am-10:50am	Bldg. EGR, Room 0110	Jones, E
Prerequisites: ENAE 302; and PHYS 262; and MATH 241. Corequisite: MATH 246. Basic fluid mechanics and aerodynamic theory.			
<b>ENAE 475</b>	<b>Viscous Flow and Aerodynamic Heating 3 credits; Grading Method: REG</b> 0101 MTuWThF 8:00am-9:20am	Bldg. EGR, Room 1120	Jones, E
Prerequisites: ENAE 371; and ENAE 471; and ENME 217. Fundamental aspects of viscous flow, Navier-Stokes equations, similarity, boundary layer equations; laminar, transitional and turbulent incompressible flows on airfoils, thermal boundary layers and convective heat transfer; conduction through solids, introduction to radiative heat transfer.			

**ENAE cont.**

<b>ENAE 499</b>	<b>Elective Research 1-3 credits; Grading Method: REG/P-F/AUD</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENAE 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENAE 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ENAG****ENGINEERING AGRICULTURAL (AGRICULTURE)**

<b>ENAG 489</b>	<b>Special Problems in Agricultural Engineering 1-3 credits; Grading Method: REG/P-F/AUD</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENAG 499</b>	<b>Special Problems in Agricultural Engineering Technology 1-3 credits; Grading Method: REG/P-F/AUD</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENAG 699</b>	<b>Special Problems in Agricultural and Aquacultural Engineering 1-6 credits; Grading Method: REG/AUD</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENAG 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENAG 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ENCE****ENGINEERING, CIVIL (ENGINEERING)**

<b>ENCE 489</b>	<b>Special Problems 3 credits; Grading Method: REG/P-F/AUD</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENCE 688</b>	<b>Advanced Topics in Civil Engineering 1-3 credits; Grading Method: REG/AUD</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENCE 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENCE 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ENCH****ENGINEERING, CHEMICAL (ENGINEERING)**

<b>ENCH 215</b>	<b>Chemical Engineering Analysis 3 credits; Grading Method: REG</b> 0101 MTuWThF 9:30am-10:50am	Bldg. CHE, Room 2145	Staff
Prerequisite: CHEM 104. Pre- or co-requisite: MATH 141. Introduction to methods of chemical engineering calculations and analysis. Stoichiometric relations, material and energy balances, and behavior of gases, vapors, liquids and solids. Analytical and computer methods.			
<b>ENCH 280</b>	<b>Transport Processes I; Fluid Mechanics 2 credits; Grading Method: REG</b> 0201 MTuWThF 2:00pm-3:20pm	Bldg. CHE, Room 2140	Staff
Pre- or co-requisite: MATH 246. Fluid properties, fluid statics, flow concepts and basic equations, viscous effects. Applications in measurement of flow, closed conduit flow, packed bed and other chemical engineering systems.			
<b>ENCH 427</b>	<b>Transport Processes III; Mass Transfer 3 credits; Grading Method: REG</b> 0201 MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 2140	Staff
Prerequisite: ENCH 425. Steady and unsteady state molecular diffusion, inter-phase transfer, simultaneous heat and mass transfer, boundary layer theory, mass transfer and chemical reaction. Design applications in humidification, gas absorption, distillation, extraction, adsorption and ion exchange.			
<b>ENCH 437</b>	<b>Chemical Engineering Laboratory 3 credits; Grading Method: REG/P-F/AUD</b> 0101 TuTh 11:00am-5:00pm	Bldg. CHE, Room 1145	Staff
Prerequisites: ENCH 427; and ENCH 440; and ENCH 442. Application of chemical engineering process and unit operation principles in small scale semi-commercial equipment. Data from experimental observations are used to evaluate performance and efficiency of operations. Emphasis on correct presentation of results in report form.			
<b>ENCH 440</b>	<b>Chemical Engineering Kinetics 3 credits; Grading Method: REG</b> Permission of department required.		
0101	MTuWThF 11:00am-12:20pm	Bldg. CHE, Room 2136	Staff
Prerequisites: ENCH 300; and ENCH 425; and CHEM 481. Fundamentals of chemical reaction kinetics and their application to the design and operation of chemical reactors. Reaction rate theory, homogeneous reactions and analysis electrochemical reactions. Catalytic reactor design.			
<b>ENCH 442</b>	<b>Chemical Engineering Systems Analysis 3 credits; Grading Method: REG</b> Permission of department required.	Bldg. CHE, Room 2140	Staff
0201	MTuWThF 9:30am-10:50am		
Prerequisites: ENCH 300; and ENCH 425. Dynamic response applied to process systems. Goals and modes of control, Laplace transformations, analysis and synthesis of simple control systems, closed loop response, dynamic testing.			
<b>ENCH 468</b>	<b>Research 1-3 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENCH 648</b>	<b>Special Problems in Chemical Engineering 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENCH 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>ENCH 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b> 0101 Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff



# ENCO (ENGINEERING)

**ENGINEERING, COOPERATIVE EDUCATION (ENGINEERING)**  
**ENCO 098 Co-Op Work Experience No credit; Grading Method: S-F**  
 Permission of department required. Completion of freshman and sophomore engineering requirements.

0101	Time Arranged	Room Arranged	Sauber, H
0201	Time Arranged	Room Arranged	Sauber, H

# ENEE (ENGINEERING)

**ENGINEERING, ELECTRICAL (ENGINEERING)**  
**ENEE 204 Systems and Circuits I 3 credits; Grading Method: REG**  
 Permission of department required. Engineering College only (04).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3108	Staff
	MTuWTh 11:00am-12:00pm		
	Prerequisite: MATH 141. Required of sophomores in electrical engineering. Kirchhoff's laws, linear, nonlinear, and time-varying elements of systems and circuits. Solution of circuit differential equations, zero input, zero state, and complete response. Coupled elements, ideal transformers, controlled sources. Nodal and mesh analysis in the time domain.		

**ENEE 250 Computer Structures 3 credits; Grading Method: REG**  
 Permission of department required. Engineering College only (04).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1106	Staff
	MTuWTh 9:30am-10:50am		
0102	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1108	Staff
	MTuWTh 11:00am-12:00pm		

Prerequisites: ENEE 24 or equivalent. Basic structure and organization of digital computers, number systems and data representation; assembly language (some simple assembly language programs will be run), introduction to system software; gates and memory elements; logic design of simple digital systems; reliability; hardware/software tradeoffs.

**ENEE 300 Principles of Electrical Engineering 3 credits; Grading Method: REG**  
 Permission of department required. Engineering College only (04).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3106	Staff
	MTuWTh 9:30am-10:50am		
0102	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3106	Staff
	MTuWTh 11:00am-12:00pm		

Prerequisites: MATH 241, PHYS 263. Corequisite: ENEE 301. Required of aerospace, mechanical and chemical engineers. Not applicable in the electrical engineering major program. Acceptable as prerequisite for some advanced ENEE courses. Analysis in linear systems, introduction to Laplace transforms, steady-state A-C transforms, introduction to the concepts of electromagnetic fields and electric machines.

**ENEE 301 Electrical Engineering Laboratory I credit; Grading Method: REG**  
 Permission of department required. Engineering College only (04).

0101	Meets JUN 5 to JUL 26	Bldg. EGL, Room 0122	Staff
	MW 12:30pm-3:30pm		
0102	Meets JUN 5 to JUL 26	Bldg. EGL, Room 0122	Staff
	TuTh 12:30pm-3:30pm		

Corequisite: ENEE 300. Experiments on the transient and steady-state response of linear circuits, electric machines, electron tubes and semi conductor devices. C All lower-division CHEM, MATH, PHYS and engineering courses that are required courses for the BS degree in Electrical Engineering must be completed before enrolling in any 300- or 400-ENEE course (except ENEE 300 and ENEE 301). Transfer students will be allowed one semester to complete all such courses after starting to take upper-level ENEE courses.

**ENEE 304 Systems and Circuits II 3 credits; Grading Method: REG**  
 Permission of department required. ENEE majors only (09090).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1126	Staff
	MTuWTh 9:30am-10:50am		

Pre- or corequisite: MATH 246. Prerequisite: ENEE 204 and completion of all lower-division technical courses in the EE curriculum. See above note. Simultaneous analysis. General mesh and node analysis. Analysis by Laplace transforms, network functions, network theorems. Two-port theory, controlled sources, small signal analysis of semiconductor devices. Fourier series.

**ENEE 305 Fundamental Laboratory 2 credits; Grading Method: REG**  
 Permission of department required. ENEE majors only (09090).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3114	Staff
	MW 12:30pm-1:30pm		
	Bldg. EGL, Room 0132 (LAB)		
0102	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3114	Staff
	TuTh 12:30pm-1:30pm		
	Bldg. EGL, Room 0132 (LAB)		

Prerequisite: ENEE 204 and completion of all lower-division technical courses in the EE curriculum. See above note. Concepts and techniques of physical measurements using standard electrical measuring devices: generators, oscilloscopes, voltmeters, etc. Measurements of linear and non-linear circuits; steady state and step response; integrated circuits. Handling and use of data. This course is prerequisite to all ENEE 400-level laboratory courses.

**ENEE 314 Electronic Circuits 3 credits; Grading Method: REG**  
 Permission of department required. ENEE majors (09090) only.

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1104	Staff
	MTuWTh 9:30am-10:50am		

Prerequisite: ENEE 304 and completion of all lower-division technical courses in the EE curriculum. See above note. Characteristics of semi-conductor devices: Diodes; biasing and stabilization of bipolar and field effect transistors; power amplifier characteristics. Feedback amplifiers, integrator, probability distributions and densities; functions of random variables; weak law of large numbers and central limit theorem. Introduction to random processes, correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

**ENEE 324 Engineering Probability 3 credits; Grading Method: REG**  
 Permission of department required. ENEE majors (09090) only.

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3140	Staff
	MTuWTh 9:30am-10:50am		

Prerequisite: ENEE 322 and completion of all lower-division technical courses in the EE curriculum. See above note. Axioms of probability; conditional probability and Bayes' rules; random variables; probability distributions and densities; functions of random variables; weak law of large numbers and central limit theorem. Introduction to random processes, correlation functions, spectral densities, and linear systems. Applications to noise in electrical systems, filtering of signals from noise, estimation, and digital communications.

**ENEE 380 Electromagnetic Theory 3 credits; Grading Method: REG**  
 Permission of department required. ENEE majors only (09090).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3108	Staff
	MTuWTh 8:00am-9:20am		

Prerequisites: MATH 241 and PHYS 263 and completion of all lower-division technical courses in the EE curriculum. See above note. Introduction to electromagnetic fields: Coulomb's law, Gauss's law, electrical potential, dielectric materials capacitance, boundary value problems, Biot-Savart law, Ampere's law, Lorentz force equation, magnetic materials, magnetic circuits, inductance, time varying fields and Maxwell's equations.

**ENEE 381 Electromagnetic Wave Propagation 3 credits; Grading Method: REG**  
 Permission of department required. ENEE majors (09090) only.

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 3140	Staff
	MTuWTh 11:00am-12:20pm		

Prerequisite: ENEE 380 and completion of all lower-division technical courses in the EE curriculum. See above note. Review of Maxwell's equations; the wave equation, potentials,

## ENEE cont.

Poynting's theorem, transmission, lossy medium, skin effect. Parallel-plate and rectangular wave-guides. Radiation, retarded potentials, radiation from dipole.

**ENEE 413 Electronics Laboratory 2 credits; Grading Method: REG**  
 Permission of department required. ENEE majors only (09090).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1110	Staff
	MW 12:30pm-1:30pm		
	Bldg. , Room (LAB)		
0102	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1110	Staff
	TuTh 12:30pm-1:30pm		
	Bldg. , Room (LAB)		

Prerequisites: ENEE 305 and ENEE 314 and completion of all lower-division technical courses in the curriculum. See above note. The specification, design and testing of basic electronic circuits and practical interconnections. Emphasis on design with discrete solid state and integrated circuit components for both analog and digital circuits.

**ENEE 418 Projects in Electrical Engineering 1-3 credits; Grading Method: REG**  
 Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ENEE 444 Logic Design of Digital Systems 3 credits; Grading Method: REG**  
 Permission of department required. ENEE majors only (09090).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1126	Staff
	MTuWTh 8:00am-9:20am		

Prerequisite: ENEE 250 and completion of all lower-division technical courses in the EE curriculum. See above note. Review of switching algebra, gates and logic modules; map simplification techniques; multiple-output systems; memory elements and sequential systems; large switching systems; iterative networks; sample designs, computer oriented simplification algorithms; state assignment; partition techniques; sequential system decompositions.

**ENEE 609A Projects in Electrical Engineering: Projects in Electrical Engineering: Independent Study 1-3 credits; Grading Method: REG/AUD**  
 Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ENEE 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Fuja, T

**ENEE 899 Doctoral Dissertation Research 1-6 credits; Grading Method: REG**  
 Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

# ENES (ENGINEERING)

**ENES 101 Introductory Engineering Science 3 credits; Grading Method: REG/P/AUD**

0101	Meets JUN 5 to JUL 26	Bldg. CHE, Room 2136	Staff
	MTuWThF 9:30am-10:50am		
0102	Meets JUN 5 to JUL 26	Bldg. CHE, Room 2136	Staff
	MTuWThF 9:30am-10:50am		
0201	Meets JUN 5 to JUL 26	Bldg. CHE, Room 2136	Staff
	MTuWThF 11:00am-12:20pm		

Basic languages of the engineer. Elements of graphic communication and analysis. Orthographic projection, conventions, graphs and curve-fitting. Introduction to Fortran computer language. Engineering orientation, selection of a major and career goals.

**ENES 101A Introductory Engineering Science 3 credits; Grading Method: REG/P/AUD**  
 Permission of department required. Permission of dean required. High school students only.

0201	Meets JUN 5 to JUL 26	Bldg. EGR, Room 0135	Staff
	MWF 9:00am-11:25am		

**ENES 101S Introductory Engineering Science 3 credits; Grading Method: REG**  
 Permission of department required. Permission of ENME required. High school students only.

0201	Meets JUN 5 to JUL 26	Bldg. CHE, Room 2120	Staff
	MWF 8:30am-10:50am		

**ENES 110 Statics 3 credits; Grading Method: REG/P/AUD**

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 2154	Staff
	MTuWThF 9:30am-10:50am		
0102	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1106	Staff
	MTuWThF 11:00am-12:20pm		

Corequisite: MATH 141. The equilibrium of stationary bodies under the influence of various kinds of forces: Forces, moments, couples, equilibrium, trusses, frames and machines, centroids, moment of inertia, beams, and friction. Vector and scalar methods are used to solve problems.

**ENES 121A The Man-Made World 3 credits; Grading Method: REG/P/AUD**  
 Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement. Permission of department required. Permission of dean required. High school students only.

0201	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1120	Staff
	TuTh 8:00am-12:00pm		

**ENES 220 Mechanics of Materials 3 credits; Grading Method: REG/P/AUD**

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 0135	Staff
	MTuWThF 8:00am-9:20am		
0102	Meets JUN 5 to JUL 26	Bldg. EGR, Room 0135	Staff
	MTuWThF 11:00am-12:20pm		

Prerequisites: MATH 141, and PHYS 161; and ENES 110. Distortion of engineering materials in relation to changes in stress or temperature. Geometry of internal strain and external displacement. Application to beams, columns, shafts, tanks, and other structural, machine and vehicle members.

**ENES 221 Dynamics 3 credits; Grading Method: REG/P/AUD**

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 0135	Staff
	MTuWThF 8:00am-9:20am		
0102	Meets JUN 5 to JUL 26	Bldg. EGR, Room 0110	Staff
	MTuWThF 11:00am-12:20pm		

Prerequisites: ENES 110, and MATH 141, and PHYS 161. Systems of heavy particles and rigid bodies at rest and in motion. Force-acceleration, work-energy and impulse-momentum relationships. Motion of one body relative to another in a plane and in space.

**ENES 240 Engineering Computation 3 credits; Grading Method: REG/P/AUD**  
 Permission of department required. Open only to students in the College of Engineering (04).

0101	Meets JUN 5 to JUL 26	Bldg. EGR, Room 1108	Staff
	MTuWTh 9:30am-10:50am		

Prerequisite: MATH 141. Introduction to the design and implementation of algorithms to solve engineering problems using digital computers. Analysis of problems fundamental to engineering design, construction and diagrammatic description of effective procedures for solving them and implementing and testing of these solutions in a common high-level engineering oriented language such as FORTRAN. Techniques for data input and storage, selection of relevant numerical and non-numerical methods for problem solutions, and the efficient ordering of data for meaningful output presentation.

# ENGL (ARTS AND HUMANITIES)

## ENGLISH

- ENGL 101 Introduction to Writing 3 credits; Grading Method: REG**
- |      |                         |                      |       |
|------|-------------------------|----------------------|-------|
| 0101 | MW 7:00pm-10:00pm       | Bldg. TYD, Room 1132 | Staff |
| 0102 | TuTh 9:30am-10:50am     | Bldg. KEY, Room 0117 | Staff |
| 0103 | MtUWThF 11:00am-12:20pm | Bldg. TLf, Room 0110 | Staff |
| 0104 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0119 | Staff |
| 0202 | MtUWThF 9:30am-10:50am  | Bldg. KEY, Room 0119 | Staff |
| 0203 | MtUWThF 11:00am-12:20pm | Bldg. TYD, Room 2110 | Staff |
| 0204 | MtUWThF 9:30am-10:50am  | Bldg. LEF, Room 1220 | Staff |
- An introductory course in expository writing.
- ENGL 101X Introduction to Writing 3 credits; Grading Method: REG**  
Permission of department required. Limited to students for whom English is a second language. To be eligible for ENGL 101X, a student must demonstrate proficiency in English. Proof of one of the following should be brought to TU 0138 (X 4160) or PKT 1104 (X 8545): 1. A TOEFL score of 560 with no scores below 50. 2. A CETL score of 220 with no subject score 50 and a rating of 5 or better on the writing sample. 3. Successful completion of LIMEI 005 or Advanced English as a Foreign Language. Semi-intensive.
- |      |                       |                      |       |
|------|-----------------------|----------------------|-------|
| 0101 | Meets JUN 5 to AUG 12 |                      |       |
|      | MWF 11:00am-12:30pm   | Bldg. TLf, Room 2137 | Staff |
- ENGL 205 Introduction to Shakespeare 3 credits; Grading Method: REG/P-FAUD**  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- |      |                        |                      |               |
|------|------------------------|----------------------|---------------|
| 0101 | MtUWThF 9:30am-10:50am | Bldg. TLf, Room 2126 | Cooper Jr., S |
| 0201 | TuTh 6:00pm-9:00pm     | Bldg. TYD, Room 1132 | Lainwand, T   |
- Reading of selected representative plays including the major tragedies. Recommended for non-majors.
- ENGL 222 American Literature: 1865 to Present 3 credits; Grading Method: REG/P-FAUD**  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- |      |                         |                      |               |
|------|-------------------------|----------------------|---------------|
| 0101 | MtUWThF 11:00am-12:20pm | Bldg. TLf, Room 2126 | Joyce, J      |
| 0201 | MtUWThF 11:00am-12:20pm | Bldg. TLf, Room 2110 | Van Egmond, P |
- ENGL 246 The Short Story 3 credits; Grading Method: REG/P-FAUD**  
Meets USP Distributive Studies (C) Literature and the Arts requirement.
- |      |                         |                      |              |
|------|-------------------------|----------------------|--------------|
| 0101 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0125 | Cross, R     |
| 0201 | MtUWThF 11:00am-12:20pm | Bldg. TLf, Room 0110 | Salamanca, J |
- ENGL 260 Introduction to Folklore 3 credits; Grading Method: REG/P-FAUD**  
Meets USP Distributive Studies (A) Cultural and Historical requirement.
- |      |                        |                      |            |
|------|------------------------|----------------------|------------|
| 0101 | MtUWThF 9:30am-10:50am | Bldg. KEY, Room 0125 | Paarson, B |
| 0201 | MtUWThF 9:00am-9:20am  | Bldg. TLf, Room 2126 | Fry, G     |
- History, theory, and genres of folklore. Not open to students who have credit in ENGL 360.
- ENGL 296 Beginning Fiction Workshop 3 credits; Grading Method: REG/P-FAUD**  
0101 TuTh 5:00pm-9:00pm Bldg. TLf, Room 0110 Leonard, S
- Introduction to different aspects of the craft of fiction, such as narration, description, and dramatic development. Models taken from the entire range of the genre. Selected readings.
- ENGL 310 Medieval and Renaissance British Literature 3 credits; Grading Method: REG**
- |      |                         |                      |             |
|------|-------------------------|----------------------|-------------|
| 0201 | MtUWThF 11:00am-12:20pm | Bldg. TYD, Room 0111 | Colafri, T  |
| 0202 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0125 | Bridgell, E |
- For English and English education majors only. Not open to students who have completed ENGL 211 or ENGL 212. A perspective on the cultural attitudes and values that separate the Middle Ages from the Renaissance, highlighting the changing role and purpose of the writer. Major works and authors include Beowulf, Chaucer, Spenser, and Milton.
- ENGL 311 Baroque and Augustan British Literature 3 credits; Grading Method: REG**
- |      |                       |                      |             |
|------|-----------------------|----------------------|-------------|
| 0101 | MtUWThF 9:00am-9:20am | Bldg. TLf, Room 0110 | Hamilton, G |
|------|-----------------------|----------------------|-------------|
- For English and English education majors only. An intensive study of major works of seventeenth and eighteenth century English literature exploring the variety of artistic ideas and techniques of the period.
- ENGL 312 Romantic to Modern British Literature 3 credits; Grading Method: REG**
- |      |                         |                      |           |
|------|-------------------------|----------------------|-----------|
| 0101 | MW 7:00pm-10:00pm       | Bldg. TLf, Room 0110 | Cale, G   |
| 0201 | MtUWThF 11:00am-12:20pm | Bldg. LEF, Room 1220 | Kleine, D |
- For English and English education majors only. An intensive study of major works of nineteenth and twentieth century English literature.
- ENGL 313 American Literature 3 credits; Grading Method: REG**
- |      |                         |                      |           |
|------|-------------------------|----------------------|-----------|
| 0101 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0120 | Lawson, L |
| 0201 | MtUWThF 9:30am-10:50am  | Bldg. LEF, Room 1222 | Lavine, R |
- For English and English education majors only. Not open to students who have completed ENGL 221 or ENGL 222. A detailed study of selected major texts of American literature from the 17th to the 20th century, including women's literature, black literature, and literature from various regions of the country.
- ENGL 378 Independent Research in English 1-6 credits; Grading Method: REG/P-FAUD**  
Permission of department required.
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ENGL 379E Special Topics in Literature: Film Analysis - The Rhetoric of Fictional Worlds**  
Meets USP Advanced Studies Development of Knowledge requirement.
- |      |                     |                      |           |
|------|---------------------|----------------------|-----------|
| 0101 | TuTh 6:30pm-10:00pm | Bldg. KEY, Room 0106 | Miller, J |
| 0201 | TuTh 8:30pm-10:00pm | Bldg. KEY, Room 0106 | Miller, J |
- ENGL 379J Special Topics in Literature: Interpreting the Bible 3 credits; Grading Method: REG**  
Meets USP Advanced Studies Development of Knowledge requirement.
- |      |                  |                      |              |
|------|------------------|----------------------|--------------|
| 0101 | MW 6:00pm-9:00pm | Bldg. KEY, Room 0125 | Handelman, S |
|------|------------------|----------------------|--------------|
- ENGL 379Q Special Topics in Literature: More's Utopia and Modern Utopian Visions**  
3 credits; Grading Method: REG  
Meets USP Advanced Studies Analysis of Human Problems requirement.
- |      |                  |                      |           |
|------|------------------|----------------------|-----------|
| 0201 | MW 6:00pm-9:00pm | Bldg. TLf, Room 2110 | Coogan, R |
|------|------------------|----------------------|-----------|
- ENGL 380 Internship 3-6 credits; Grading Method: REG/P-FAUD**  
Permission of department required.
- |      |               |               |            |
|------|---------------|---------------|------------|
| 0201 | Time Arranged | Room Arranged | Terchek, M |
|------|---------------|---------------|------------|
- Pre- or co-requisite: ENGL 351 or 382, and consent of department. The English Department's internship program. Professional experience in writing and editing of a variety of fields.
- ENGL 391 Advanced Composition 3 credits; Grading Method: REG**
- |      |                         |                      |       |
|------|-------------------------|----------------------|-------|
| 0101 | MW 7:00pm-10:00pm       | Bldg. KEY, Room 0124 | Staff |
| 0102 | TuTh 9:00am-9:20am      | Bldg. TLf, Room 2126 | Staff |
| 0103 | MtUWThF 9:30am-10:50am  | Bldg. TLf, Room 2137 | Staff |
| 0104 | MtUWThF 9:30am-10:50am  | Bldg. TLf, Room 0135 | Staff |
| 0105 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0123 | Staff |
| 0106 | MtUWThF 11:00am-12:20pm | Bldg. ASV, Room 3215 | Staff |
| 0107 | MtUWThF 9:30am-10:50am  | Bldg. KEY, Room 0128 | Staff |
| 0108 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0128 | Staff |
| 0201 | MtUWThF 8:00am-9:20am   | Bldg. KEY, Room 0120 | Staff |
| 0202 | MtUWThF 9:30am-10:50am  | Bldg. ASV, Room 3219 | Staff |
| 0203 | MtUWThF 9:30am-10:50am  | Bldg. KEY, Room 0117 | Staff |
| 0204 | MtUWThF 11:00am-12:20pm | Bldg. TLf, Room 2126 | Staff |
| 0205 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0117 | Staff |
- Pre-requisite: successful college grade. An advanced college course with emphasis on clarity and logic of construction in the writing and revision of short papers on topics related to the student's major, written in a style for the non-specialized reader. A research exercise coordinated with the student's discipline is required.

## ENGL cont.

- ENGL 393 Technical Writing 3 credits; Grading Method: REG**
- |      |                         |                      |       |
|------|-------------------------|----------------------|-------|
| 0101 | TuTh 7:00pm-10:00pm     | Bldg. TLf, Room 2126 | Staff |
| 0102 | MtUWThF 8:00am-9:20am   | Bldg. KEY, Room 0124 | Staff |
| 0103 | MtUWThF 9:30am-10:50am  | Bldg. KEY, Room 0120 | Staff |
| 0104 | MtUWThF 9:30am-10:50am  | Bldg. TLf, Room 0121 | Staff |
| 0105 | MtUWThF 9:30am-10:50am  | Bldg. KEY, Room 0124 | Staff |
| 0106 | MtUWThF 11:00am-12:20pm | Bldg. TLf, Room 0135 | Staff |
| 0107 | MtUWThF 11:00am-12:20pm | Bldg. TLf, Room 2110 | Staff |
| 0108 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0124 | Staff |
| 0109 | MtUWThF 9:30am-10:50am  | Bldg. KEY, Room 0123 | Staff |
| 0201 | MtUWThF 8:00am-9:20am   | Bldg. KEY, Room 0119 | Staff |
| 0202 | MtUWThF 9:30am-10:50am  | Bldg. TLf, Room 2126 | Staff |
| 0204 | MtUWThF 9:30am-10:50am  | Bldg. ARC, Room 1127 | Staff |
| 0205 | MtUWThF 9:30am-10:50am  | Bldg. TLf, Room 0110 | Staff |
| 0206 | MtUWThF 11:00am-12:20pm | Bldg. LEF, Room 1208 | Staff |
| 0207 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0119 | Staff |
| 0208 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0119 | Staff |
- Prerequisite: satisfactory completion of 56 credits, which must include ENGL 101 or equivalent. The writing of scientific papers and reports. This course or ENGL 391 is required of students who entered the University in Summer 1978 or thereafter, unless exempt by University regulations. Not open to students who have credit for ENGL 293.
- ENGL 393X Technical Writing 3 credits; Grading Method: REG**  
For students for whom English is a second language.
- |      |                       |                      |       |
|------|-----------------------|----------------------|-------|
| 0101 | Meets JUN 5 to AUG 12 |                      |       |
|      | MW 11:00am-12:30pm    | Bldg. LEF, Room 2123 | Staff |
| 0102 | Meets JUN 5 to AUG 12 |                      |       |
|      | MWF 11:00am-12:30pm   | Bldg. TLf, Room 2108 | Staff |
- ENGL 394 Business Writing 3 credits; Grading Method: REG**  
This course satisfies the Junior English requirement. Prerequisite: ENGL 101 or equivalent and 56 credits (Junior standing).
- |      |                        |                      |       |
|------|------------------------|----------------------|-------|
| 0101 | MtUWThF 9:30am-10:50am | Bldg. KEY, Room 0119 | Staff |
| 0201 | MW 7:00pm-10:00pm      | Bldg. KEY, Room 0120 | Staff |
- Intensive practice in the forms of written communication common in the business world—letters, memos, short reports, and proposals. Principles of rhetoric and effective style.
- ENGL 412 Literature of the Seventeenth Century, 1600-1660 3 credits; Grading Method: REG**  
Meets USP Advanced Studies Development of Knowledge requirement.
- |      |                        |                      |           |
|------|------------------------|----------------------|-----------|
| 0101 | MtUWThF 9:30am-10:50am | Bldg. KEY, Room 0116 | Wilson, G |
|------|------------------------|----------------------|-----------|
- ENGL 432 American Literature, 1865 to 1914, Realism and Naturalism**  
3 credits; Grading Method: REG  
Meets USP Advanced Studies Development of Knowledge requirement.
- |      |                         |                      |             |
|------|-------------------------|----------------------|-------------|
| 0101 | MtUWThF 11:00am-12:20pm | Bldg. LEF, Room 1220 | Smith, M    |
| 0201 | MtUWThF 9:30am-10:50am  | Bldg. TLf, Room 2110 | Auerbach, J |
- Prerequisite: two college-level literature courses.
- ENGL 454 Modern Drama 3 credits; Grading Method: REG/P-FAUD**
- |      |                        |                      |             |
|------|------------------------|----------------------|-------------|
| 0101 | MtUWThF 9:30am-10:50am | Bldg. TLf, Room 2110 | Freedman, M |
|------|------------------------|----------------------|-------------|
- ENGL 466 Arthurian Legend 3 credits; Grading Method: REG/P-FAUD**
- |      |                        |                      |           |
|------|------------------------|----------------------|-----------|
| 0101 | MtUWThF 9:30am-10:50am | Bldg. TLf, Room 0110 | Harman, H |
|------|------------------------|----------------------|-----------|
- Development of the Arthurian legend of heroism and love in English literature from medieval to modern times.
- ENGL 489A Special Topics in English Language: The Language of Advertising**  
3 credits; Grading Method: REG  
Meets USP Advanced Studies Development of Knowledge requirement.
- |      |                         |                      |           |
|------|-------------------------|----------------------|-----------|
| 0101 | MtUWThF 11:00am-12:20pm | Bldg. KEY, Room 0116 | Colman, L |
| 0201 | MtUWThF 9:30am-10:50am  | Bldg. LEF, Room 1208 | James, E  |
- ENGL 511 Approaches to College Composition 3 credits; Grading Method: REG/AUD**
- |      |                  |                      |            |
|------|------------------|----------------------|------------|
| 0201 | MW 6:00pm-9:00pm | Bldg. TLf, Room 0110 | Shapiro, N |
|------|------------------|----------------------|------------|
- A seminar emphasizing rhetorical and linguistic foundations for the handling of a course in freshman composition. For graduate assistants (optional to other graduate students).
- ENGL 626 Readings in American Literature Before 1865 3 credits; Grading Method: REG/AUD**
- |      |                  |                      |            |
|------|------------------|----------------------|------------|
| 0101 | MW 6:00pm-9:00pm | Bldg. TLf, Room 2110 | Bennett, M |
|------|------------------|----------------------|------------|
- ENGL 630 Readings in 20th Century English Literature 3 credits; Grading Method: REG/AUD**
- |      |                    |                      |            |
|------|--------------------|----------------------|------------|
| 0101 | TuTh 6:00pm-9:00pm | Bldg. TLf, Room 2108 | Russell, J |
|------|--------------------|----------------------|------------|
- ENGL 688 Poetry Workshop: Poetry Workshop. 3 credits; Grading Method: REG/AUD**  
Permission of department required.
- |      |                  |                      |           |
|------|------------------|----------------------|-----------|
| 0101 | MW 6:00pm-9:00pm | Bldg. TLf, Room 2108 | Plumly, S |
|------|------------------|----------------------|-----------|
- ENGL 699 Independent Study 1-3 credits; Grading Method: REG/AUD**  
Permission of department required.
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ENGL 746 Seminar in American Literature: Seminar in American Literature**  
3 credits; Grading Method: REG/AUD  
Permission of department required.
- |      |                    |                      |             |
|------|--------------------|----------------------|-------------|
| 0101 | TuTh 6:00pm-9:00pm | Bldg. KEY, Room 0119 | Robinson, J |
|------|--------------------|----------------------|-------------|
- ENGL 799 Master's Thesis Research 1-6 credits; Grading Method: REG**
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ENGL 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |

## ENMA

### ENGINEERING, MATERIALS (ENGINEERING)

- ENMA 698 Special Problems in Engineering Materials 1-6 credits; Grading Method: REG/AUD**
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ENMA 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
Permission of department required.
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |
- ENMA 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
Permission of department required.
- |      |               |               |       |
|------|---------------|---------------|-------|
| 0101 | Time Arranged | Room Arranged | Staff |
| 0201 | Time Arranged | Room Arranged | Staff |

## ENME

### ENGINEERING, MECHANICAL (ENGINEERING)

- ENME 205 Engineering Analysis and Computer Programming**  
3 credits; Grading Method: REG/P-FAUD
- |      |                         |                      |       |
|------|-------------------------|----------------------|-------|
| 0101 | MtUWThF 11:00am-12:20pm | Bldg. EGR, Room 1126 | Staff |
|------|-------------------------|----------------------|-------|
- Pre- or co-requisite: MATH 241. Continuation of computer programming techniques: flowcharts, algorithms, and computer languages. Introduction to numerical techniques and error analysis in solving for roots of equations, simultaneous equations, interpolation, numerical differentiation and



**ENME cont.**

integration, numerical solution of differential equations. Applications to engineering problems

**ENME 217 Thermodynamics 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 8:00am-9:20am Bldg. EGR, Room 1106 Staff  
 0201 MTUWThF 11:00am-12:20pm Bldg. EGR, Room 1108 Staff  
 Prerequisites: PHYS 202; and MATH 141. Properties, characteristics and fundamental equations of gases and vapors. Work transfer and heat transfer, first and second laws of thermodynamics, entropy, irreversibility, availability, and the thermodynamics of mixtures.

**ENME 310 Mechanics of Deformable Solids 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 8:00am-9:20am Bldg. EGR, Room 1108 Staff  
 Prerequisite: ENES 220. Introduction to the mechanics of engineering materials in three dimensions. Concepts of stress, strain, generalized Hooke's law, and equilibrium of solids. Modes of failure including plasticity, stability, fatigue, and fracture will be treated.

**ENME 311 Mechanics of Deformable Solids Laboratory 1 credit; Grading Method: REG-P/FAUD**  
 0101 MTU 12:30pm-3:30pm Bldg. EGR, Room 1106 (LAB) Staff  
 Corequisite: ENME 310. A laboratory course in the mechanics of engineering materials. Concepts of stress, strain, generalized Hooke's law, and equilibrium of solids. Modes of failure including plasticity, stability, fatigue, and fracture will be treated.

**ENME 315 Intermediate Thermodynamics 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 9:30am-10:50am Bldg. EGR, Room 1104 Staff  
 Prerequisite: ENME 217. Application of the first and second laws of thermodynamics in the analysis of basic heat engines, air compression and vapor cycles. Heat sources in fossil fuels and nuclear fuels. The thermodynamics of fluid flow.

**ENME 321 Transfer Processes 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 11:00am-12:20pm Bldg. EGR, Room 1104 Staff  
 Prerequisite: ENME 342. Conduction by steady state and transient heat flow, laminar and turbulent flow, free and forced convection, radiation, evaporation and condensation vapors. Transfer of mass, heat and momentum

**ENME 342 Fluid Mechanics 1 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 11:00am-12:20pm Bldg. EGR, Room 2154 Staff  
 Prerequisite: ENME 217. Fluid flow concepts and basic equations, effects of viscosity and compressibility. Dimensional analysis and laws of similarity. Flow through pipes and over immersed bodies. Principles of fluid measurement

**ENME 343 Fluid Mechanics Laboratory 1 credit; Grading Method: REG-P/FAUD**  
 0101 WTh 12:30pm-3:30pm Bldg. EGR, Room 3106 (LAB) Staff  
 Laboratory to be taken concurrently with ENME 342. Measurement of fluid properties, determination of pressure drops in pipes and fittings, observation of fluid phenomena. Experiment and demonstration of flow measurement techniques.

**ENME 360 Dynamics of Machinery 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 8:00am-9:20am Bldg. EGR, Room 3106 Staff  
 Prerequisites: ENES 220; and ENES 221; and MATH 246. Dynamic characteristics of machinery with emphasis on systems with single and multiple degrees of freedom

**ENME 381 Measurements Laboratory 3 credits; Grading Method: REG-P/FAUD**  
 0101 TuWTh 12:30pm-1:50pm Bldg. EGR, Room 1120 Staff  
 TuWTh 2:30pm-3:50pm Bldg. EGR, Room 1120 (LAB) Staff  
 Prerequisites: ENME 360; and ENEE 300. Required of juniors in mechanical engineering. Measurements and measurement systems, application of selected instruments with emphasis on interpretation of results.

**ENME 400 Machine Design 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 11:00am-12:20pm Bldg. CHE, Room 2140 Staff  
 Prerequisites: ENME 310; and ENME 360. Corequisite: ENME 401. Working stresses, stress concentration, stress analysis and repeated loadings. Design of machine elements. Kinematics of mechanisms.

**ENME 401 The Structure and Properties of Engineering Materials 3 credits; Grading Method: REG**  
 0101 MTUWThF 9:30am-10:50am Bldg. EGR, Room 0108 Staff  
 Corequisite: ENME 310. The nature and properties of engineering materials as related to their use in all phases of mechanical engineering will be studied. Materials covered include metals, ceramics and glasses, polymer and composites.

**ENME 403 Automatic Controls 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 8:00am-9:20am Bldg. CHM, Room 2201 Staff  
 Prerequisites: ENEE 300; and ENME 360. Senior standing. Hydraulic, electrical, mechanical and pneumatic automatic control systems. Open and closed loop systems. Steady state and transient operation, stability criteria, linear and non-linear systems. Laplace transforms.

**ENME 405 Energy Conversion Design 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 9:30am-10:50am Bldg. EGR, Room 1120 Staff  
 Prerequisite: senior standing in mechanical engineering. Application of thermodynamics, fluid mechanics and heat transfer to energy conversion processes. Design of engines, compressors, heat exchangers. Energy storage and fuel handling equipment

**ENME 414 Computer-Aided Design 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 2:30pm-5:50pm Bldg. EGL, Room 1101 Staff  
 Permission of department required.  
 Prerequisites: ENME 205; and MATH 241 or equivalent. Introduction to computer graphics. Plotting and drawing with computer software. Principles of writing interactive software. The applications of computer graphics in computer-aided design. Computer-aided design project

**ENME 488 Special Problems 3 credits; Grading Method: REG-P/FAUD**  
 Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ENME 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENME 806 Advanced Topics In Mechanical Engineering 3 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENME 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENNU (ENGINEERING)**

**ENNU 215 Introduction to Nuclear Technology 3 credits; Grading Method: REG-P/FAUD**  
 0101 MTUWThF 9:30am-10:50am Bldg. CHE, Room 2140 Staff  
 Prerequisites: MATH 141; and PHYS 161. Engineering problems of the nuclear energy complex, including basic theory, use of computers, nuclear reactor design and isotopic and chemical separations.

**ENNU 468 Research 2-3 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENNU 648 Special Problems in Nuclear Engineering 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENNU 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENNU cont.**

**ENNU 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENTM (LIFE SCIENCES)**

**ENTOMOLOGY**

**ENTM 100 Insects 3 credits; Grading Method: REG-P/FAUD**  
 Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.  
 0101 MTUWThF 9:30am-10:50am Bldg. SYM, Room 1308 Messersmith, D  
 0201 MTUWThF 9:30am-10:50am Bldg. SYM, Room 1308 Messersmith, D  
 A survey of the major groups of insects, their natural history, and their relationships with man and his environment

**ENTM 399 Special Problems 1-2 credits; Grading Method: REG-P/FAUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENTM 699 Advanced Entomology 1-6 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENTM 789 Field Experience In Pest Management 1-6 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENTM 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**ENTM 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**FDSC (AGRICULTURE)**

**FDSC 399 Special Problems in Food Science 1-3 credits; Grading Method: REG-P/FAUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**FDSC 699 Special Problems In Food Science 1-4 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**FDSC 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**FDSC 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**FMCD (HUMAN ECOLOGY)**

**FAMILY AND COMMUNITY DEVELOPMENT**

**FMCD 260 Interpersonal Life Styles 3 credits; Grading Method: REG-P/FAUD**  
 0101 TuTh 9:30am-12:50pm Bldg. MMH, Room 1304 Rubin, R  
 Prerequisite: FMCD 105 or equivalent. Couple relationships in contemporary dating, courtship and marriage, and their alternatives.

**FMCD 330 Family Patterns 3 credits; Grading Method: REG/AUD**  
 Meets USP Distributive Studies (A) Cultural and Historical requirement. Must have junior standing.  
 0101 TuTh 6:00pm-9:20pm Bldg. LEF, Room 2166 Leslie, L  
 0102 MW 9:30am-12:50pm Bldg. HBK, Room 1116 Milsten, F  
 0201 TuTh 9:30am-12:50pm Bldg. MMH, Room 1304 Zeiger, R  
 Theory and research on the family, including a cross-cultural analysis of family patterns.

**FMCD 332 The Child in the Family 3 credits; Grading Method: REG-P/FAUD**  
 0101 TuTh 1:00pm-4:20pm Bldg. MMH, Room 0108 Kobinsky, S  
 Prerequisite: FMCD 105 or PSYC 100. A family education approach to the study of children and families. Emphasis on the interaction of children with parents, siblings, extended kin and the community.

**FMCD 348 Practicum In Family and Community Development**  
 Permission of department required.  
 0101 Meets JUN 5 to AUG 25 Room Arranged Milsten, F  
 Time Arranged

**FMCD 349 Analysis of Practicum 1 credit; Grading Method: REG-P/FAUD**  
 Permission of department required.  
 0101 Meets JUN 5 to AUG 25 Bldg. MMH, Room 1206 Milsten, F  
 Tu 10:00am-12:00pm

**FMCD 381 Poverty and Affluence Among Families and Communities 3 credits; Grading Method: REG/AUD**  
 Meets USP Advanced Studies Analysis of Human Problems requirement.  
 0101 TuTh 9:00am-12:20pm Bldg. SYM, Room 2109 Kobinsky, S  
 Prerequisite: FMCD 201 or SOCY 100 or SOCY 105 Social, political, economic interrelationships among families and communities with respect to varying resources.

**FMCD 386 Field Work 1-3 credits; Grading Method: REG-P/FAUD**  
 0201 Time Arranged Room Arranged Rubin, R

**FMCD 387 Field Work Analyses 1-3 credits; Grading Method: REG-P/FAUD**  
 0201 Time Arranged Room Arranged Rubin, R

**FMCD 399 Independent Study 1-6 credits; Grading Method: REG-P/FAUD**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Rubin, R  
 0201 Time Arranged Room Arranged Rubin, R  
 Individualized family and community studies projects of interest to student and faculty

**FMCD 431 Family Crises and Intervention 3 credits; Grading Method: REG-P/FAUD**  
 Meets USP Advanced Studies Analysis of Human Problems requirement  
 0101 TuTh 2:00pm-5:20pm Bldg. MMH, Room 1304 Epstein, N  
 0201 TuTh 2:30pm-5:50pm Bldg. MMH, Room 1304 Zeiger, R  
 Prerequisite: PSYC 100. Family crises such as divorce, disability, substance abuse, financial problems, intrafamilial abuse, and death. Theories and techniques for intervention and enhancement of family coping strategies.

**FMCD cont.**

<b>FMCD 441</b>	<b>Personal and Family Finance 3 credits; Grading Method: REG-P/FAUD</b>		
0101	MWF 9:00am-11:20am	Bldg. MMH, Room 1304	Churman, C
Prerequisite: ECON 201 or 205, or consent of instructor. Study of individual and family financial strategies with particular emphasis upon financial planning, savings, insurance, investments, income taxes, housing, and use of credit.			
<b>FMCD 487</b>	<b>Legal Aspects of Family Problems 3 credits; Grading Method: REG-P/FAUD</b>		
0101	MW 9:30am-12:50pm	Bldg. MMH, Room 3418	Myrincs, N
Prerequisite: FMCD 105 or SOCY 105. Laws and legal procedures, with emphasis on adoption, marriage, divorce, annulment, and property rights, and how they affect family life.			
<b>FMCD 497</b>	<b>The Child and the Law 3 credits; Grading Method: REG-P/FAUD</b>		
0101	MW 1:00pm-4:20pm	Bldg. MMH, Room 1304	Myrincs, N
Legislation and case law regarding children's legal rights with emphasis on the rights of children in the juvenile justice system, and rights to medical, educational, and other social services.			
<b>FMCD 689</b>	<b>Internship in Family and Community Development 3-6 credits; Grading Method: REG/AUD</b>		
Permission of department required.			
0101	Time Arranged	Room Arranged	Rubin, R
0201	Time Arranged	Room Arranged	Rubin, R
Internship related to student's chosen specialization.			
<b>FMCD 698</b>	<b>Advanced Topics in Family and Community Development 1-3 credits; Grading Method: REG/AUD</b>		
Permission of department required.			
0101	Time Arranged	Room Arranged	Rubin, R
0201	Time Arranged	Room Arranged	Rubin, R
<b>FMCD 698C</b>	<b>Advanced Topics in Family and Community Development: Gender and Ethnicity Issues in Family Therapy 3 credits; Grading Method: REG/AUD</b>		
Prerequisite: CD 485.			
0101	TuTh 2:00pm-5:20pm	Bldg. MMH, Room 1206	Leslie, L
<b>FMCD 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Rubin, R
0201	Time Arranged	Room Arranged	Rubin, R

**FOOD (HUMAN ECOLOGY)**

<b>FOOD 110</b>	<b>Food for People 3 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	MtUWThF 11:00am-12:20pm	Bldg. MMH, Room 0108	Staff
A study of food in contemporary living. Economic, social, cultural and aesthetic implications of food. Selection and use of food in relation to eating habits and well-being of the individual.			
<b>FOOD 789</b>	<b>Non-Thesis Research 1-3 credits; Grading Method: S-F</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FOOD 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FOOD 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**FREN (ARTS AND HUMANITIES)**

<b>FREN 101</b>	<b>Elementary French 4 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement. Limited to students with less than 2 years high school French.			
0101	MtUWThF 8:00am-10:00am	Bldg. JMZ, Room 1224	Black, C
0102	MtUWThF 7:00pm-9:00pm	Bldg. JMZ, Room 3118	Staff
0201	MWF 9:30am-12:50pm	Bldg. JMZ, Room 3118	Demette, A
Introduction to basic structures and pronunciation with emphasis on the four skills: listening, speaking, reading and writing. Not open to students with two or more years of high-school level French.			
<b>FREN 102</b>	<b>Elementary French 4 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement. Open only to students who have completed FREN 101 on this campus or by permission of course chairperson.			
0101	MtUWThF 10:00am-12:00pm	Bldg. JMZ, Room 1224	Missman, C
0201	MtUWThF 8:00am-10:00am	Bldg. JMZ, Room 3120	Staff
Prerequisite: FREN 101 at UMCP or permission of department. Further work on basic structures and pronunciation with emphasis on the four skills: listening, speaking, reading and writing.			
<b>FREN 103</b>	<b>Review of Elementary French 4 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MWThF 11:00am-1:00pm	Bldg. JMZ, Room 3120	Staff
0201	MtUWThF 10:00am-12:00pm	Bldg. JMZ, Room 3120	Staff
Limited to students who have had at least two years of high school French (or equivalent) or who do not qualify for FREN 104. Students may not receive credit for both FREN 101/102 and 103.			
<b>FREN 203</b>	<b>Intermediate French 4 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement. Limited to students who have had no more than 3 years of high school French.			
0101	MtUWThF 8:00am-10:00am	Bldg. JMZ, Room 2125	Barreth, M
0102	MtUWThF 8:00am-10:00am	Bldg. JMZ, Room 1103	Staff
0201	MtUWThF 8:00am-10:00am	Bldg. JMZ, Room 2205	Staff
0202	MtUWThF 8:00am-10:00am	Bldg. JMZ, Room 2125	Staff
Grammar review with extended reading, discussion, and composition. Fulfills the arts and humanities language requirement.			
<b>FREN 386</b>	<b>Field Work 1-3 credits; Grading Method: REG-P/FAUD</b>		
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FREN 387</b>	<b>Field Work Analysis 1-3 credits; Grading Method: REG-P/FAUD</b>		
Permission of department required. Taken concurrently with FREN 386.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FREN 399</b>	<b>Directed Study in French 1-3 credits; Grading Method: S-F</b>		
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**FREN cont.**

<b>FREN 473</b>	<b>Contemporary French Society 3 credits; Grading Method: REG-P/FAUD</b>		
0101	Meets JUN 26 to JUL 14		
MtUWThF 9:00am-12:00pm	Bldg. JMZ, Room 3118	Verduguer, P	
This course is designed to trace the evolution of French society since World War II. Historical, social, economic and cultural factors which have shaped the country and its people over the past forty years will be examined. A variety of documents and sources will be used as a basis for classroom discussion, but special emphasis will be placed on the analysis of numerous audio-visual supports which provide unique insights into the culture, such as slides and documentaries, feature films, cartoons, T.V. programs and commercials, popular songs, etc. The forces shaping contemporary France. Analysis of social groups, economic development, institutions, political structures. Lectures, discussions and most readings in French.			
<b>FREN 798</b>	<b>Master's Independent Study 1-3 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FREN 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FREN 898</b>	<b>Doctoral Independent Study 3 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FREN 899</b>	<b>Doctoral Dissertation Research 1-3 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**FSAD (HUMAN ECOLOGY)**

<b>FSAD 789</b>	<b>Non-Thesis Research 1-3 credits; Grading Method: S-F</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FSAD 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>FSAD 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**GEOG (BEHAVIOR AND SOCIAL SCI)**

<b>GEOG 100</b>	<b>Introduction to Geography 3 credits; Grading Method: REG</b>		
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	MW 7:00pm-10:00pm	Bldg. LEF, Room 1201	Cimincione, J
An introduction to the broad field of geography as it is applicable to the general education student. The course presents the basic rationale of variations in human occupancy of the earth and stresses geographic concepts relevant to understanding world, regional and local issues.			
<b>GEOG 130</b>	<b>Developing Countries 3 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	MW 9:30am-12:30pm	Bldg. LEF, Room 1201	Panditharatne, B
An introduction to the geographic characteristics, development problems and prospects of less developed countries. The distribution of poverty, emerging livelihood patterns, migration and urban growth, agricultural productivity, rural development and international trade. Portraits of selected developing countries.			
<b>GEOG 150</b>	<b>World Cities 3 credits; Grading Method: REG</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	MW 9:30am-12:30pm	Bldg. LEF, Room 1221	Semarasinghe, V
An introduction to the forces that affect the growth of cities in different parts of the world. Regional variations in city design and examples of great world cities. The impact of changing technologies, economic and social change on the evolution of the city. Current and emerging trends.			
<b>GEOG 202</b>	<b>The World in Cultural Perspective 3 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	TuTh 9:30am-12:30pm	Bldg. LEF, Room 1201	Mitchell, R
The imprint of cultural traits, such as religion, language and livelihood systems, on the earth's landscape. The transformation of the earth's surface as a result of cultural diversity, settlement patterns, political organization, cultural evolution, and population growth.			
<b>GEOG 305</b>	<b>Quantitative Methods in Geography 3 credits; Grading Method: REG-P/FAUD</b>		
0101	TuTh 2:00pm-5:00pm	Bldg. LEF, Room 2166	Yu, F
A practical introduction to data sources and measurement, basic descriptive statistics, data collection, sampling and questionnaire design, field techniques, map use, introduction to computer use and presentation.			
<b>GEOG 324</b>	<b>Europe 3 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MW 4:00pm-7:00pm	Bldg. LEF, Room 1221	Cebrian, J
The geographical diversity of modern Europe from regional and regional perspectives. The diverse features of Europe's physical environment and resource base, and their integration into the demographic, economic, social and political patterns of the continent's major geographic regions.			
<b>GEOG 327</b>	<b>South Asia 3 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	TuTh 9:30am-12:30pm	Bldg. LEF, Room 1210	Silva, P
Methods of regional analysis and area studies applied to the Indian Subcontinent, including India, Pakistan, Bangladesh, Sri Lanka and adjacent nations. Locational significance of the natural environment, historical and cross-cultural processes, languages and religion, the economy and government, population, archaeology, urbanization and development.			
<b>GEOG 384</b>	<b>Internship in Geography 3 credits; Grading Method: REG-P/FAUD</b>		
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
Prerequisites: GEOG 305, 310, and permission of department. Coerequisite: GEOG 385. Supervised field training to provide career experience. Introduction to professional level activities, demands, opportunities. Placement at a public agency, non-profit organization, or private firm. Participation requires application to the internship advisor in preceding semester.			
<b>GEOG 385</b>	<b>Internship Research Paper 3 credits; Grading Method: REG-P/FAUD</b>		
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
Prerequisite: GEOG 305, 310, and permission of department. Coerequisite: GEOG 384. Seminar conducted on campus. Research paper related to the student's internship.			
<b>GEOG 434</b>	<b>Agriculture and Rural Development 3 credits; Grading Method: REG-P/FAUD</b>		
Meets USP Advanced Studies Analysis of Human Problems requirement.			
0201	TuTh 7:00pm-10:00pm	Bldg. LEF, Room 1222	Silva, P
The nature of agricultural resources, the major types of agricultural exploitation in the world and the geographic conditions. Main problems of conservation.			

## GEOG cont.

<b>GEOG 450 The Contemporary City 3 credits; Grading Method: REG-P/F/AUD</b>			
0101	TuTh 7:00pm-10:00pm	Bldg LEF, Room 1210	Panditharane, B
The contemporary urban system, towns, cities and metropolitan areas and their role as concentrations of social and economic activity. Patterns of land-use, residential, commercial activity, manufacturing, and transportation. Explanatory and descriptive models. International comparisons.			
<b>GEOG 454 Washington: Past and Present 3 credits; Grading Method: REG-P/F/AUD</b>			
0101	TuTh 4:00pm-7:00pm	Bldg LEF, Room 1208	Groves, P
The development of the Washington area from its origins as the Federal Capital to its role as a major metropolitan area. The geographic setting, the L'Enfant Plan and its modification, the federal government role, residential and commercial structure. The growth of Washington's suburbs.			
<b>GEOG 482 Geographic Information Systems 3 credits; Grading Method: REG-P/F/AUD</b>			
Starting Fall 1987, this course is a prerequisite for GEOG 696.			
0101	MW 4:00pm-7:30pm	Bldg LEF, Room 1124	Thompson, D
Prerequisite: GEOG 373 or consent of instructor. The construction and use of computer-based information systems. The collection, manipulation and automated display of geographical data. Applications in areas such as resource management, political boundaries, terrain analysis and community planning.			
<b>GEOG 498 Topical Investigations 1-3 credits; Grading Method: REG-P/F/AUD</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GEOG 679C Seminar in Urban Geography: The Contemporary City 3 credits; Grading Method: REG/AUD</b>			
0101	TuTh 7:00pm-10:00pm	Bldg LEF, Room 1210	Panditharane, B
<b>GEOG 788 Selected Topics in Geography 1-3 credits; Grading Method: REG/AUD</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GEOG 789 Independent Readings 1-3 credits; Grading Method: REG/AUD</b>			
Permission of department required. Contact department to make arrangements.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GEOG 790 Internship in Geography 3 credits; Grading Method: REG/AUD</b>			
Permission of department required. Contact department to make arrangements.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
Field experience in the student's specialty in a federal, state, or local agency or private business. A research paper required.			
<b>GEOG 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GEOG 899 Doctoral Dissertation Research 1-9 credits; Grading Method: REG</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

## GEOLOG (COMP. MATH. AND PHYS SCI)

<b>GEOLOG 100 Physical Geography 3 credits; Grading Method: REG-P/F/AUD</b>			
Course meets University Studies Program Distributive Studies non-lab science and mathematics requirements. If taken with GEOL 110, course may be counted as lab science requirement.			
0101	MtUWThF 9:30am-10:50am	Bldg GEO, Room 1120	Staff
A general survey of the rocks and minerals composing the earth, its surface features and the agents that form them, and the dynamic forces of plate tectonics. Credit will not be given for both GEOL 100 and GEOL 101.			
<b>GEOL 499 Special Problems in Geology 1-3 credits; Grading Method: REG-P/F/AUD</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
<b>GEOG 799 Master's Thesis Research 1-4 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GEOG 899 Doctoral Dissertation Research 1-9 credits; Grading Method: REG-S-F</b>			
0101	Time Arranged	Room Arranged	Staff

## GERM

### GERMAN (ARTS AND HUMANITIES)

<b>GERM 101 Elementary German I 4 credits; Grading Method: REG-P/F/AUD</b>			
Meets USF Distributive Studies (A) Cultural and Historical requirement.			
0101	MtUWTh 9:30am-12:00pm	Bldg JMZ, Room 3203	Strauch, G
0201	MtUWTh 9:30am-12:00pm	Bldg JMZ, Room 3203	Staff
Introduction to basic structures and pronunciation by emphasis on the four skills: listening, speaking, reading and writing. Readings concern the current life-style and civilization of the German-speaking world.			
<b>GERM 102 Elementary German II 4 credits; Grading Method: REG-P/F/AUD</b>			
Meets USF Distributive Studies (A) Cultural and Historical requirement.			
0201	MtUWTh 9:30am-12:00pm	Bldg JMZ, Room 3205	Staff
Prerequisite: GERM 101 or equivalent. A continuation of GERM 101, completing the introduction of basic structures and conquering the involvement with the civilization of the German-speaking world.			
<b>GERM 104 Intermediate German 4 credits; Grading Method: REG-P/F/AUD</b>			
Meets USF Distributive Studies (A) Cultural and Historical requirement.			
0101	MtUWTh 9:30am-12:00pm	Bldg JMZ, Room 2206	Plister, G
Prerequisite: GERM 102 or 103 or equivalent. Grammar review and greater mastery of vocabulary, idioms, conversational fluency and compositional skills. Readings stress the current life-style and civilization of the German-speaking world.			
<b>GERM 301 Conversation and Composition I 3 credits; Grading Method: REG-P/F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
Prerequisite: GERM 115 or equivalent. Practice in contemporary spoken and written German. Systematic review of grammar, and exercise in composition. Emphasis on cultural contexts.			
<b>GERM 302 Conversation and Composition II 3 credits; Grading Method: REG-P/F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
Prerequisite: GERM 301 or equivalent. Continuation of GERM 301.			
<b>GERM 415 German-English Translation I 3 credits; Grading Method: REG-P/F/AUD</b>			
0101	MtUTh 4:00pm-6:00pm	Bldg JMZ, Room 0204	Staff
An intensive presentation of German grammar limited exclusively to reading skill; graded readings in the arts and sciences. Instruction in English; can not be used to satisfy the arts and humanities foreign language requirement. May not be taken for credit by students who have completed GERM 111-115 and/or GERM 301/302.			

## GERM cont.

<b>GERM 416 German-English Translation II 3 credits; Grading Method: REG-P/F/AUD</b>			
0201	MtUTh 4:00pm-6:00pm	Bldg JMZ, Room 3205	Fagan, S
Prerequisites: GERM 302, GERM 415 or equivalent. Written translation of materials from the student's field of study. Discussion of basic problems of German-to-English translation, with examples from students' projects. Instruction in English. Cannot be used to satisfy the arts and humanities foreign language requirement.			
<b>GERM 499 Directed Study: Directed Study in German 1-3 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Plister, G
0201	Time Arranged	Room Arranged	Plister, G
<b>GERM 611 College Teaching of German 3 credits; Grading Method: REG/AUD</b>			
0101	Meets JUN 19 to JUL 8	Time Arranged	Room Arranged
Instruction, demonstration and classroom practice under supervision of modern procedures in the presentation of elementary German courses to college age students.			
<b>GERM 798 Master's Independent Study 1-3 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Plister, G
0201	Time Arranged	Room Arranged	Plister, G
<b>GERM 798A Master's Independent Study: Landeskunde 1-3 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
<b>GERM 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GERM 898 Doctoral Independent Study 1-3 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Plister, G
<b>GERM 899 Doctoral Dissertation Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

## GVPT

### GOVERNMENT AND POLITICS (BEHAVIOR AND SOCIAL SCI)

<b>GVPT 100 Principles of Government and Politics 3 credits; Grading Method: REG-P/F/AUD</b>			
Meets USF Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	MW 9:30am-12:30pm	Bldg LEF, Room 2166	Staff
0201	TuTh 9:30am-12:30pm	Bldg LEF, Room 2166	Staff
A study of the basic principles and concepts of political science. This course may be used to satisfy, in part, the social science requirement in the general education program.			
<b>GVPT 170 American Government 3 credits; Grading Method: REG-P/F/AUD</b>			
Meets USF Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	TuTh 9:30am-12:30pm	Bldg LEF, Room 1221	Staff
0201	MW 12:30pm-3:30pm	Bldg LEF, Room 1201	Staff
This course is designed as the basic course in government and it or its equivalent is a prerequisite to other courses in the department as specified in the catalog. It is a comprehensive study of government in the United States-national, state and local.			
<b>GVPT 231 Law and Society 3 credits; Grading Method: REG-P/F/AUD</b>			
0101	TuTh 12:30pm-3:30pm	Bldg LEF, Room 1201	Meintosh, W
Prerequisite: GVPT 170. A study of the basis of law and its relationship with various contemporary institutions such as the courts, police, the legal profession, and social policy at large.			
<b>GVPT 240 Political Ideologies 3 credits; Grading Method: REG-P/F/AUD</b>			
Meets USF Distributive Studies (A) Cultural and Historical requirement.			
0201	MW 9:30am-12:30pm	Bldg LEF, Room 2208	Staff
Prerequisite: GVPT 170. A survey and analysis of the leading ideologies of the modern world, including anarchism, communism, socialism, fascism, nationalism, and democracy.			
<b>GVPT 300 International Political Relations 3 credits; Grading Method: REG-P/F/AUD</b>			
Meets USF Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	MW 12:30pm-3:30pm	Bldg LEF, Room 1201	Hsueh, C
0201	TuTh 12:30pm-3:30pm	Bldg LEF, Room 1201	Kaminski, B
A study of the major factors underlying international relations, the methods of conducting foreign relations, the foreign policies of the major powers, and the means of avoiding or alleviating international conflicts. This course may be used to satisfy, in part, the social science requirement in general education program.			
<b>GVPT 306 Global Ecopolitics 3 credits; Grading Method: REG-P/F/AUD</b>			
0201	MW 9:30am-12:30pm	Bldg LEF, Room 1201	Pirages, D
Prerequisite: GVPT 170. Consideration of global problems such as the growth controversy, agricultural productivity, pollution, resource depletion, the energy crisis, and the general impact of science and technology on the world ecological, socio-economic, and political system, with particular emphasis on such matters as objects of public policy.			
<b>GVPT 376 Applied Field Research in Government and Politics 0 credits; Grading Method: REG</b>			
Course requires concurrent registration in GVPT 377 for a combined total of 9 credits.			
0101	Time Arranged	Room Arranged	Lanning, E
Students in this course participate as interns in an agency of government or in some other appropriate political organization. Assignments are arranged to provide students with insights into both theoretical and practical aspects of politics. Under the tutelage of the host agency and an academic adviser, students conduct a major research project of mutual interest to the student and his host agency in the field of government and politics. The course is open only to GVPT majors and must be taken concurrently with GVPT 377.			
<b>GVPT 377 Seminar For Academic Interns 3 credits; Grading Method: REG-P/F/AUD</b>			
Course requires concurrent registration in GVPT 376 for a combined total of 9 credits. See course description under GVPT 376.			
0101	W 3:30pm-6:30pm	Bldg LEF, Room 2138H	Lanning, E
This seminar stresses the application of major concepts of political science as they apply to the realities of the political process. Readings and discussion attempt to relate the experiences of the academic interns to appropriate literature on the subject of political decision-making. This course is open only to GVPT majors and is intended for students concurrently enrolled in GVPT 376 and/or 375.			
<b>GVPT 386 Field Work 1-3 credits; Grading Method: REG-P/F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GVPT 387 Field Work Analysis 1-3 credits; Grading Method: REG-P/F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GVPT 388 Topical Investigations 3 credits; Grading Method: REG-P/F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GVPT 388A Topical Investigations: Analysis of Concepts and Filmm Images 3 credits; Grading Method: REG-P/F/AUD</b>			
Requires concurrent registration in GVPT 399A for a combined total of 6 credits. See course description under GVPT 399A.			
0101	Meets JUN 5 to JUN 21	Time Arranged	Room Arranged
0201	MtUWThF 1:30pm-4:30pm	Bldg JMZ, Room 0220	Glass, J

**GVPT cont.**

<b>GVPT 396</b>	<b>Introduction to Political Research 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
	A required course for all honors students desiring to emphasize library, research, methodology, and writing skills in political science and political philosophy. A written proposal, bibliography and research design for an honors paper required of all students as a final project. GVPT 396 should normally be taken in the junior year.		
<b>GVPT 397</b>	<b>Honors Research 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
	Prerequisite: admission to GVPT honors program and GVPT 396. Individual reading and research. Preparation of an original paper.		
<b>GVPT 399A</b>	<b>Seminar in Government and Politics: Films and the Politics of the Family 3 credits; Grading Method: REG-P-F-AUD</b>		
	Requires concurrent registration in GVPT 388A for a total of 6 credits.		
0101	Meets JUN 5 to JUN 21	Room Arranged	Glass, J
	Time Arranged		
	Survey of films to understand nature and structure of politics of the family. Emphasis on families and anti-families, the structure of loneliness, despair, potentiality and the politics implicit in these emotional realities.		
<b>GVPT 429</b>	<b>Problems in Political Behavior 3 credits; Grading Method: REG-P-F-AUD</b>		
0201	TuTh 9:30am-12:30pm	Bldg. LEF, Room 1201	Manukian, E
<b>GVPT 442</b>	<b>History of Political Theory—Medieval to Recent 3 credits; Grading Method: REG-P-F-AUD</b>		
	Meets USP Advanced Studies Development of Knowledge requirement.		
0101	MW 12:30pm-3:30pm	Bldg. LEF, Room 2166	Terchek, R
	Prerequisite: GVPT 100. A survey of the principal theorists set forth in the works of writers from Machiavelli to J. S. Mill.		
<b>GVPT 457</b>	<b>American Foreign Relations 3 credits; Grading Method: REG-P-F-AUD</b>		
	Meets USP Advanced Studies Analysis of Human Problems requirement.		
0201	TuTh 9:30am-12:30pm	Bldg. LEF, Room 2208	McNelly, T
	Prerequisite: GVPT 170. The principles and machinery of the conduct of American foreign relations, with emphasis on the department of state and the foreign service, and an analysis of the major foreign policies of the United States.		
<b>GVPT 479</b>	<b>Problems of American Public Policy: Politics of the Vietnam War 3 credits; Grading Method: REG-P-F-AUD</b>		
0101	MW 9:30am-12:30pm	Bldg. HBK, Room 4210R	Vietri, L
<b>GVPT 741</b>	<b>Political Theory 3 credits; Grading Method: REG-AUD</b>		
0201	MW 5:30pm-9:30pm	Bldg. LEF, Room 2123	Allford, C
	A graduate level introduction to the history of political philosophy and political theory.		
<b>GVPT 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GVPT 808</b>	<b>Selected Topics in Functional Problems in International Relations 3 credits; Grading Method: REG-AUD</b>		
0101	TuTh 6:30pm-9:30pm	Bldg. LEF, Room 2123	Phillips, W
<b>GVPT 846</b>	<b>Theories of Democracy 3 credits; Grading Method: REG-AUD</b>		
0101	MW 5:30pm-9:30pm	Bldg. LEF, Room 2123	Terchek, R
	Prerequisite: GVPT 442. A survey and analysis of the leading theories of democratic government, with attention to such topics as freedom, equality, representation, dissent, and ethics of democracy.		
<b>GVPT 862</b>	<b>Seminar on Intergovernmental Relations 3 credits; Grading Method: REG-AUD</b>		
0201	MW 3:00pm-6:00pm	Bldg. LEF, Room 2138H	Reeves, M
	Reports on topics assigned for individual study and reading in the field of recent intergovernmental relations.		
<b>GVPT 873</b>	<b>Seminar in Legislatures and Legislation 3 credits; Grading Method: REG-AUD</b>		
0101	TuTh 6:30pm-9:30pm	Bldg. LEF, Room 2138H	Ulaner, E
	Reports on topics assigned for individual study and reading about the composition and organization of legislatures and about the legislative process.		
<b>GVPT 898</b>	<b>Readings in Government and Politics 3 credits; Grading Method: REG-AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>GVPT 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**HEBR**

<b>HEBREW</b>	<b>(ARTS AND HUMANITIES)</b>	
<b>HEBR 333</b>	<b>Hebrew Civilization (In English) 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (A) Cultural and Historical requirement.	
0201	MWThF 9:30am-10:50am	
	Bldg. HBK, Room 1112	
	Oded, B	
	Trends in the cultural, social and literary history of the Jews from their earliest experiences as a people until Maccabean times. Readings and instruction in English.	

**HESP**

<b>HEARING AND SPEECH SCIENCES (BEHAVIOR AND SOCIAL SCI)</b>		
<b>HESP 120</b>	<b>Introduction to Linguistics 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.	
0101	MTuWThF 9:30am-10:50am	
	Bldg. LEF, Room 1222	
	Staff	
	An introduction to the scientific study of natural language with focus on the basic concepts of phonology, syntax, semantics and pragmatics, with subsequent attention to the applied aspects of linguistic principles.	
<b>HESP 202</b>	<b>Introduction to Hearing and Speech Sciences 3 credits; Grading Method: REG-P-F-AUD</b>	
0101	MTuWThF 9:30am-10:50am	
	Bldg. LEF, Room 1210	
	Staff	
	Introduction to phonetics, the physiological bases of speech production and reception, and the physics of sound.	
<b>HESP 311</b>	<b>Anatomy, Pathology and Physiology of the Auditory System 3 credits; Grading Method: REG-P-F-AUD</b>	
0101	MTuWThF 9:30am-10:50am	
	Bldg. LEF, Room 1208	
	Gordon-Salant, S	
	Prerequisite: HESP 202. Gross anatomy of the ear and pathways for transmission of sound energy through the peripheral and central auditory system. Causes, development and effects of pathological conditions contributing to temporary or chronic hearing impairments.	
<b>HESP 400</b>	<b>Speech and Language Development in Children 3 credits; Grading Method: REG-P-F-AUD</b>	
0101	MTuWThF 11:00am-12:20pm	
	Bldg. LEF, Room 0135	
	Roth, F	
	Prerequisite: HESP 300. Analysis of the normal processes of speech and language development in children.	
<b>HESP 498</b>	<b>Seminar: Dysfluency in the School Age Child 3 credits; Grading Method: REG-P-F-AUD</b>	
0201	Meets JUL 31 to AUG 11	
	Time Arranged	
	Bldg. LEF, Room 0135	
	Ratner, N	

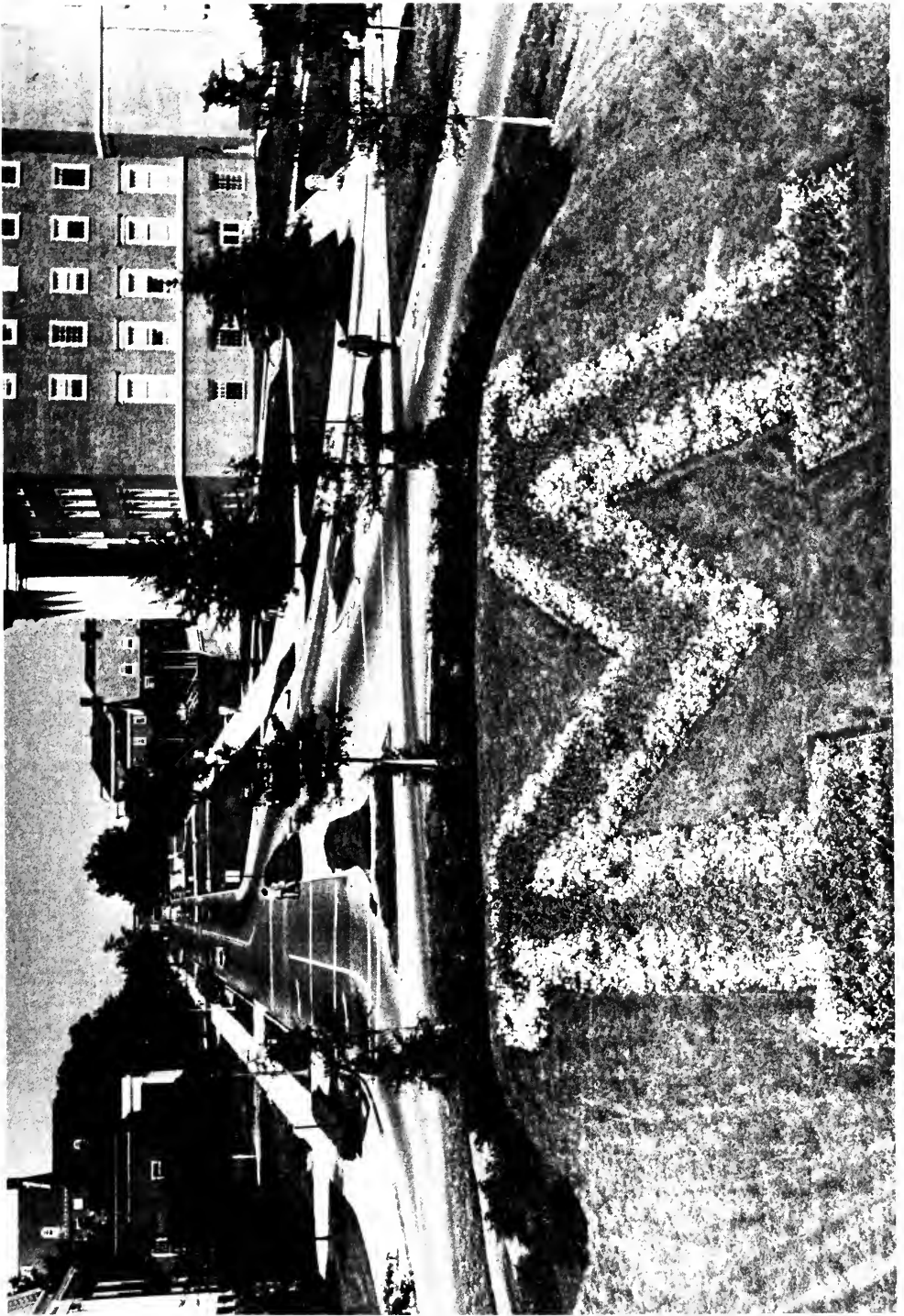
**HESP cont.**

<b>HESP 499</b>	<b>Independent Study: Topics in Hearing and Speech Sciences 1-3 credits; Grading Method: REG-P-F-AUD</b>	
0101	Time Arranged	
0201	Time Arranged	
	Room Arranged	
	Staff	
<b>HESP 610</b>	<b>Aphasia 3 credits; Grading Method: REG-AUD</b>	
0101	TuTh 12:30pm-3:00pm	
	Bldg. LEF, Room 0135	
	Rao, P	
	Language problems of adults associated with brain injury.	
<b>HESP 638</b>	<b>Research Practicum 1-3 credits; Grading Method: REG-AUD</b>	
0101	Time Arranged	
0201	Time Arranged	
	Room Arranged	
	Staff	
	Roth, F	
<b>HESP 639A</b>	<b>Special Topics in Hearing and Speech Sciences: Dysphagia 2 credits; Grading Method: REG-AUD</b>	
0201	Meets JUL 17 to JUL 28	
	Time Arranged	
	Bldg. LEF, Room 0135	
	Staff	
<b>HESP 639B</b>	<b>Special Topics in Hearing and Speech Sciences: Dysfluency in the School Age Child 2 credits; Grading Method: REG-AUD</b>	
0201	Meets JUL 31 to AUG 11	
	Time Arranged	
	Bldg. LEF, Room 0135	
	Staff	
<b>HESP 648</b>	<b>Clinical Practice in Speech 2 credits; Grading Method: REG-AUD</b>	
	Permission of department required.	
0101	Time Arranged	
	Room Arranged	
<b>HESP 649</b>	<b>Clinical Practice in Audiology 1-3 credits; Grading Method: REG-AUD</b>	
	Permission of department required.	
0101	Time Arranged	
	Room Arranged	
	McCabe, M	
<b>HESP 708</b>	<b>Independent Study 1-6 credits; Grading Method: REG-AUD</b>	
0101	Time Arranged	
0201	Time Arranged	
	Room Arranged	
	Staff	
	Staff	
<b>HESP 708A</b>	<b>Independent Study: Nature and Clinical Management of Dysphagia 2 credits; Grading Method: REG-AUD</b>	
0201	Meets JUL 17 to JUL 28	
	Time Arranged	
	Bldg. LEF, Room 0135	
	Staff	
<b>HESP 710</b>	<b>Industrial and Environmental Noise Problems 3 credits; Grading Method: REG-AUD</b>	
0101	Time Arranged	
	Prerequisite: permission of instructor. Evaluation and control of noise hazards. Effects of noise on man. Medico-legal aspects of noise-induced hearing impairment.	
<b>HESP 729</b>	<b>Advanced Clinical Practice in Audiology: Advanced Clinical Practicum 1-6 credits; Grading Method: REG-AUD</b>	
	Permission of department required.	
0101	Time Arranged	
	Room Arranged	
	McCabe, M	
<b>HESP 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>	
0101	Time Arranged	
0201	Time Arranged	
	Room Arranged	
	Staff	
<b>HESP 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>	
0101	Time Arranged	
0201	Time Arranged	
	Room Arranged	
	Staff	
	Staff	

**HIST**

(ARTS AND HUMANITIES)

<b>HISTORY</b>	<b>(ARTS AND HUMANITIES)</b>	
<b>HIST 130</b>	<b>The Ancient World 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (A) Cultural and Historical requirement.	
0101	MTuWThF 11:00am-12:20pm	
	Bldg. KEY, Room 1117	
	Holum, K	
	Interpretation of select literature and art of the ancient Mediterranean world with a view to illuminating the antecedents of modern culture: religion, the ancient near East; Greek philosophical, scientific, and literary invention; and the Roman tradition in politics and administration.	
<b>HIST 133</b>	<b>Modern Europe: 1789 - Present 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (A) Cultural and Historical requirement.	
0101	MTuWThF 9:30am-10:50am	
0201	MTuWThF 9:30am-10:50am	
	Bldg. KEY, Room 0103	
	Matossian, M	
	Harris, J	
	Nation-states in Europe since the outbreak of the French revolution. Rapid changes in industrial-economic structure and in demography related to national growth. Emergence of a distinctly modern secular society including "Europeanism" throughout the world. Emphasis on continental, western European countries and peoples, Eastern Europe and Insular Great Britain.	
<b>HIST 145</b>	<b>The Humanities II 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (A) Cultural and Historical requirement.	
0201	MTuWThF 12:30pm-1:50pm	
	Bldg. KEY, Room 1117	
	Majeska, G	
	A survey of man's cultural development from the Renaissance to the present. Particular emphasis is given to the arts, philosophy, religion, and social conditions which have influenced the common cultural heritage of western civilization. Aspects of the culture of the non-western world included when appropriate. Students previously enrolled in HIST 252 not admitted.	
<b>HIST 156</b>	<b>History of the United States to 1865 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (A) Cultural and Historical requirement.	
0101	MTuWThF 12:30pm-1:50pm	
0201	MTuWThF 8:00am-9:20am	
	Bldg. KEY, Room 1117	
	Brodbury, M	
	Smith, B	
	A survey of the history of the United States from colonial times to the end of the Civil War. Emphasis on the establishment and development of American institutions.	
<b>HIST 157</b>	<b>History of the United States Since 1865 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.	
0101	MTuWThF 8:00am-9:20am	
0201	MTuWThF 11:00am-12:20pm	
	Bldg. KEY, Room 1117	
	Moss Jr., A	
	A survey of economic, social, intellectual, and political developments since the Civil War. Emphasis on industrialization on women's economic activities and status, and women's involvement in political and social struggles including those for women's rights, birth control, and civil rights.	
<b>HIST 211</b>	<b>Women in America Since 1880 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (A) Cultural and Historical requirement.	
0101	MTuWThF 11:00am-12:20pm	
	Bldg. KEY, Room 0117	
	Gullickson, G	
	An examination of women's changing roles in working class and middle class families, the effects of industrialization on women's economic activities and status, and women's involvement in political and social struggles including those for women's rights, birth control, and civil rights.	
<b>HIST 235</b>	<b>History of Britain 1461 to 1714 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Distributive Studies (A) Cultural and Historical requirement.	
0201	MTuWThF 11:00am-12:20pm	
	Bldg. KEY, Room 0116	
	Breslow, M	
	British history from the War of the Roses to the Hanoverian succession; Yorkist and Tudor society and politics; the Renaissance and Reformations in England, Henry VIII through Elizabeth; 17th century crises and revolutions; intellectual and cultural changes; the beginnings of empire; the development of political and intellectual order.	
<b>HIST 312A</b>	<b>Crisis and Change in the United States: The Changing Urban Scene 3 credits; Grading Method: REG-P-F-AUD</b>	
	Meets USP Advanced Studies Analysis of Human Problems requirement.	
0201	MTuWThF 11:00am-12:20pm	
	Bldg. KEY, Room 0103	
	Flack, J	
	This course explores the changing urban scene in the U. S. with emphasis on the effects of urbanization on values, family patterns, intergroup relations and social structure. Theories about urbanization will be considered in relation to the historical evidence regarding cities at different stages of the national development.	



**HIST cont.**

HIST 313	<b>Crisis and Change in European Society: Freedom and Authority</b> 3 credits; Grading Method: REG-P/FAUD		
0201	MtUWTHF 9:30am-10:50am	Bldg. KEY, Room 1117	Eckstein, A
HIST 337	<b>Europe in the World Setting of the 20th Century</b> 3 credits; Grading Method: REG-P/FAUD		
0101	MtUWTHF 11:00am-12:20pm	Bldg. KEY, Room 0121	Kant, G
	Political, economic and cultural developments in 20th century Europe with special emphasis on the factors involved in the two world wars and their global impacts and significance.		
HIST 347	<b>History of Crime and Punishment</b> 3 credits; Grading Method: REG-P/FAUD		
0201	MtUWTHF 9:00am-10:50am	Bldg. KEY, Room 0120	Cookson, J
	Emphasis on the historical development of law enforcement agencies, criminal jurisdictions and trial procedure, 1500-1800. Nature of principle felonies and major trends in crime; penal theory and practice in historical perspective.		
HIST 360	<b>American Colonial History</b> 3 credits; Grading Method: REG-P/FAUD		
0101	MtUWTHF 12:30pm-1:50pm	Bldg. KEY, Room 0103	McCusker, J
	Colonial America from Jamestown to 1763. The establishment of a variety of colonies with emphasis on the reasons for the instability of colonial society to 1689; the emergence of stable societies after 1689; the development of colonial regionalism, political institutions, social divisions, education, urban and frontier problems in the eighteenth century.		
HIST 363	<b>The Middle Period of American History, 1824-1860</b> 3 credits; Grading Method: REG-P/FAUD		
0201	MtUWTHF 9:30am-10:50am	Bldg. KEY, Room 0116	Ridgway, W
	An examination of the political history of the United States from Jackson to Lincoln with particular emphasis on the factors producing Jacksonian Democracy, Manifest Destiny, the Whig Party, the anti-slavery movement, the Republican Party, and Secession		
HIST 367	<b>The United States Since World War II</b> 3 credits; Grading Method: REG-P/FAUD		
0201	MtUWTHF 12:30pm-1:50pm	Bldg. KEY, Room 0103	Staff
	American history from the inauguration of Harry S. Truman to the present with emphasis upon politics and foreign relations, but with consideration of special topics such as radicalism, conservatism, and labor		
HIST 398	<b>Honors Thesis</b> 3 credits; Grading Method: REG-P/FAUD		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HIST 410	<b>Introduction to Archives I</b> 3 credits; Grading Method: REG-P/FAUD		
0101	Tu 7:00pm-10:00pm	Bldg. KEY, Room 2119	Grimsted, D
	Time Arranged		
	Prerequisite: Consent of department. Corequisite: HIST 411 History of the basic intellectual problems relating to archives and manuscript repositories; emphasis on problems of selection, access, preservation, inventorying and editing as well as the variety of institutions housing documents		
HIST 411	<b>Introduction to Archives II</b> 3 credits; Grading Method: REG-P/FAUD		
0101	Time Arranged	Room Arranged	Grimsted, D
	Time Arranged		
	Prerequisite: Consent of department. Corequisite: HIST 410 Practical experience through placement in cooperating archives of manuscript repositories in the Baltimore/Annapolis/Washington, D.C. areas - Assignments to specific projects based on intellectual interest of students.		
HIST 419A	<b>Special Topics in History: Field Work in Archaeology and History</b> 3 credits; Grading Method: REG-P/FAUD		
	Permission of department required. Undergraduate students desiring 6 hours credit should register concurrently in HIST 499, SECTION 0101; graduate students desiring 6 hours credit should enroll in HIST 619S, section 0101.		
0101	Time Arranged	Room Arranged	Holm, K
	Course will be offered in Casarea Maritima and Rehovot-ba-Negev, Israel May 28 - June 23 (Casarea), July 2 - August 4 (Rehovot).		
HIST 499	<b>Independent Study</b> 1-3 credits; Grading Method: REG-P/FAUD		
	Permission of department required		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HIST 619B	<b>Special Topics in History: Independent Study</b> 1-3 credits; Grading Method: REG/AUD		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HIST 619T	<b>Special Topics in History: Seminar in American History</b> 1-3 credits; Grading Method: REG/AUD		
	Course designed for secondary teachers of American history.		
0101	Meets JUL 10 to JUL 28		
	9:00am-12:00pm	Bldg. KEY, Room 2119	Farrell, R
	M 9:00am-12:00pm	Bldg. KEY, Room 2119	
	Th 1:00pm-3:00pm	Bldg. KEY, Room 2119 (DIS)	
	M 1:00pm-3:00pm	Bldg. KEY, Room 2119 (DIS)	
HIST 799	<b>Master's Thesis Research</b> 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HIST 899	<b>Doctoral Dissertation Research</b> 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**HLTH**

(PHYS ED, RECR, AND HEALTH)

**HEALTH**

HLTH 106	<b>Drug Use and Abuse</b> 3 credits; Grading Method: REG-P/FAUD		
0101	MtUWTHF 11:00am-12:20pm	Bldg. PRH, Room 0302	Beck, K
0201	MtUWTHF 11:00am-12:20pm	Bldg. PRH, Room 0302	Staff
	An interdisciplinary analysis of contemporary drug issues and problems. The course will examine physiological, psychological, social, philosophical, historical, legal and health aspects of drug use and abuse. Special attention will be focused on those general motivations for drug use that attend life on the college campus.		
HLTH 140	<b>Personal and Community Health</b> 3 credits; Grading Method: REG-P/FAUD		
0101	MtUWTHF 11:00am-12:20pm	Bldg. PRH, Room 0305	Mann, P
0102	MtUWTHF 9:30am-10:50am	Bldg. PRH, Room 0302	Miller, C
0201	MtUWTHF 11:00am-12:20pm	Bldg. PRH, Room 1301	Hyde, D
	Meaning and significance of physical, mental and social health as related to the individual and to society; important phases of national health problems; constructive methods of promoting health of the individual and the community.		
HLTH 150	<b>First Aid and Emergency Medical Services</b> 2 credits; Grading Method: REG-P/FAUD		
0101	MtUWTH 8:00am-9:20am	Bldg. PRH, Room 0302	Staff
0102	MtUWTH 9:30am-10:50am	Bldg. PRH, Room 0302	Staff
0201	MtUWTH 8:00am-9:20am	Bldg. PRH, Room 0302	Staff
	Lecture, demonstration and training in emergency care, including cardiopulmonary resuscitation, hemorrhage control, shock, poisons and bone injury treatment and childbirth. American Red Cross and Heart Association of Maryland Certification awarded		
HLTH 285	<b>Controlling Stress and Tension</b> 3 credits; Grading Method: REG-P/FAUD		
	Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0101	MtUWTHF 9:30am-10:50am	Bldg. PRH, Room 1301	Greenberg, J
0102	TuTh 4:00pm-7:00pm	Bldg. PRH, Room 1302	Allen, R
0201	MtUWTHF 9:30am-10:50am	Bldg. PRH, Room 1301	Hyde, D
	Health problems related to stress and tension. Analysis of causative psycho-social stressors and intervening physiological mechanisms. Emphasis on prevention and control of stress through techniques such as biofeedback, meditation and neuromuscular relaxation.		
HLTH 377	<b>Human Sexuality</b> 3 credits; Grading Method: REG-P/FAUD		
	Students who have received credit for HLTH 477 not eligible.		
0101	MtUWTHF 11:00am-12:20pm	Bldg. PRH, Room 1301	Greenberg, J
0201	MtUWTHF 8:00am-9:20am	Bldg. PRH, Room 1301	Sawyer, R
	The biological, developmental aspects of human sexuality; the psychological and emotional aspects of sexual behavior; sexual identity; the historical, cultural, social, linguistic, legal and moral forces affecting sexual issues; the importance of communication, disclosure and intimacy in interpersonal relationships; and research trends in the area of human sexuality.		
HLTH 386	<b>Field Work 1-3 credits; Grading Method: REG-P/FAUD</b>		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HLTH 387	<b>Field Work Analysis 1-3 credits; Grading Method: REG-P/FAUD</b>		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HLTH 430	<b>Health Education in the Workplace</b> 3 credits; Grading Method: REG/AUD		
0101	MtUWTHF 11:00am-12:20pm	Bldg. PRH, Room 0303	Feldman, R
	A survey of health education in health education in the examination of occupational stress, the health effects of shift work, women's health in the workplace, health education approaches to informing workers and management, and health promotion programs in the workplace.		
HLTH 450	<b>Health of Children and Youth</b> 3 credits; Grading Method: REG-P/FAUD		
0101	MtUWTHF 12:30pm-1:50pm	Bldg. PRH, Room 1301	Miller, C
	A study of the health of 5 to 18 year olds. Physical, mental, social, and emotional health. Psychosocial development, diet, exercise, recreation, and the roles of parents and teachers.		
HLTH 455	<b>Physical Fitness of the Individual</b> 3 credits; Grading Method: REG-P/FAUD		
	Students with credit in HLTH 498B are not eligible.		
0101	MtUWTHF 9:30am-10:50am	Bldg. PRH, Room 0305	Mann, P
	Study of major physical fitness problems confronting the adult in modern society. Consideration given to the scientific appraisal, development and maintenance of fitness at all age levels. Obesity, weight reduction, chronic fatigue, posture, and special exercise programs are explored. Open to persons outside the physical education and health fields.		
HLTH 456	<b>Health of the Aging and Aged</b> 3 credits; Grading Method: REG-P/FAUD		
0201	MW 7:00pm-10:00pm	Bldg. PRH, Room 1301	Staff
	Psychological, physiological and socio-economic aspects of aging; nutrition; sexuality; death, dying, and bereavement; self-actualization and creativity; health needs and crises of the aged.		
HLTH 471	<b>Women's Health</b> 3 credits; Grading Method: REG-P/FAUD		
0101	MtUWTHF 12:30pm-1:50pm	Bldg. PRH, Room 0302	Staff
	The woman's health movement from the perspective of consumerism and feminism. The physician-patient relationship in the gynecological and other medical settings. The gynecological exam, gynecological problems, contraception, abortion, pregnancy, breast and cervical cancer and surgical procedures. Psychological aspects of gynecological concerns.		
HLTH 476	<b>Death Education</b> 3 credits; Grading Method: REG-P/FAUD		
	Meets USP Advanced Studies Analysis of Human Problems requirement.		
0101	MW 7:00pm-10:00pm	Bldg. PRH, Room 1303	Staff
	Examination of the genesis and development of present day death attitudes and behavior by use of a multidisciplinary life cycle approach.		
HLTH 489	<b>Field Laboratory Projects and Workshop</b> 1-6 credits; Grading Method: REG-P/FAUD		
	Contact department to make arrangements.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HLTH 498T	<b>Special Topics in Health: Ways of Knowing About Human Stress and Tension</b> 3 credits; Grading Method: REG-P/FAUD		
	Meets USP Advanced Studies Development of Knowledge requirement. Prerequisite: HLTH 285.		
0101	MW 4:00pm-7:00pm	Bldg. PRH, Room 1301	Allen, R
0102	TuTh 4:00pm-7:00pm	Bldg. PRH, Room 1301	Schiraldi, G
HLTH 498V	<b>Special Topics in Health: Substance Abuse Programming</b> 3 credits; Grading Method: REG-P/FAUD		
0101	MW 4:00pm-7:00pm	Bldg. PRH, Room 0302	Beck, K
HLTH 498X	<b>Special Topics in Health: Aids Education and Prevention</b> 3 credits; Grading Method: REG-P/FAUD		
0201	TuTh 7:00pm-10:00pm	Bldg. PRH, Room 1301	Thomas, S
HLTH 665	<b>Health Behavior</b> 3 credits; Grading Method: REG/AUD		
0101	TuTh 4:00pm-7:00pm	Bldg. PRH, Room 0303	Feldman, R
	The psychological, social, psychological, and sociological theories of health behavior. The relation of health knowledge, beliefs, attitudes, intentions, and behavior to preventive, illness, sick-role, and health utilization behavior.		
HLTH 688	<b>Special Problems in Health Education</b> 1-6 credits; Grading Method: REG/AUD		
	Contact department to make arrangements.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HLTH 688X	<b>Special Problems in Health Education: Writing for Publication</b> 3 credits; Grading Method: REG/AUD		
0101	MW 4:00pm-7:00pm	Bldg. PRH, Room 0303	Gold, R
HLTH 785	<b>Internship in Health Education</b> 3 credits; Grading Method: REG/AUD		
0101	Time Arranged	Bldg. PRH, Room 2387	Staff
	Prerequisites: HLTH 665, HLTH 675, and HLTH 680; or permission of department. The application of previously acquired skills and knowledge to the planning, conduct, and evaluation of health education. Emphasis on education designed to affect and use psychosocial influences of health behavior. The setting of the internship will depend upon the student's background and career goals.		
HLTH 799	<b>Master's Thesis Research</b> 1-6 credits; Grading Method: REG		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
HLTH 899	<b>Doctoral Dissertation Research</b> 1-6 credits; Grading Method: REG		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**HONR**

(UNDERGRADUATE STUDIES)

**HONORS**

HONR 379	<b>Honors Independent Study</b> 1-6 credits; Grading Method: S-F		
0201	Time Arranged	Room Arranged	Staff



# HORT

(AGRICULTURE)

## HORTICULTURE

<b>HORT 160</b> Introduction to Landscape Architecture 3 credits; Grading Method: REG/P-F/AUD			
0101	MTuWThF 9:30pm-4:30pm	Bldg. ASY, Room 2109	Hamed, S
Theory and general principles of landscape architecture with their application to public and private areas.			
<b>HORT 386</b> Field Work 1-3 credits; Grading Method: REG/P-F/AUD			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>HORT 387</b> Field Work Analysis 1-3 credits; Grading Method: REG/P-F/AUD			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>HORT 399</b> Special Problems 2 credits; Grading Method: REG/P-F/AUD			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>HORT 699</b> Special Problems in Horticulture 1-3 credits; Grading Method: REG/AUD			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>HORT 799</b> Master's Thesis Research 1-6 credits; Grading Method: REG			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>HORT 899</b> Doctoral Dissertation Research 1-8 credits; Grading Method: REG			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

# HSAD

(ARTS AND HUMANITIES)

## HOUSING AND DESIGN

<b>HSAD 210</b> Presentation Techniques I 3 credits; Grading Method: REG/P-F/AUD			
0101	Meets JUN 5 to JUL 27	TuTh 8:00am-12:30pm Bldg. MMH, Room 1108	Hoover, B
Prerequisite: APDS 103 or equivalent. Basic techniques for making two dimensional presentations of existing space utilizing technical skills to convey design solutions.			
<b>HSAD 306</b> Field Work 1-3 credits; Grading Method: REG			
Permission of department required.			
0101	Meets JUN 5 to JUL 27	Room Arranged	Hoover, B
<b>HSAD 387</b> Field Work Analysis 1-3 credits; Grading Method: REG			
Permission of department required.			
0101	Meets JUN 5 to JUL 27	Room Arranged	Hoover, B
<b>HSAD 488A</b> Selected Topics in Housing and Interior Design: Computer Application In Space Design 3 credits; Grading Method: REG/P-F/AUD			
0101	Meets JUN 5 to JUL 27	MW 1:00pm-5:00pm Bldg. MMH, Room 1413A	Eckersley, M
Time Arranged			
<b>HSAD 488G</b> Selected Topics in Housing and Interior Design: Computer Imaging 3 credits; Grading Method: REG/P-F/AUD			
Permission of department required.			
0101	Meets JUN 5 to JUL 27	Room Arranged (LAB)	Gips, C
Time Arranged			
<b>HSAD 488I</b> Selected Topics in Housing and Interior Design: Lighting Design 3 credits; Grading Method: REG/P-F/AUD			
0101	Meets JUN 5 to JUL 27	Bldg. MMH, Room 1108	Hoover, B
Time Arranged			
<b>HSAD 499</b> Individual Study In Housing and/or Interior Design 3 credits; Grading Method: REG			
0201	Time Arranged	Room Arranged	Staff

# ITAL

(ARTS AND HUMANITIES)

## ITALIAN

<b>ITAL 101</b> Elementary Italian I 4 credits; Grading Method: REG/P-F/AUD			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MTuWThF 8:30am-10:30am	Bldg. JMZ, Room 3120	Russell, C
Introduction to basic grammar and vocabulary; written and oral work. Credit will not be given for both ITAL I and ITAL 121.			
<b>ITAL 475</b> Italian Cinema: A Cultural Approach 3 credits; Grading Method: REG/P-F/AUD			
0201	MWTh 11:00am-1:30pm	Bldg. JMZ, Room 0205	Falvo, G
A study of Italian society and culture through the medium of literature and film. Emphasis on neorealism (Rossellini, De Sica, Visconti) and post-neorealism (Fellini, Antonioni) with reference to some major Italian writers (Boccaccio, Verga, Moravia and Levi). In English. The culture of Italy through the medium of film from the silent days up to the present. In English.			

# IVSP

(UNDERGRADUATE STUDIES)

## INDIVIDUAL STUDIES PROGRAM

<b>IVSP 318</b> Individual Studies 1-15 credits; Grading Method: REG			
Permission of department required. IVSP majors only.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>IVSP 319</b> Tutorial Report 1 credit; Grading Method: S-F			
Permission of department required. IVSP majors only.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>IVSP 320</b> Bachelor's Report 3 credits; Grading Method: REG			
Permission of department required. IVSP majors only.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
Required of all students in the Individual Studies Program whose program includes 40% or more of informal educational experience (independent study, special problems, work intership, etc.) And is strongly recommended for all students in the program. This paper is to be completed in the student's final semester and approved by the tutor and committee prior to certification for the degree.			

# JAPN

(ARTS AND HUMANITIES)

## JAPANESE

<b>JAPN 101</b> Elementary Japanese I 6 credits; Grading Method: REG/P-F			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MTuWThF 9:30am-12:20pm	Bldg. JMZ, Room 0120	Mura, E
Introduction to basic patterns of contemporary spoken Japanese and to the two phonetic syllabaries (Katakana and Hiragana).			
<b>JAPN 102</b> Elementary Japanese II 6 credits; Grading Method: REG			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	MTuWThF 9:30am-12:20pm	Bldg. TWS, Room 1202	Yaginuma, K
Prerequisite: JAPN 101 or equivalent. Continued introduction to the basic spoken and written patterns of contemporary Japanese.			
<b>JAPN 201</b> Intermediate Spoken Japanese I 3 credits; Grading Method: REG			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MTuWThF 9:30am-12:20pm	Bldg. JCC, Room 1102	Sano, T
Prerequisite: JAPN 102 or equivalent. Further study of grammar with emphasis on the spoken language.			
<b>JAPN 202</b> Intermediate Written Japanese I 3 credits; Grading Method: REG			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MTuWThF 11:00am-12:20pm	Bldg. JCC, Room 1102	Sano, T
Prerequisite: JAPN 103 or equivalent. Continued study of the written Japanese language through reading and composition.			
<b>JAPN 203</b> Intermediate Spoken Japanese II 3 credits; Grading Method: REG			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	MTuWThF 9:30am-10:50am	Bldg. ASY, Room 3215	Staff
Prerequisite: JAPN 201 or equivalent. Continuation of JAPN 201.			
<b>JAPN 204</b> Intermediate Written Japanese II 3 credits; Grading Method: REG			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0202	MTuWThF 11:00am-12:20pm	Bldg. JCC, Room 1102	Staff
Prerequisite: JAPN 202 or equivalent. A continuation of JAPN 202.			

# JOUR

(JOURNALISM)

## JOURNALISM

<b>JOUR 100</b> Introduction to Mass Communication 3 credits; Grading Method: REG			
Meets USP Distributive Studies (D) Social and Behavioral requirement.			
0101	MTuWThF 11:00am-12:20pm	Bldg. JRN, Room 1104	Hiebert, R
Survey of the functions and effects of the mass media in the United States. A consumer's introduction to newspapers, television, radio, film, sound recording, books, magazines, and new media technology. Introduction to public relations, advertising, and news analysis.			
<b>JOUR 201</b> Writing For Mass Media 3 credits; Grading Method: REG			
A 5-minute typing test is required. Must have at least 28 credits earned. During Summer Sessions I and II only. JOUR 201 is open to non-majors.			
0101	MTuWThF 9:30am-4:50pm	Bldg. JRN, Room 3102	Roche, J
0102	MTuWThF 9:30am-10:50am	Bldg. JRN, Room 3102	Barkin, S
Prerequisite: 30 words per minute typing ability; provisional or direct admission to journalism major. Introduction to news, feature and publicity writing for the printed and electronic media; development of news concepts, laboratory in news gathering tools and writing skills.			
<b>JOUR 202</b> Editing For the Mass Media 3 credits; Grading Method: REG			
Provisional and majors only.			
0101	MTuWThF 11:00am-12:20pm	Bldg. JRN, Room 3111	Barkin, S
0201	MTuWThF 9:30am-10:50am	Bldg. JRN, Room 3111	Stapp Jr., A
Prerequisite: grade of C or better in JOUR 201. Basic editing skills applicable to all mass media: copy editing, graphic principles and processes, new media technology.			
<b>JOUR 320</b> News Reporting 3 credits; Grading Method: REG			
Majors only.			
0201	MTuWThF 11:00am-12:20pm	Bldg. JRN, Room 3102	Stapp Jr., A
Prerequisite: grade of C or better in JOUR 302. Principles and practices of news reporting with special emphasis on news gathering for all the media; covering news beats and other news sources, including researching a news story for accuracy, comprehensiveness and interpretation.			
<b>JOUR 330</b> Public Relations Theory 3 credits; Grading Method: REG			
Majors only and BMGT 0515A and BMGT 0520A.			
0101	MTuWThF 9:30am-10:50am	Bldg. JRN, Room 1104	Hiebert, R
Prerequisite: grade of C or better in JOUR 201. The historical development and contemporary status of public relations in business, government, associations and other organizations. Application of communication theory and social science methods to the research, planning, communication and evaluation aspects of the public relations process.			
<b>JOUR 331</b> Public Relations Techniques 3 credits; Grading Method: REG			
Majors only.			
0101	MTuWThF 1:00pm-3:00pm	Bldg. JRN, Room 3102	Zerbinos, E
Prerequisite: JOUR 330, and grade of C or better in JOUR 302. The techniques of public relations including news releases, publications and printed materials, audio-visual techniques, speeches and special events. Application of these techniques in laboratory and field projects.			
<b>JOUR 340</b> Advertising Communication 3 credits; Grading Method: REG/P-F/AUD			
0101	MTuWThF 11:00am-12:20pm	Bldg. JRN, Room 1105	Zanol, E
Prerequisite: grade of C or better in JOUR 201. Advertising as a mass communication profession and its role in the public information system of the United States. Application of communication theory and research methods to the research, planning, communication, and evaluation aspects of advertising.			
<b>JOUR 341</b> Advertising Techniques 3 credits; Grading Method: REG			
Majors only.			
0101	MTuWThF 9:30am-10:50am	Bldg. JRN, Room 3111	Zanol, E
Prerequisites: JOUR 340; and grade of C or better in JOUR 202. Writing and production of print and broadcast advertisements; application of these techniques in laboratory and field projects.			
<b>JOUR 342</b> Advertising Media Planning 3 credits; Grading Method: REG			
Majors only.			
0201	MTuWThF 9:30am-10:50am	Bldg. JRN, Room 3102	Keenan, K
Prerequisite: JOUR 340. Principles of planning, placing and evaluating advertising media in U.S. media markets. Application of theory and methods to specific advertising situations.			
<b>JOUR 352</b> Special Topics In Photojournalism 3 credits; Grading Method: REG			
Estimated supply costs \$125. Concentration in shooting and processing of color and use of color in print.			
0101	Th 6:00pm-9:00pm	Bldg. JRN, Room 2116	Roche, J
0201	Tu 6:00pm-9:00pm	Bldg. JRN, Room 2116 (LAB)	Roche, J
Prerequisites: JOUR 351 and permission of instructor. An analysis of the theory and application of advanced photographic processes to the communication of ideas, including direct audience communication, realistic and nonrealistic visual materials and media.			
<b>JOUR 373</b> Graphics 3 credits; Grading Method: REG			
Majors only.			
0201	MTuWThF 8:00am-9:20am	Bldg. JRN, Room 3111	Smith, M
Prerequisite: grade of C or better in JOUR 202. Comprehensive analysis of the components of publication content and design. Type and typography, printing processes, illustration and production with emphasis on contemporary technology.			

**JOUR cont.**

**JOUR 396 Supervised Internship 3 credits; Grading Method: REG**  
 For majors only. Contact Lois Kay, 111B Journalism Building. Proof of registration required when seeking approval of internship in 111B Journalism. No retroactive adds.

0101 Meets JUN 5 to AUG 25  
 Time Arranged Bldg. JRN, Room 111B Kay, L  
 Prerequisites: grade of C or better in JOUR 302 and first course of journalism sequence related to techniques [i.e. JOUR 320; or JOUR 331; or JOUR 341; or JOUR 350; or JOUR 360; or JOUR 380] and permission of department. Internship experience with communication professionals in newspapers, news broadcasting, public relations, advertising, magazines, photojournalism, and science communication. Retiring of academic training to professional experience.

**JOUR 398 Independent Study 1-3 credits; Grading Method: REG**  
 Contact department to make arrangements. Majors only.

0101 Time Arranged Room Arranged Room Arranged Staff Staff  
 0201 Time Arranged Room Arranged Room Arranged Staff Staff

**JOUR 400 Law of Mass Communication 3 credits; Grading Method: REG/AUD**  
 0101 TuTh 6:00pm-9:00pm Bldg. JRN, Room 1104 Zernbus, E  
 Legal rights and constraints of mass media; libel, privacy, copyright, monopoly, contempt, and other aspects of the law applied to mass communication. Previous study of the law not required.

**JOUR 450 Mass Media in Society 3 credits; Grading Method: REG**  
 0201 MTuWThF 3:30pm-4:50pm Bldg. JRN, Room 1105 Levy, M  
 Ethical, moral, political, economic, and social consideration of mass communication

**JOUR 477 Mass Communication Research 3 credits; Grading Method: REG**  
 0201 MTuWThF 8:00am-9:20am Bldg. JRN, Room 1105 Keenan, K  
 Prerequisite: MATH 110 or equivalent; students are encouraged to have completed the theory and technique courses in their major sequence. Communication research methods used in measuring public opinion and evaluating public relations, advertising, and mass media programs and materials.

**JOUR 490 Advancing Student Publications 3 credits; Grading Method: REG**  
 0101 Meets JUN 26 to JUL 14 Bldg. JRN, Room 1104 McAdams, K  
 MTuWThF 2:00pm-5:00pm Bldg. JRN, Room 1104 McAdams, K  
 Journalistic writing and editing in student newspapers, yearbooks, and magazines; libel and policy; curriculum and teaching procedures; role of student publications.

**JOUR 492 Typography and Layout For Student Publications 3 credits; Grading Method: REG**  
 0101 Meets JUN 26 to JUL 14 Bldg. JRN, Room 3103 Smith, M  
 MTuWThF 9:00am-12:30pm Bldg. JRN, Room 3103 Smith, M  
 Type design, type families, graphics, art, photography, and editorial and advertisement layout of school newspapers, yearbooks, and magazines.

**JOUR 601 Theories of Mass Communication 3 credits; Grading Method: REG**  
 0201 TuTh 6:00pm-9:00pm Bldg. JRN, Room 1116 (DIS) Levy, M

**JOUR 698 Special Topics in Communication 3 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff Staff  
 0201 Time Arranged Room Arranged Staff Staff

**JOUR 798 Masters Professional Fieldwork 3 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff Staff  
 0201 Time Arranged Room Arranged Staff Staff

**JOUR 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff Staff  
 0201 Time Arranged Room Arranged Staff Staff

**LATIN (ARTS AND HUMANITIES)**

**LATN 120 Intensive Latin 4 credits; Grading Method: REG/P-F/AUD**  
 Meets USP Distributive Studies (A) Cultural and Historical requirement.

0201 MTuWThF 11:00am-12:40pm Bldg. JMZ, Room 1104 Lavine, M  
 Prerequisite: permission of instructor. Not open for credit to students with credit for LATN 102. Elements of Latin grammar and vocabulary; elementary reading. The first year's study of Latin compressed into a single semester.

**LATN 220 Intermediate Intensive Latin 4 credits; Grading Method: REG/P-F/AUD**  
 Meets USP Distributive Studies (A) Cultural and Historical requirement.

0201 MTuWThF 11:00am-12:40pm Bldg. JMZ, Room 0204 Mejer, J  
 Prerequisites: LATN 102 or LATN 120, or equivalent. Not open to students with credit for LATN 204. Review of Latin grammar; reading in prose and poetry from selected authors

**LATN 499 Independent Study in Latin Language and Literature 3 credits; Grading Method: REG/P-F/AUD**  
 Permission of department required

0101 Time Arranged Room Arranged Rowland, R  
 0201 Time Arranged Room Arranged Rowland, R

**LATN 601 Latin Pedagogy 3 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged O'Donnell, M  
 Practical problems and theoretical issues such as the nature method approach to language instruction, self-paced and intensive approaches to Latin and Greek, computer-assisted instruction and teaching of culture through language.

**LATN 688 Special Topics in Latin Literature: Ovid 3 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Lavine, M

**LBSB (LIBRARY AND INFO SERVICES)**

**LIBRARY SCIENCE (LIBRARY AND INFO SERVICES)**

**LBSB 499A Workshops, Clinics, and Institutions: Workshop in Archival Automation 3 credits; Grading Method: S-F**  
 For information on non-credit workshop, (fee \$500) contact Jean Diepenbrock in the College of Library and Information Services, 454-3016. Additional project and lab required.

0101 MW 10:00am-12:00pm Bldg. HBK, Room 0105 Burke, F  
 Explores computer applications in a broad range of records management and archival activities, including control of office files through appraisal, accessioning, arrangement, description, and use. Special emphasis will be placed on administering documentary collections with computer assistance

**LBSB 600 Seminar: the Operation of Libraries and Information Services 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Meets Monday, Tuesday and Wednesday, June 26 through August 16.

0101 Meets JUN 26 to AUG 16 Bldg. HBK, Room 0109 Kidd, J  
 MTuW 12:00pm-2:00pm Bldg. HBK, Room 0109 Kidd, J  
 Background and orientation for advanced study in library and information services, including such areas as communication, the use and economics of information, libraries as social institutions and as organizations, and professional education. Required of all students.

**LBSB 651 Introduction to Reference and Information Services 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Meets Monday, Tuesday and Wednesday, June 26 through August 16.

0101 Meets JUN 26 to AUG 16 Bldg. HBK, Room 0109 Cunningham, W  
 MTuW 9:00am-11:00am Bldg. HBK, Room 0109 Cunningham, W  
 Information and reference systems, services, and tools provided in libraries and information centers. Problems and concepts of communication, question formulation, bibliographic control, and search processes are considered. Major types of information sources and modes of information delivery are

**LBSB cont.**

introduced. Required of all MLS students.

**LBSB 690 Introduction to Data Processing For Libraries and Information Services 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Plus additional lab and project.

0101 MW 5:30pm-8:30pm Bldg. HBK, Room 0103 Abels, E  
 General introduction to computers and their use in libraries and other information systems. Includes systems analysis, data base management systems, file structure, structured programming, and data processing applications and their management.

**LBSB 691 Microcomputers in Information Processing 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Plus additional lab and project.

0201 MTuThF 12:00pm-1:30pm Bldg. HBK, Room 0115 Barlow, D  
 Introduction to microcomputers via practical experience with programming, database management and information processing, word processing, instructional packages, and other applications. The use of personal computers in homes, schools, offices, libraries, and information centers.

**LBSB 707 Field Study in Library Service 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Permission must be approved prior to May 15, 1989.

0201 Time Arranged Room Arranged Cunningham, W  
 Prerequisites: LBSB 600; and LBSB 651; and LBSB 671; and (LBSB 690 or LBSB 691) and permission of both department and instructor. Familiarization of students with library operations through unpaid, supervised experience and/or the opportunity to perform a study to solve a specific problem in a suitable library or other information agency.

**LBSB 708 Special Topics in Library and Information Service: Management of On-Line Services in Schools 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Meets Monday, Tuesday, Thursday and Friday, June 26 - July 14 plus Saturday, July 8, 9am-3pm.

0101 Meets JUN 26 to JUL 14 Bldg. HBK, Room 0115 Aversa, E  
 MTuThF 8:30am-11:30am Bldg. HBK, Room 0115 Aversa, E  
 MTuThF 6:30am-11:30am Bldg. HBK, Room 0115 Aversa, E  
 Planning, implementation, management and evaluation of on-line services in the school environment. Includes hands-on introduction to search techniques.

**LBSB 708D Special Topics in Library and Information Service: Database Management 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Plus additional lab and project.

0201 TuTh 9:00am-12:00pm Bldg. HBK, Room 4113 Green, R  
 Development of a reasonably large application (such as an information system for music recordings or a servals control system) using a relational database management system (DBMS) (such as Knowledgebase, dBASE, or RBASE 5.00) on a microcomputer.

**LBSB 708U Special Topics in Library and Information Service: Classification Theory 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Prerequisite: LBSB 671.

0201 MTuThF 1:00pm-3:00pm Bldg. HBK, Room 4113 Green, R  
 Survey of classification principles applied to bibliographical, philosophical, cognitive and linguistic phenomena. Special emphasis on cognitive sciences challenges to traditional principles of classification.

**LBSB 709 Independent Study 1-3 credits; Grading Method: REG/AUD**  
 Permission of department required. Permission of CLIS Admissions Committee required.

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**LBSB 727 Science Information and the Organization of Science 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Plus additional project.

0201 Tu 6:00pm-9:00pm Bldg. HBK, Room 0103 Kidd, J  
 Sa 9:30am-12:30pm Bldg. HBK, Room 0103 Kidd, J  
 Institutional environments in which science information is produced, evaluated and disseminated. The evolution of organizational relationships and development of new forms such as think-tanks and contract research firms. The influence of science policy on science communication.

**LBSB 746 Analysis of Client Groups: Young Adults 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Meets Tuesday and Thursday evenings; plus Saturday, July 15, 9:30am-4:00pm.

0101 TuTh 5:30pm-7:00pm Bldg. HBK, Room 4113 Liesner, J  
 Special characteristics of youth and resultant implications for the interpretation of information, materials and services in all types of libraries and information settings.

**LBSB 751 Literature and Research in the Humanities 3 credits; Grading Method: REG/AUD**  
 Permission of department required.

0101 MTuTh 2:00pm-4:00pm Bldg. HBK, Room 0105 Aversa, E  
 Prerequisite: LBSB 651 or permission of both department and instructor. Analysis of information structure, research methods, bibliographic organization and reference services in the humanities, including religion, philosophy, performing arts, visual arts, and language and literature.

**LBSB 753 Literature and Research in the Social Sciences 3 credits; Grading Method: REG/AUD**  
 Permission of department required.

0101 MTuThF 8:30am-10:30am Bldg. HBK, Room 0103 White, M  
 Prerequisite: LBSB 651 or permission of both department and instructor. Factors affecting the generation and use of social science information including the characteristics of the social sciences and their methodology, the structure of literature, and control of diverse forms of social science information.

**LBSB 786 Business Information Services 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Meets daily; Monday June 5 through Friday June 9, and Monday June 19 through Friday June 30, plus special exercise.

0101 Meets JUN 5 to JUN 30 Bldg. HBK, Room 4113 Wasserman, P  
 MTuWThF 10:00am-1:00pm Bldg. HBK, Room 4113 Wasserman, P  
 Survey and analysis of information sources in business, finance, and economics with emphasis upon use in problem solving.

**LBSB 781 Prerequisite of Nonbook Materials 3 credits; Grading Method: REG/AUD**  
 Permission of department required. Will meet at 11:30am-2pm; June 26-July 14.

0101 MTuTh 11:00am-1:00pm Bldg. HBK, Room 0103 White, M  
 Examination of nonbook materials such as audiorecords, motion pictures, maps, videotapes, graphics-readable data files, and realia. Technical services applicable to nonbook materials.

**LBSB 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 Permission of department required.

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**LINGUISTICS (ARTS AND HUMANITIES)**

**LING 200 Introductory Linguistics 3 credits; Grading Method: REG/P-F/AUD**  
 Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement. Basis for further work in Linguistics.

0101 MTuWThF 9:00am-10:00am Bldg. ZOP, Room 1234 Munn, A  
 Ways of studying human language; basic concepts of modern linguistic analysis (sound systems, word formation, syntax, meaning). The nature of human language; the social aspects of language; language change; dialects; writing systems; language universals, etc. Credit will not be given for both LING 100 and LING 200. Not open for credit to students who have credit in ENGL 280, ANTH 371, or HESP 120.



**LING cont.**

LING 440	Grammars and Cognition 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Advanced Studies Development of Knowledge requirement.		
0101	MTuWThF 9:00am-11:20am	Bldg. HBK, Room 1108	Correll, P
	Prerequisite: LING 240. Relationship between the structure, development and functioning of grammars and the structure, development and functioning of other mental systems. Interpretations of experimental and observational work on children's language, aphasia, speech production and comprehension.		
LING 499	Directed Studies in Linguistics 3 credits; Grading Method: REG-P-F-FAUD		
	Permission of department required.		
0201	Time Arranged	Room Arranged	Horsten, N
LING 698	Directed Study 3 credits; Grading Method: REG		
	Permission of department required.		
0201	Time Arranged	Room Arranged	Staff
LING 799	Master's Thesis Research: Master's Thesis 1-6 credits; Grading Method: REG		
	Permission of department required.		
0201	Time Arranged	Room Arranged	Staff
LING 889	Directed Research 1-8 credits; Grading Method: REG		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
LING 895	Doctoral Research Paper 1-6 credits; Grading Method: REG		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
LING 899	Doctoral Dissertation Research 1-8 credits; Grading Method: REG		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**MAPL**

**APPLIED MATHEMATICS (COMP, MATH, AND PHYS CI)**

MAPL 460	Computational Methods 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0201	MTuWThF 8:00am-9:20am	Bldg. CLB, Room 0111	Staff
	Prerequisites: MATH 240; and MATH 241; and CMSC 110 or CMSC 113. Also offered as CMSC 460. Basic computational methods for interpolation, least squares, approximation, numerical quadrature, numerical solution of polynomial and transcendental equations, systems of linear equations and initial value problems for ordinary differential equations. Emphasis is on methods and their computational properties rather than their analysis aspects. Intended primarily for students in the physical and engineering sciences. Credit will not be granted for both CMSC-MAPL 460 and CMSC-MAPL 466.		
MAPL 799	Master's Thesis Research 1-6 credits; Grading Method: REG		
	Permission of department required.		
0201	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
MAPL 899	Doctoral Dissertation Research 1-8 credits; Grading Method: REG		
	Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**MATH**

**MATHEMATICS (COMP, MATH, AND PHYS CI)**

For those students experiencing math anxiety or who feel deficient in math study skills, refer to the special programs section, SUMM 003.

MATH 110	Elementary Mathematical Models 3 credits; Grading Method: REG-P-FAUD		
	Permission of department required. MATH 110 is not open to students in the Engineering and Computer, Mathematical, and Physical Sciences Colleges.		
0101	MTuWThF 8:00am-9:20am	Bldg. MTH, Room B0421	Staff
0102	MTuWThF 9:30am-10:50am	Bldg. MTH, Room B0421	Staff
0103	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room B0421	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. MTH, Room B0421	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. MTH, Room B0421	Staff
0203	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room B0421	Staff
	Prerequisite: permission of department based on satisfactory score on the mathematics placement exam, or MATH 101. Elementary introduction to models useful in the biological, management, and social sciences. Matrices, systems of linear equations, and linear inequalities in two or three variables are used to solve simple but representative problems in linear programming, stochastic processes, game theory, and the mathematics of mortgages and annuities.		
MATH 111	Introduction to Probability 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement. MATH 111 is not open to students in the Engineering and Computer, Mathematical, and Physical Sciences Colleges.		
0102	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0307	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0307	Staff
	Prerequisite: permission of department based on satisfactory score on the mathematics placement exam, or MATH 110, or MATH 115. Logic, Boolean algebra, counting, probability, numerical variables, expectation applications of the normal probability distribution. Credit will not be granted for both MATH 111 and STAT 100. (Not open to students majoring in mathematics, engineering or the physical sciences).		
MATH 115	Precalculus 3 credits; Grading Method: REG-P-FAUD		
	Permission of department required.		
0101	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0103	Staff
0103	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0103	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0103	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0103	Staff
	Prerequisite: permission of department based on satisfactory score on the mathematics placement exam or MATH 002. Preparation for MATH 220 or MATH 149. Elementary functions and graphs: polynomials, rational functions, exponential and logarithmic functions, trigonometric functions. Algebraic techniques preparatory for calculus.		
MATH 140	Calculus I 4 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
	Permission of department required.		
0101	Meets JUN 5 to JUL 27		
	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0306	Staff
	Meets JUN 5 to JUL 27		
	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0306	Staff
0103	Meets JUN 5 to JUL 27		
	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0306	Staff
	Prerequisite: permission of department based on a 12 year of college preparatory mathematics (including trigonometry) and a satisfactory score on the mathematics placement exam or MATH 115. Introduction to calculus, including functions, limits, continuity, derivatives and applications of the derivative, sketching of graphs of functions, definite and indefinite integrals, and calculation of area. The course is especially recommended for science and mathematics majors. Credit will not be granted for both MATH 140 and MATH 220.		

**MATH cont.**

MATH 141	Calculus II 4 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0101	Meets JUN 5 to JUL 27		
	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0303	Staff
0102	Meets JUN 5 to JUL 27		
	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0303	Staff
0103	Meets JUN 5 to JUL 27		
	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0303	Staff
	Prerequisite: MATH 140 or equivalent. Continuation of MATH 140, including techniques of integration, improper integrals, applications of integration (such as volumes, work, length, moments), inverse functions, exponential and logarithmic functions, sequences and series. Credit will be given for only one course, MATH 141 or MATH 221.		
MATH 210	Elements of Mathematics 4 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement. Open only to elementary education majors.		
0101	Meets JUN 5 to JUL 27		
	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0407	Staff
	Prerequisite: one year of college preparatory algebra. Required for majors in elementary education, and open only to students in this field. Topics on algebra and number theory, designed to provide insight into arithmetic: inductive proof, the natural number system based on the Peano axioms, mathematical systems, groups; fields; the system of integers; the system of rational numbers, congruence, divisibility, systems of numeration.		
MATH 211	Elements of Geometry 4 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement. Open only to elementary education majors.		
0101	Meets JUN 5 to JUL 27		
	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0405	Staff
	Prerequisite: MATH 210 or equivalent. Structure of mathematics systems, algebra of sets, geometrical structures, logic, measurement, congruence, similarity, graphs in the plane, geometry on the sphere.		
MATH 220	Elementary Mathematics I 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement		
0101	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0409	Staff
0102	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0409	Staff
0103	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0409	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0409	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0409	Staff
0203	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0409	Staff
	Prerequisite: permission of department based on satisfactory performance on the mathematics placement exam, or MATH 115. Basic ideas of differential and integral calculus, with emphasis on elementary techniques of differentiation and applications. Credit will not be granted for both MATH 140 and MATH 220. (Not open to students majoring in mathematics or the physical sciences).		
MATH 221	Elementary Calculus II 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0101	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0304	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0106	Staff
	Prerequisite: MATH 220, or MATH 140, or equivalent. Differential and integral calculus, with emphasis on elementary techniques of integration and applications. Not open to students majoring in mathematics, engineering or the physical sciences. Credit will be given for only one course, MATH 141 or MATH 221.		
MATH 240	Introduction to Linear Algebra 4 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0103	Meets JUN 5 to JUL 27		
	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0403	Staff
	Prerequisite: MATH 141 or equivalent. Basic vector algebra, vector spaces, applications to line and plane geometry, linear equations and matrices, similar matrices, linear transformations, eigenvalues, determinants and quadratic forms. Credit will be given for only one course, MATH 240 or MATH 400 or MATH 461.		
MATH 241	Calculus III 4 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0102	Meets JUN 5 to JUL 27		
	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0403	Staff
0103	Meets JUN 5 to JUL 27		
	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0307	Staff
	Prerequisite: MATH 141 and any one of the following: MATH 240, or ENES 110, or PHYS 191. Introduction to multivariable calculus, including vectors and vector-valued functions, partial derivatives and applications, partial derivatives (such as tangent planes and Lagrange multipliers), multiple integrals, volume, surface area, and the classical theorems of Green, Stokes and Gauss.		
MATH 246	Differential Equations For Scientists and Engineers 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0101	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0106	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0304	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0304	Staff
	Prerequisite: MATH 141 or equivalent. An introduction to the basic methods of solving ordinary differential equations. Equations of first and second order, linear differential equations, Laplace transforms, numerical methods, and the qualitative theory of differential equations.		
MATH 401	Applications of Linear Algebra 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0103	Meets JUN 5 to JUL 27		
	MTuWThF 11:00am-12:20pm	Bldg. MTH, Room 0407	Staff
	Prerequisite: MATH 141 or MATH 240, or equivalent. Various applications of linear algebra theory of finite groups, linear programming, matrix methods as applied to finite Markov chains, random walk, incidence matrices, graphs and directed graphs, networks, transportation problems.		
MATH 402	Algebraic Structures 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Distribution Studies (B)Natural Sciences and Mathematics requirement.		
0101	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0106	Staff
	Prerequisite: MATH 240 or equivalent. For students having only limited experience with rigorous mathematical proofs, and parallel. MATH 403. Students planning graduate work in mathematics should take MATH 403. Groups, rings, integral domains and fields, detailed study of several groups, properties of integers and polynomials. Emphasis is on the origins of the mathematical ideas studied and the logical structure of the subject. (Not open to mathematics graduate students. Credit will be given for only one of the courses, MATH 402 or MATH 403.)		
MATH 406	Introduction to Number Theory 3 credits; Grading Method: REG-P-FAUD		
	Meets USP Advanced Studies Development of Knowledge requirement.		
0102	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0302	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 1313	Staff
	Prerequisite: MATH 141, or MATH 221 or equivalent. Introduction to Rational numbers, divisibility, prime numbers, modular arithmetic and linear forms, unique factorization theorem, Euler's function, cyclotomic polynomial, congruences and quadratic residues, Legendre's and Jacobi's symbol, reciprocity law of quadratic residues, introductory explanation of the method of algebraic number theory.		
MATH 410	Advanced Calculus I 3 credits; Grading Method: REG-P-FAUD		
	Meets 8 weeks 4 days per week		
0102	Meets JUN 5 to JUL 27		
	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0201	Staff
	Prerequisite: MATH 141 and MATH 241. First semester of a four course. Subjects covered during the year are sequences and series of numbers, continuity and differentiability of real valued functions of one variable, the Riemann integral, sequences of functions, and power series. Functions of several variables including partial derivatives, multiple integrals, line and surface integrals. The implicit function theorem.		

**MATH cont.**

<b>MATH 430</b>	<b>Euclidean and Non-Euclidean Geometries 3 credits; Grading Method: REG/P-FAUD</b>			
	Meets USP Advanced Studies Development of Knowledge requirement.			
<b>0202</b>	<b>MTUWThF 9:30am-10:50am</b>	Bldg. MTH, Room 1313	Staff	
	Prerequisites: MATH 140, MATH 141 or equivalent. Hilbert's axioms for Euclidean geometry. Neutral geometry: the consistency of the hyperbolic parallel postulate and the inconsistency of the elliptic parallel postulate with neutral geometry. Models of hyperbolic geometry. Existence and properties of isometries.			
<b>MATH 444</b>	<b>Elementary Logic and Algorithms 3 credits; Grading Method: REG/P-FAUD</b>			
<b>0102</b>	<b>MTUWThF 9:30am-10:50am</b>	Bldg. MTH, Room 1313	Staff	
<b>0103</b>	<b>MTUWThF 11:00am-12:20pm</b>	Bldg. MTH, Room 1313	Staff	
<b>0202</b>	<b>MTUWThF 9:30am-10:50am</b>	Bldg. MTH, Room 0407	Staff	
	Prerequisite: MATH 241 or consent of instructor. An elementary development of propositional logic, predicate logic, set algebra, and Boolean algebra, with a discussion of Markov algorithms, Turing machines and recursive functions. Topics include post productions, word problems, and formal languages. (Also listed as CMS 450).			
<b>MATH 461</b>	<b>Linear Algebra For Scientists and Engineers 3 credits; Grading Method: REG/P-FAUD</b>			
<b>0103</b>	<b>MTUWThF 11:00am-12:20pm</b>	Bldg. MTH, Room 0405	Staff	
<b>0201</b>	<b>MTUWThF 8:00am-9:20am</b>	Bldg. MTH, Room 0101	Staff	
	Prerequisites: MATH 141 and one MATH/STAT course for which MATH 141 is a prerequisite. Basic concepts of linear algebra. This course is similar to MATH 240, but with more extensive coverage of the topics needed in applied linear algebra: change of basis, complex eigenvalues, diagonalization, the Jordan canonical form. Credit will be given for only one of MATH 240, MATH 400 or MATH 461.			
<b>MATH 462</b>	<b>Partial Differential Equations For Scientists and Engineers 3 credits; Grading Method: REG/P-FAUD</b>			
<b>0103</b>	<b>MTUWThF 11:00am-12:20pm</b>	Bldg. MTH, Room 0201	Staff	
<b>0201</b>	<b>MTUWThF 8:00am-9:20am</b>	Bldg. MTH, Room 0405	Staff	
	Prerequisites: MATH 241 and MATH 246. Linear spaces and operators, orthogonality, Sturm-Liouville problems and eigenfunction expansions for ordinary differential equations, introduction to partial differential equations, including the heat equation, wave equation and Laplace's equation, boundary value problems, initial value problems, and initial-boundary value problems. (Credit will be given for only one of the courses MATH 462 or MATH 415.)			
<b>MATH 463</b>	<b>Complex Variables For Scientists and Engineers 3 credits; Grading Method: REG/P-FAUD</b>			
<b>0102</b>	<b>MTUWThF 9:30am-10:50am</b>	Bldg. MTH, Room 0105	Staff	
<b>0202</b>	<b>MTUWThF 9:30am-10:50am</b>	Bldg. MTH, Room 0101	Staff	
<b>0203</b>	<b>MTUWThF 11:00am-12:20pm</b>	Bldg. MTH, Room 0407	Staff	
	Prerequisite: MATH 241 or equivalent. The algebra of complex numbers, analytic functions, mapping properties of the elementary functions. Cauchy integral formula. Theory of residues and application to evaluation of integrals. Conformal mapping.			
<b>MATH 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MATH 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	

**MEE5**

**MARINE-ESTUARINE-ENVIRONMENTAL SCIENCES (LIFE SCIENCES)**

**MEE5 498M Topics in Marine-Estuarine-Environmental Sciences: Field and Laboratory Techniques in Marine Science Ed: 1 credit; Grading Method: REG/P-FAUD**

Course given at Chesapeake Biological Laboratory.

<b>0201</b>	Meets JUL 31 to AUG 4		Staff	
	MTUWThF 8:30am-4:30pm			
<b>MEE5 899</b>	<b>Special Problems in Marine-Estuarine-Environmental Sciences 1-3 credits; Grading Method: REG/P-FAUD</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MEE5 799</b>	<b>Masters Thesis Research 1-6 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MEE5 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	

**METO**

**METEOROLOGY (COMP. MATH, AND PHYS SCI)**

**METO 499 Special Problems in Atmospheric Science 1-3 credits; Grading Method: REG/P-FAUD**

<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>METO 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>METO 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	

**MICB**

**MICROBIOLOGY (LIFE SCIENCES)**

**MICB 200 General Microbiology 4 credits; Grading Method: REG/P-FAUD**

Meets USP Distributive Studies (B)Natural Sciences and Mathematics requirement.

<b>0101</b>	<b>MTUWThF 8:00am-9:00am</b>	Bldg. MCB, Room 1201 (LAB)	Hetrick, F	
	<b>MTUWThF 9:00am-11:00am</b>	Bldg. MCB, Room 1201 (LAB)	Hetrick, F	
<b>0102</b>	<b>MTUWThF 8:00am-9:00am</b>	Bldg. MCB, Room 1207	Hetrick, F	
	<b>MTUWThF 9:00am-11:00am</b>	Bldg. MCB, Room 1205 (LAB)	Hetrick, F	
<b>0103</b>	<b>MTUWThF 8:00am-9:00am</b>	Bldg. MCB, Room 1207	Hetrick, F	
	<b>MTUWThF 9:00am-11:00am</b>	Bldg. MCB, Room 1206 (LAB)	Hetrick, F	
<b>0104</b>	<b>MTUWThF 8:00am-9:00am</b>	Bldg. MCB, Room 1207	Hetrick, F	
	<b>MTUWThF 9:00am-11:00am</b>	Bldg. MCB, Room 1103A (LAB)	Hetrick, F	

Prerequisite: two semesters of chemistry. The biology of microorganisms, with special reference to the bacteria. Fundamental principles of microbiology as revealed through an examination of the structure, physiology, genetics, and ecology of microorganisms.

**MICB cont.**

<b>MICB 379</b>	<b>Honors Research 2-3 credits; Grading Method: REG/P-FAUD</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MICB 388</b>	<b>Special Topics in Microbiology 1-4 credits; Grading Method: REG/P-FAUD</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MICB 388R</b>	<b>Special Topics in Microbiology: Research Projects 1-4 credits; Grading Method: REG/P-FAUD</b>			
<b>0101</b>	Time Arranged	Room Arranged	MacQuillan, A	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MICB 399</b>	<b>Microbiological Problems 3 credits; Grading Method: REG/P-FAUD</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MICB 450</b>	<b>Immunology 4 credits; Grading Method: REG</b>			
<b>0101</b>	<b>MTUWThF 9:30am-10:30am</b>	Bldg. MCB, Room 1207	Roberson, B	
	<b>MTUWThF 10:30am-11:30am</b>	Bldg. MCB, Room 1135 (LAB)		
	Prerequisite: MICB 440. Principles of immunity; hypersensitivity. Fundamental techniques of immunology. Credit not given for both ZOO 455 and MICB 450.			
<b>MICB 688</b>	<b>Special Topics 1-4 credits; Grading Method: REG/AUD</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MICB 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	
<b>MICB 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
<b>0101</b>	Time Arranged	Room Arranged	Staff	
<b>0201</b>	Time Arranged	Room Arranged	Staff	

**MUED**

**(EDUCATION)**

**MUSIC EDUCATION**

**MUED 498A Workshops, Clinics, Institutes: Creative Use of Recorders in Elementary and Middle School 2 credits; Grading Method: REG**

Permission of department required.

<b>0201</b>	Meets JUL 17 to JUL 28	Bldg. TWS, Room 3238	Gratto, S
<b>MUED 498B Workshops, Clinics, Institutes: Teaching Strategies for Secondary Performance and Humanity Classes 2 credits; Grading Method: REG</b>			
<b>0201</b>	Meets JUL 17 to JUL 28	Bldg. TWS, Room 3238	Folstrom, R
<b>MUED 498C Workshops, Clinics, Institutes: Innovation in Music Education: Techniques, Methods and Technology 2 credits; Grading Method: REG</b>			
<b>0101</b>	Meets JUL 3 to JUL 14	Bldg. TWS, Room 3132	Saunders, C
<b>MUED 698A Current Trends in Music Education: Creative Use of Recorders in Elementary and Middle School 2 credits; Grading Method: REG</b>			
<b>0201</b>	Meets JUL 17 to JUL 28	Bldg. TWS, Room 3238	Gratto, S
<b>MUED 698B Current Trends in Music Education: Teaching Strategies for Secondary Performance and Humanity Classes 2 credits; Grading Method: REG</b>			
<b>0201</b>	Meets JUL 17 to JUL 28	Bldg. TWS, Room 3238	Folstrom, R
<b>MUED 698C Current Trends in Music Education: Innovation in Music Ed: Techniques, Methods and Technology 2 credits; Grading Method: REG</b>			
<b>0101</b>	Meets JUL 3 to JUL 14	Bldg. TWS, Room 3132	Saunders, C

**MUSC**

**(ARTS AND HUMANITIES)**

**MUSC 100A Beginning Class Voice 2 credits; Grading Method: REG/AUD**

Open to non-music majors.

<b>0101</b>	<b>MTUWTh 9:30am-10:50am</b>	Bldg. TWS, Room 3228	Fleming, L
<b>0201</b>	<b>MTUWTh 9:30am-10:50am</b>	Bldg. TWS, Room 3228	Fleming, L
<b>MUSC 102B Beginning Class Piano 1 2 credits; Grading Method: REG</b>			
<b>0101</b>	<b>MTUWTh 12:30pm-1:50pm</b>	Bldg. TWS, Room 3218	Staff
<b>0201</b>	<b>MTUWTh 12:30pm-1:50pm</b>	Bldg. TWS, Room 3218	Staff
<b>MUSC 130</b>	<b>Survey of Music Literature 3 credits; Grading Method: REG/P-FAUD</b>		
	Meets USP Distributive Studies (C) Literature and the Arts requirement.		
<b>0101</b>	<b>MTUWThF 11:00am-12:20pm</b>	Bldg. TWS, Room 2102	Troth, E
	Open to all students except music and music education majors. MUSC 130 and 131 may not both be taken for credit. A study of the principles upon which music is based, and an introduction to the musical repertoires performed in America today.		
<b>MUSC 140</b>	<b>Music Fundamentals I 3 credits; Grading Method: REG/P-FAUD</b>		
	Meets USP Distributive Studies (C) Literature and the Arts requirement.		
<b>0101</b>	<b>MTUWThF 2:00pm-3:20pm</b>	Bldg. TWS, Room 2123	Staff
<b>0201</b>	<b>MTUWThF 11:00am-12:20pm</b>	Bldg. TWS, Room 2123	Staff
	An introductory theory course for the non-music major. Notation, scales, intervals, triads, rhythm, form, and basic aural skills.		
<b>MUSC 155</b>	<b>Fundamentals For the Classroom Teacher 3 credits; Grading Method: REG/P-FAUD</b>		
	Open to pre-early childhood and pre-elementary students.		
<b>0101</b>	<b>MTUWThF 9:30am-10:50am</b>	Bldg. TWS, Room 2135	Saunders, C
	Open to students majoring in elementary education or childhood education; other students take MUSC 150. MUSC 150 and 155 may not both be counted for credit. The fundamentals of music theory and practice, related to the needs of the classroom and kindergarten teacher, and organized in accord with the six-area concept of musical learning.		
<b>MUSC 329E</b>	<b>Ensemble: University Chorus 1 credit; Grading Method: REG/AUD</b>		
	Permission of department required.		
<b>0101</b>	<b>Tu 7:00pm-10:00pm</b>	Bldg. TWS, Room 2102	Trever, P
<b>MUSC 448</b>	<b>Special Topics in Music 2-6 credits; Grading Method: REG/P-FAUD</b>		
	Permission of department required.		
<b>0101</b>	Time Arranged	Room Arranged	Staff
<b>0201</b>	Time Arranged	Room Arranged	Staff
<b>MUSC 448C</b>	<b>Special Topics in Music: Flute Masterclass 1988 2 credits; Grading Method: REG/AUD</b>		
<b>0201</b>	Meets JUL 7 to JUL 9	Bldg. TWS, Room 1125	Montgomery, W
	MTUWThFSaSu 11:00am-10:00p		

**MUSC cont.**

<b>MUSC 499 Independent Studies 2-3 credits; Grading Method: REG-P/FAUD</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>MUSC 699 Special Topics in Musc 2-6 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>MUSC 699C Special Topics in Musc: Flute Masterclass 1988 2 credits; Grading Method: REG/AUD</b>			
0201	Meets Jul. 7 to Jul. 16	Bldg. TWS, Room 1125	Montgomery, W
<b>MUSC 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>MUSC 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**NUSC (AGRICULTURE)**

<b>NUSC 670 Intermediary Metabolism in Nutrition 3 credits; Grading Method: REG/AUD</b>			
0101	MTuWThF 9:30am-10:50am	Bldg. MMH, Room 1316	Ahrens, R
Prerequisites: NUSC 402 or NUTR 300, CHEM 461 or 462. The major routes of carbohydrate, fat and protein metabolism with particular emphasis on metabolic shifts and their detection and significance in nutrition.			
<b>NUSC 699 Problems in Nutrition 1-4 credits; Grading Method: REG/AUD</b>			
Contact department for instructions.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>NUSC 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>NUSC 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**NUTR (HUMAN ECOLOGY)**

<b>NUTR 100 Elements of Nutrition 3 credits; Grading Method: REG-P/FAUD</b>			
Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.			
0101	MTuWThF 9:30am-10:50am	Bldg. MMH, Room 1400	Staff
Credit will be granted for only one of the following: NUTR 100 or NUTR 200. Fundamentals of human nutrition. Nutrient requirements related to changing individual and family needs.			
<b>NUTR 200 Nutrition for Health Services 3 credits; Grading Method: REG-P/FAUD</b>			
0101	MWF 9:00am-9:20am	Bldg. MMH, Room 3418	Staff
	TuTh 9:00am-11:00am	Bldg. MMH, Room 3418 (LAG)	
Pre- or co-requisite: CHEM 104, and ZOO/201 or ZOO/202. Credit will be granted for only one of the following: NUTR 100 or NUTR 200. Nutrition related to maintenance of normal health and prevention of disease; nutritional requirements for individuals in different stages of development; current concerns in nutrition for the professional in health services.			
<b>NUTR 670 Intermediary Metabolism in Nutrition 3 credits; Grading Method: REG/AUD</b>			
0101	MTuWThF 9:30am-10:50am	Bldg. MMH, Room 1316	Ahrens, R
Prerequisites: BCHM 461; and BCHM 462; or equivalent. The major routes of carbohydrate, fat, and protein metabolism with particular emphasis on metabolic shifts and their detection and significance in nutrition.			
<b>NUTR 678A Special Topics in Nutrition: Independent Study 1-6 credits; Grading Method: REG/AUD</b>			
Permission of instructor required.			
0101	Time Arranged	Room Arranged	Staff
<b>NUTR 799 Non-Thesis Research 1-3 credits; Grading Method: S-F</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>NUTR 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>NUTR 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**PCOM (ARTS AND HUMANITIES)**

<b>PCOM 688 Doctoral Practicum in Public Communication 3-9 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PCOM 689 Doctoral Tutorial in Public Communication 3-8 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PCOM 699 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**PHED (PHYS ED, RECR, AND HEALTH)**

<b>PHED 137N Physical Education Activities: Coed: Golf (Beginning)</b>			
1 credit; Grading Method: REG-P-F			
0101	MTuWTh 9:30am-10:50am	Bldg. GLF, Room 1102	Staff
0201	MTuWTh 9:30am-10:50am	Bldg. PRH, Room 0305	Tyler, R
<b>PHED 146N Physical Education Activities: Coed: Racquet Ball 1 credit; Grading Method: REG-P-F</b>			
0101	MTuWTh 1:00pm-2:20pm	Bldg. PRH, Room 0222	Staff
0201	MTuWTh 9:30am-10:50am	Bldg. PRH, Room 0222	Staff

**PHED cont.**

<b>PHED 154N Physical Education Activities: Coed: Beginning Swimming</b>			
1 credit; Grading Method: REG-P-F			
0101	MTuWTh 1:00pm-2:20pm	Bldg. COL, Room 1206	Staff
0201	MTuWTh 1:00pm-2:20pm	Bldg. COL, Room 1206	Staff
<b>PHED 155N Physical Education Activities: Coed: Tennis (Beginning)</b>			
1 credit; Grading Method: REG-P-F			
0101	MTuWTh 8:00am-9:20am	Bldg. PRH, Room 2240	Staff
0102	MTuWTh 9:30am-10:50am	Bldg. PRH, Room 2240	Staff
0103	MTuWTh 11:00am-12:20pm	Bldg. PRH, Room 2240	Staff
0201	MTuWTh 8:00am-9:20am	Bldg. PRH, Room 2240	Staff
0202	MTuWTh 11:00am-12:20pm	Bldg. PRH, Room 2240	Staff
<b>PHED 155O Physical Education Activities: Coed: Tennis (Intermediate)</b>			
1 credit; Grading Method: REG-P-F			
0101	MTuWTh 8:00am-9:20am	Bldg. PRH, Room 2101	Vander Velden, L
0102	MTuWTh 9:30am-10:50am	Bldg. PRH, Room 2101	Vander Velden, L
0103	MTuWTh 11:00am-12:20pm	Bldg. PRH, Room 2101	Vander Velden, L
0201	MTuWTh 8:00am-9:20am	Bldg. PRH, Room 2101	Staff
0202	MTuWTh 11:00am-12:20pm	Bldg. PRH, Room 2101	Staff
<b>PHED 157N Physical Education Activities: Coed: Weight Training (Beginning)</b>			
1 credit; Grading Method: REG-P-F			
0101	MTuWTh 9:30am-10:50am	Bldg. PRH, Room 0103	Staff
0201	MTuWTh 8:00am-9:20am	Bldg. PRH, Room 0103	Staff
<b>PHED 157O Physical Education Activities: Coed: Weight Training (Intermediate)</b>			
1 credit; Grading Method: REG-P-F			
0101	MTuWTh 9:30am-10:50am	Bldg. PRH, Room 0103	Staff
0201	MTuWTh 8:00am-9:20am	Bldg. PRH, Room 0103	Staff
<b>PHED 289 Topical Investigations 1-3 credits; Grading Method: REG</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHED 293 History of Sport in America 3 credits; Grading Method: REG-P/FAUD</b>			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	TuTh 1:00pm-4:00pm	Bldg. PRH, Room 1302	Struna, N
The growth and development of sport in America. The transformation of sport within the perspective of American history, including class sport, professionalization, amateurism, and international involvement.			
<b>PHED 300 Kinesiology 4 credits; Grading Method: REG-P/FAUD</b>			
0201	MTuWThF 11:00am-1:00pm	Bldg. PRH, Room 2132	Kelley, D
Prerequisites: ZOO/ 201; and ZOO/ 202. The study of human movement and the physical and physiological principles upon which it depends. Body mechanics, posture, motor efficiency, sports, the performance of a typical individual and the influence of growth and development upon motor performance.			
<b>PHED 340 Theory of Coaching Athletics 2 credits; Grading Method: REG-P/FAUD</b>			
0101	MW 7:00pm-9:00pm	Bldg. PRH, Room 1301	Orum, B
General theory and practice of coaching selected competitive sports found in secondary schools and community recreation programs.			
<b>PHED 350 The Psychology of Sports 3 credits; Grading Method: REG-P/FAUD</b>			
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.			
0101	TuTh 4:00pm-7:00pm	Bldg. PRH, Room 1303	Stael, D
0201	TuTh 4:00pm-7:00pm	Bldg. PRH, Room 1301	Hatfield, B
An exploration of the personality factors, including, but not limited to motivation, aggression and anxiety, as they affect sports participation and motor skill performance.			
<b>PHED 360 Physiology of Exercise 3 credits; Grading Method: REG-P/FAUD</b>			
Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.			
0101	MTuWThF 9:30am-10:50am	Bldg. PRH, Room 2132	Vaccaro, P
Prerequisites: ZOO/ 201; and ZOO/ 202; and permission of department. A study of the physiology of exercise, including concepts of work, muscular contraction, energy transformation, metabolism, oxygen debt, and nutrition and athletic performance. Emphasis on cardiovascular and respiratory function in relation to physical activity and training.			
<b>PHED 361 Weight Control Through Diet and Exercise 3 credits; Grading Method: REG-P/FAUD</b>			
0201	MTuWThF 11:00am-12:20pm	Bldg. PRH, Room 1303	Staff
Lecture and laboratory. The basic principles of weight control are given and the students participate in diet and exercise programs.			
<b>PHED 362 Philosophy of Sport 3 credits; Grading Method: REG-P/FAUD</b>			
Meets USP Advanced Studies Development of knowledge requirement.			
0101	MTuWThF 8:00am-9:20am	Bldg. PRH, Room 1303	Hull, J
Form and content of the philosophy of sport. The basis of knowledge in and about sport, the structure and theories of the discipline, the ontological and moral implications and dilemmas involving sport, and the interactions between philosophy and the scientific and humanistic aspects of sport.			
<b>PHED 385 Motor Learning and Skilled Performances 3 credits; Grading Method: REG-P/FAUD</b>			
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement			
0201	MW 4:00pm-7:00pm	Bldg. PRH, Room 1301	Tyler, R
A study of the research dealing with motor learning and motor performance. Scientific methodology, individual differences, specificity, prospective control of movement, motivation, timing, transfer, and retention.			
<b>PHED 389 Topical Investigations 1-3 credits; Grading Method: REG</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHED 497 Independent Studies Seminar 3 credits; Grading Method: REG</b>			
0101	TuTh 4:00pm-7:00pm	Bldg. PRH, Room 0307	Staff
Discussions of contemporary issues vital to the discipline, critiques of research in the student's area/areas of special interest, completion of a major project where the student will be asked to demonstrate the ability to carry out investigative processes in problem solving and critical writing under faculty direction.			
<b>PHED 498A Special Topics in Physical Education: Stress Testing and Adult Fitness</b>			
3 credits; Grading Method: REG-P-F			
0101	MW 1:00pm-4:00pm	Bldg. PRH, Room 2132	Vaccaro, P
<b>PHED 689 Special Problems in Physical Education 1-3 credits; Grading Method: REG</b>			
Permission of department required			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHED 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
Permission of department required			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHED 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
Permission of department required.			
0101	Time Arranged	Room Arranged	Staff

## PHIL (ARTS AND HUMANITIES)

### PHILOSOPHY

<b>PHIL 100</b>	<b>Introduction to Philosophy 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (A) Cultural and Historical requirement.		
0101	MTuWThF 11:00am-12:20pm	Bldg. SKN, Room 1113	Odeli, S
0201	MTuWThF 12:30pm-1:50pm	Bldg. SKN, Room 1113	Umbaugh, B
An introduction to the literature, problems, and methods of philosophy either through a study of some of the main figures in philosophy thought or through an examination of some of the central and recurring problems of philosophy.			
<b>PHIL 140</b>	<b>Contemporary Moral Issues 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0101	MTuWThF 12:30pm-1:50pm	Bldg. SKN, Room 1113	Odeli, S
The uses of philosophical analysis in thinking clearly about such widely debated moral issues as abortion, euthanasia, homosexuality, pornography, reverse discrimination, the death penalty, business ethics, sexual equality, and economic justice.			
<b>PHIL 170</b>	<b>Introduction to Logic 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	MTuWThF 12:30pm-1:50pm	Bldg. SKN, Room 0124	Stairs, A
A general introduction to the discipline of logic. Traditional and modern deductive techniques; informal fallacies.			
<b>PHIL 209A</b>	<b>Philosophical Issues: What Is Cognitive Science? 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MTuWThF 2:00pm-3:20pm	Bldg. SKN, Room 1113	Edwards, D
A critical examination of the mind's new science, integrating psychology, philosophy, linguistics, neuroscience, and computer science. What are the connecting links, can each use results obtained in the others; is there a single, common subject matter.			
<b>PHIL 209D</b>	<b>Philosophical Issue: Indian Philosophy and Religion 3 credits; Grading Method: REG/P-F/AUD</b>		
0201	MTuWThF 2:00pm-3:20pm	Bldg. SKN, Room 1113	Sengupta, P
The central text of Hindu religious faith, the Bhagavadgita, a major source for philosophical speculation in the Indian tradition. A comparison of these religious systems with contemporary Indian humanism.			
<b>PHIL 236</b>	<b>Philosophy of Religion 3 credits; Grading Method: REG/P-F/AUD</b>		
0101	MW 3:30pm-6:50pm	Bldg. SKN, Room 1113	Martin, R
A philosophical study of some of the main problems of religious thought: the nature of religious experience, the justification of religious belief, the conflicting claims of religion and science, and the relation between religion and morality.			
<b>PHIL 328B</b>	<b>Studies in the History of Philosophy: Marxist Philosophy 9 credits; Grading Method: REG/P-F/AUD</b> Meets USP Advanced Studies Development of Knowledge requirement.		
0101	TuTh 3:30pm-6:50pm	Bldg. SKN, Room 1113	Manukian, E
Marx and Engels, the intellectual context out of which their thought grew, and the 20th century modifications of their theories by their successors responding to unforeseen developments in capitalist and communist societies.			
<b>PHIL 386</b>	<b>Field Work 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHIL 387</b>	<b>Field Work Analysis 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHIL 447</b>	<b>Philosophy of Law 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Advanced Studies Development of Knowledge requirement.		
0101	MTuWThF 9:30am-10:50am	Bldg. JRM, Room 1105	Johnson, C
0201	MTuWThF 9:30am-10:50am	Bldg. ASY, Room 3211	Johnson, C
Prerequisite: one course in philosophy. Examination of fundamental concepts related to law, e.g., legal system, law and morality, justice, legal reasoning, responsibility.			
<b>PHIL 498C</b>	<b>Topical Investigations 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
<b>PHIL 498D</b>	<b>Topical Investigations 1-3 credits; Grading Method: REG/P-F/AUD</b>		
0201	Time Arranged	Room Arranged	Staff
<b>PHIL 688C</b>	<b>Selected Problems in Philosophy 1-3 credits; Grading Method: REG/AUD</b>		
0101	Time Arranged	Room Arranged	Staff
<b>PHIL 688D</b>	<b>Selected Problems in Philosophy 1-3 credits; Grading Method: REG/AUD</b>		
0201	Time Arranged	Room Arranged	Staff
<b>PHIL 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b> Contact department to make arrangements.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHIL 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b> Contact department to make arrangements.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

## PHYS (COMP, MATH, AND PHYS SCI)

### PHYSICS

<b>PHYS 121</b>	<b>Fundamentals of Physics I 4 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement. This course meets entire Summer Session I plus the first two weeks of Summer Session II.		
0101	Meets JUN 5 to JUL 28 MTuWThF 9:30am-10:50am MW 2:00pm-4:00pm MW 1:00pm-1:50pm	Bldg. PHY, Room 1410 Bldg. PHY, Room 3306 (LAB) Bldg. PHY, Room 4220 (DIS)	Restorff, K
0102	Meets JUN 5 to JUL 28 MTuWThF 9:30am-10:50am TuTh 2:00pm-4:00pm TuTh 1:00pm-1:50pm	Bldg. PHY, Room 1410 Bldg. PHY, Room 3306 (LAB) Bldg. PHY, Room 4220 (DIS)	Restorff, K
Prerequisite: previous course work in trigonometry or MATH 110 or MATH 115. The first part of a two-semester course in general physics treating the fields of mechanics, heat, sound, electricity, magnetism, optics, and modern physics. Together with PHYS 122, this generally satisfies the minimum requirements of medical and dental schools.			
<b>PHYS 122</b>	<b>Fundamentals of Physics II 4 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement. This course meets entire Summer Session I plus the first 2 weeks of Summer Session II.		
0101	Meets JUN 5 to JUL 28 MTuWThF 9:30am-10:50am MW 2:00pm-4:00pm MW 1:00pm-1:50pm	Bldg. PHY, Room 0405 Bldg. PHY, Room 3316 (LAB) Bldg. PHY, Room 4405 (DIS)	Rapport, M
0102	Meets JUN 5 to JUL 28 MTuWThF 9:30am-10:50am TuTh 2:00pm-4:00pm TuTh 1:00pm-1:50pm	Bldg. PHY, Room 0405 Bldg. PHY, Room 3316 (LAB) Bldg. PHY, Room 4405 (DIS)	Rapport, M
Prerequisite: PHYS 121 or equivalent. A continuation of PHYS 121. Which together with it, generally satisfies the minimum requirement of medical and dental schools.			

## PHYS cont.

<b>PHYS 161</b>	<b>General Physics: Mechanics and Particle Dynamics 9 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.		
0101	MTuWThF 9:30am-10:50am MW 11:00am-12:00pm	Bldg. PHY, Room 1412 Bldg. PHY, Room 0405 (DIS)	Fivel, D
0102	MTuWThF 9:30am-10:50am TuTh 11:00am-12:00pm	Bldg. PHY, Room 1412 Bldg. PHY, Room 0405 (DIS)	Fivel, D
0103	MTuWThF 9:30am-10:50am MW 11:00am-12:00pm	Bldg. PHY, Room 1412 Bldg. PHY, Room 4220 (DIS)	Fivel, D
First semester of a three-semester calculus based general physics course. Pre- or corequisite: MATH 141. Laws of motion, force, and energy; principles of mechanics, collisions, linear momentum, rotation, and gravitation. Credit will not be granted for PHYS 171 and PHYS 161 or PHYS 141 or former: PHYS 191.			
<b>PHYS 262</b>	<b>General Physics: Vibrations, Waves, Heat, Electricity and Magnetism 9 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement. PHYS 262A must be taken concurrently.		
0201	MTuWThF 9:30am-10:50am MW 11:00am-12:00pm	Bldg. PHY, Room 1412 Bldg. PHY, Room 4220 (DIS)	Staff
0202	MTuWThF 9:30am-10:50am TuTh 11:00am-12:00pm	Bldg. PHY, Room 1412 Bldg. PHY, Room 4220 (DIS)	Staff
0203	MTuWThF 9:30am-10:50am MW 11:00am-12:00pm	Bldg. PHY, Room 1412 Bldg. PHY, Room 1219 (DIS)	Staff
Second semester of a three-semester calculus based general physics course. Prerequisite: PHYS 161. Vibrations, waves, fluids, heat, kinetic theory, and thermodynamics; electrostatics, circuits, and magnetism. PHYS 262A is the lab for PHYS 262 and must be registered for at the same time. Credit will not be granted for PHYS 272 and PHYS 142 or former PHYS 192 or PHYS 262.			
<b>PHYS 262A</b>	<b>General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (Laboratory) No credit; Grading Method: NGI</b> PHYS 262 must be taken concurrently.		
0201	MW 1:00pm-3:00pm	Bldg. PHY, Room 3312 (LAB)	Staff
0202	TuTh 1:00pm-3:00pm	Bldg. PHY, Room 3312 (LAB)	Staff
0203	MW 3:00pm-5:00pm	Bldg. PHY, Room 3312 (LAB)	Staff
<b>PHYS 299</b>	<b>Special Problems in Physics 1-6 credits; Grading Method: REG/P-F/AUD</b> Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHYS 399</b>	<b>Special Problems in Physics 1-3 credits; Grading Method: REG/P-F/AUD</b> Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHYS 420</b>	<b>Principles of Modern Physics 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Advanced Studies Development of Knowledge requirement.		
0101	MTuWThF 1:00pm-2:20pm	Bldg. PHY, Room 1412	Fivel, D
Prerequisites: (PHYS 263 or PHYS 273 or PHYS 301); and MATH 241. A survey of atomic and other physical sciences. Credit will not be granted for both PHYS 420 and PHYS 421.			
<b>PHYS 429</b>	<b>Atomic and Nuclear Physics Laboratory 3 credits; Grading Method: REG/P-F/AUD</b> Permission of department required. This course meets entire Summer Session I plus the first two weeks of Summer Session II.		
0101	Meets JUN 5 to JUL 28 MTu 1:00pm-6:00pm	Bldg. PHY, Room 3333 (LAB)	Mathews, D
<b>PHYS 499</b>	<b>Special Problems in Physics 1-16 credits; Grading Method: REG/P-F/AUD</b> Permission of department required.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHYS 602</b>	<b>Statistical Physics 3 credits; Grading Method: REG/AUD</b>		
0101	MTuWThF 10:00am-11:20am	Bldg. PHY, Room 1221	Kim, Y
Prerequisite: PHYS 5410 or equivalent. Statistical mechanics, thermodynamics, kinetic theory. Credit will not be given for both PHYS 602 and PHYS 603.			
<b>PHYS 621</b>	<b>Graduate Laboratory 3 credits; Grading Method: REG/AUD</b> Permission of department required. The course meets entire Summer Session I plus the first four weeks of Summer Session II.		
0101	Meets JUN 5 to AUG 11 MTu 1:00pm-5:00pm	Bldg. PHY, Room 3333 (LAB)	Mathews, D
Design and performance of advanced experiments in modern and classical physics.			
<b>PHYS 624</b>	<b>Advanced Quantum Mechanics 3 credits; Grading Method: REG/AUD</b>		
0201	MTuWThF 9:30am-10:50am	Bldg. PHY, Room 4220	Oneda, S
Prerequisite: PHYS 623. Relativistic wave equations, second quantization in many body problems and relativistic wave equations; Feynman-Dyson perturbation theory, applications to many body problems, application to quantum electrodynamics, elements of renormalization.			
<b>PHYS 796</b>	<b>Special Problems in Advanced Physics 1-3 credits; Grading Method: REG/AUD</b> Permission of department required. Contact department to make arrangements.		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHYS 799</b>	<b>Master's Thesis Research 1-6 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>PHYS 899</b>	<b>Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>		
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

## PORT (ARTS AND HUMANITIES)

<b>PORT 101</b>	<b>Elementary Portuguese 4 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (A) Cultural and Historical requirement.		
0101	Meets JUN 5 to JUL 14 MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 0103	Gordo, M
Introduction to basic structures, with emphasis upon audio-lingual skills. Leads to 102.			

## PSYC

### PSYCHOLOGY (BEHAVIOR AND SOCIAL SCI)

<b>PSYC 100</b>	<b>Introduction to Psychology 3 credits; Grading Method: REG/P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.		
0101	MTuWThF 9:30am-10:50am	Bldg. ZOP, Room 1243	Stemham, C
0201	MTuWThF 9:30am-10:50am	Bldg. ZOP, Room 1243	Johnson, J
A basic introductory course, intended to bring the student into contact with the major problems confronting psychology and the more important attempts at their solution.			

**PSYC cont.**

**PSYC 200 Statistical Methods in Psychology 3 credits; Grading Method: REG-P-FAUD**  
 0101 MTuWThF 11:00am-12:20pm Bldg. ZOP, Room 1236 Larkin, W  
 0201 MTuWThF 9:30am-10:50am Bldg. ZOP, Room 1238 Daubman, K  
 Prerequisite: PSYC 100 and MATH 111 or 140 or 220. A basic introduction to quantitative methods used in psychological research.

**PSYC 221 Social Psychology 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
 0101 MW 2:00pm-5:00pm Bldg. ZOP, Room 1243 Stangor, C.  
 Prerequisite: PSYC 100. The influence of social factors on the individual and interpersonal behavior. Includes topics such as conformity, attitude change, person perception, interpersonal attraction and group behavior.

**PSYC 225 Psychology of Adjustment 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement. Students who have taken PSYC 335 may not get credit for this course.  
 0101 MTuWThF 11:00am-12:20pm Bldg. ZOP, Room 1234 Coursey, R  
 Prerequisite: PSYC 100. Theory and research on the psychology of personal adjustment in everyday life, with an emphasis on self-concept, emotions, social, interpersonal relations, and stress.

**PSYC 310 Perception 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
 0101 MTuWThF 11:00am-12:20pm Bldg. ZOP, Room 2283 Sternheim, C  
 Prerequisite: PSYC 100 or consent of the instructor. A survey of phenomena and theories of perception including psychological, anatomical, physiological, and environmental factors important in determining how we perceive the world. Historical background will be examined as well as contemporary research. No credit for students who have completed PSYC 410.

**PSYC 332 Psychology of Human Sexuality 3 credits; Grading Method: REG-P-FAUD**  
 0201 MTuWThF 11:00am-12:20pm Bldg. ZOP, Room 1236 Coursey, R  
 Prerequisite: PSYC 100. A survey of historical and contemporary psychological views on a wide variety of sexual behaviors; theory and research bearing on the relationship between life span psychological development, psychological functioning, interpersonal processes and sexual behaviors, physical and social issues involved in current sexual norms and practices.

**PSYC 334 Psychology of Interpersonal Relationships 3 credits; Grading Method: REG-P-FAUD**  
 0201 MTuWThF 9:30am-10:50am Bldg. ZOP, Room 1236 Brown, R  
 Prerequisite: PSYC 100. Research, theory and their practical applications pertaining to the development, maintenance and dissolution of human relationships. Processes critical to successful relating (e.g. communication, bargaining, conflict relations), and issues associated with troubled dyadic relations with equal partners (e.g. jealousy, spouse abuse, divorce).

**PSYC 336 Psychology of Women 3 credits; Grading Method: REG-P-FAUD**  
 0101 MTuWThF 8:00am-9:20am Bldg. ZOP, Room 1243 Dies, K  
 Prerequisite: PSYC 100. A survey of the biological, life-span development, socialization, personality, mental health factors, and special problems of women.

**PSYC 337 Introduction to Community Psychology 3 credits; Grading Method: REG-P-FAUD**  
 0201 MW 2:00pm-5:00pm Bldg. ZOP, Room 2283 Steele, R  
 Prerequisites: PSYC 100. Survey and critical examination of environmental factors associated with variations in individual functioning. Effects of social process and social structure in community life on individual mental health, theoretical models in community psychology. Additional topics within community psychology.

**PSYC 353 Adult Psychopathology 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement. Students may receive credit for only one of the following: PSY 333, 423 or 431.  
 0101 MTuWThF 9:30am-10:50am Bldg. ZOP, Room 1238 Coursey, R  
 Prerequisite: PSYC 100. The nature, diagnosis, etiology and treatment of mental disorders among adults.

**PSYC 355 Child Psychology 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
 0201 TuTh 2:00pm-5:00pm Bldg. ZOP, Room 1243 Johnson, J  
 Prerequisite: PSYC 100. Survey of research and theory of psychological development from conception through childhood, stressing physiological, conceptual and behavioral changes and the social and biological context in which individuals develop. Not open for credit to students who have already completed PSYC 333 or 433.

**PSYC 356 Psychology of Adolescence 3 credits; Grading Method: REG-P-FAUD**  
 0101 TuTh 2:00pm-5:00pm Bldg. ZOP, Room 1243 Hall, W  
 Prerequisite: PSYC 100, 355, or permission of the instructor. A description of adolescent development based on research and theory interrelating biological, intellectual, and social changes during the teen years and the systems dealing with those changes.

**PSYC 361 Survey of Industrial and Organizational Psychology 3 credits; Grading Method: REG-P-FAUD**  
 0101 TuTh 6:00pm-9:00pm Bldg. ZOP, Room 1236 Kidder, P  
 Prerequisite: PSYC 100. A general survey of the field of industrial organizational psychology including such topics as organizational entry (recruitment, selection, training, socialization), organizational psychology (motivation, leadership, job attitudes), and productivity in the work place (performance appraisal, absenteeism, turnover). The role that the larger environment plays in influencing work behaviors and work attitudes.

**PSYC 400 Experimental Psychology: Learning and Motivation 4 credits; Grading Method: REG-P-FAUD**  
 Permission of department required.  
 0201 MTuWThF 11:00am-12:20pm Bldg. ZOP, Room 1236 Gollub, L  
 MTuW 12:30pm-1:50pm Bldg. ZOP, Room 4102 (LAB) Gollub, L  
 0202 MTuWThF 11:00am-12:20pm Bldg. ZOP, Room 1236 Gollub, L  
 WThF 9:30am-10:50am Bldg. ZOP, Room 4102 (LAB)  
 Prerequisites: PSYC 200 or a course in statistics from an approved departmental list, completion of the departmentally required English, math and science supporting course sequence, consent of the department. The experimental analysis of behavior, with emphasis on conditioning, learning and motivational processes. Experiments on the behavior of animals.

**PSYC 420 Experimental Psychology: Social Processes 4 credits; Grading Method: REG-P-FAUD**  
 Permission of instructor required.  
 0101 MTuWThF 9:30am-10:50am Bldg. ZOP, Room 0147 Sigall, H  
 TuTh 8:00am-9:20am Bldg. ZOP, Room 0147 (LAB) Sigall, H  
 0102 MTuWThF 9:30am-10:50am Bldg. ZOP, Room 0147 Sigall, H  
 TuTh 11:00am-12:20pm Bldg. ZOP, Room 0147 (LAB) Sigall, H  
 Prerequisites: PSYC 200 or a statistics course from an approved departmental list, PSYC 221, completion of the English, math and science supporting course sequence, consent of the department and laboratory course to provide a basic understanding of experimental method in social psychology and experience in conducting research on social processes.

**PSYC 432 Introduction to Counseling Psychology 3 credits; Grading Method: REG-P-FAUD**  
 0101 MW 2:00pm-5:00pm Bldg. ZOP, Room 2283 Dies, R  
 Prerequisite: nine hours in psychology. A survey and critical analysis of research and intervention strategies developed and used by counseling psychologists. Examination of both historical and current trends in content and methodology.

**PSYC 435 Personality Theories 3 credits; Grading Method: REG-P-FAUD**  
 0201 TuTh 2:00pm-5:00pm Bldg. ZOP, Room 2283 Steele, R  
 Prerequisites: PSYC 100, PSYC 200 or its equivalent. Major theories of personality and research methods and findings related to those theories.

**PSYC 436 Introduction to Clinical Psychology 3 credits; Grading Method: REG-P-FAUD**  
 0201 MTuWThF 8:00am-9:20am Bldg. ZOP, Room 1238 Dies, R  
 Prerequisites: PSYC 100. A survey and critical analysis of clinical psychology, with particular emphasis on current developments and trends. Students will be expected to conduct individual projects with a substantial amount of direct supervision.

**PSYC cont.**

**PSYC 478 Independent Study in Psychology 1-3 credits; Grading Method: REG-P-FAUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**PSYC 479 Special Research Problems in Psychology 1-3 credits; Grading Method: REG-P-FAUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**PSYC 490H Honors Thesis Research 3 credits; Grading Method: REG-P-FAUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**PSYC 788 Special Research Problems 1-4 credits; Grading Method: REG/AUD**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**PSYC 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**PSYC 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**PUBLIC AFFAIRS (PUBLIC AFFAIRS)**

**PUAF 798B Readings in Public Policy 1-3 credits; Grading Method: REG**  
 Permission of department required.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**RECREATION (PHYS ED, RECR, AND HEALTH)**

**RECR 130 Recreation and Leisure 3 credits; Grading Method: REG-P-FAUD**  
 Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
 0101 MTuWThF 9:30am-10:50am Bldg. ANH, Room 1302 Iso-Ahola, S  
 0201 MW 7:00pm-10:00pm Bldg. PRH, Room 1302 Charbonneau, B  
 The study of recreation and leisure behavior, including concepts, theories and terminology. Psychological, social psychological and sociological factors that affect recreation and leisure behavior throughout the lifespan. Analysis of recreation and leisure behavior in our changing society.

**RECR 325 General Fundamentals of Recreation 3 credits; Grading Method: REG-P-FAUD**  
 0101 TuTh 7:00pm-10:00pm Bldg. PRH, Room 1302 Churchill, J  
 0201 MW 4:00pm-7:00pm Bldg. PRH, Room 1302 Churchill, J  
 This course is designed for and limited to students not majoring in recreation who wish to develop some understanding of the place, importance and potentialities of recreation in modern life. Included will be limited study of the areas of philosophy, program planning, leadership techniques, organization and administration, and interrelationships with other fields.

**RECR 340 Field Work I 6 credits; Grading Method: REG**  
 Permission of department required. Sophomore field experience. Students may enroll for either Section 0101 or 0201 but must attend all class meetings during both summer sessions.  
 0101 Tu 7:00pm-9:00pm Bldg. PRH, Room 0305 Harper, S  
 Time Arranged Room Arranged  
 0201 Tu 7:00pm-9:00pm Bldg. PRH, Room 0305 Iso-Ahola, S  
 Time Arranged Room Arranged  
 Prerequisites: RECR 200; and permission of department. Practical field experience in developing recreation activity leadership skills at an organized recreation department or agency. Students will be expected to make a commitment for a minimum of eight weeks or equivalent.

**RECR 341 Field Work II 6 credits; Grading Method: REG**  
 Permission of department required. Recreation majors only. Students may enroll for either Sections 0101 or 0201 but must attend all class meetings during both summer sessions.  
 0101 Tu 6:00pm-7:00pm Bldg. PRH, Room 0305 Annand, V  
 Time Arranged Room Arranged  
 0201 Tu 6:00pm-7:00pm Bldg. PRH, Room 0305 Annand, V  
 Time Arranged Room Arranged  
 Prerequisites: RECR 300; and permission of department. Observation and field work placement selected and assigned on the basis of the student's interest and future employment plans. Leadership activity and participation in staff activities and responsibilities.

**RECR 386 Field Work 1-3 credits; Grading Method: REG**  
 Permission of department required. Advisor approval required before registration.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**RECR 387 Field Work Analysis 1-3 credits; Grading Method: REG**  
 Permission of department required. Advisor approval required before registration.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**RECR 389A Topical Investigations: Recreation Leadership Laboratory 3 credits; Grading Method: REG-P-FAUD**  
 Permission of instructor required.  
 Prerequisite: RECR 130 or RECR 325.  
 0101 MW 7:00pm-10:00pm Bldg. PRH, Room 0102 Strobell, A

**RECR 489 Field Laboratory Projects and Workshop 1-6 credits; Grading Method: REG-P-FAUD**  
 0101 Permission of department required. Advisor approval required before registration.  
 0201 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**RECR 498Y Special Topics in Recreation: Computer Applications in Leisure Services 3 credits; Grading Method: REG-P-FAUD**  
 0101 TuTh 7:00pm-10:00pm Bldg. PRH, Room 1304 Dreccio, B

**RECR 688 Special Problems in Recreation 1-6 credits; Grading Method: REG**  
 Permission of department required. Graduate students only. Advisor approval required before registration.  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**RECR 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

**RECR 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
 0101 Time Arranged Room Arranged Staff  
 0201 Time Arranged Room Arranged Staff

## RTVF

## (ARTS AND HUMANITIES)

## RADIO TELEVISION AND FILM

- RTVF 124** Mass Communication in 20th Century Society 3 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.
- 0101 MTuWThF 12:30pm-1:50pm Bldg. TWS, Room 0147 Pecora, N  
The evolution of mass communications and the impact of the media on contemporary society. Emphasis on broadcasting and film treatments of social, economic, or political issues.
- RTVF 222** Introduction to Radio, Television, and Film 3 credits; Grading Method: REG/P-FAUD  
0101 MTuWThF 9:30am-10:50am Bldg. TWS, Room 0147 Pecora, N  
0201 MTuWThF 2:00pm-3:20pm Bldg. TWS, Room 0147 Shyles, L  
The development, scope and influence of radio, television, and film; emphasis on the relationship of the industries to audiences, advertisers, and government.
- RTVF 223** The Television Program: Planning and Management 3 credits; Grading Method: REG/P-FAUD  
0201 MTuWThF 9:30am-10:50am Bldg. TWS, Room 0147 Lancaster, D  
Prerequisite: RTVF 222. Study of basic program formats, including scripting, acetates pre-production planning, production, production organization, management, facility utilization and cost analysis.
- RTVF 302** Beginning Sound Production 3 credits; Grading Method: REG/AUD  
Permission of department required.  
0201 MTuWThF 12:30pm-1:50pm Bldg. TWS, Room 0131 Lancaster, D  
Prerequisite: RTVF 223. Practical experience in sound production, including scripting, acetates planning, recording, editing, and coordination of personnel. Application principally toward radio.
- RTVF 314** Introduction to the Film 3 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (C) Literature and the Arts requirement.  
0101 TuWTh 9:00am-11:30am Bldg. TWS, Room 2154 Weiss, G  
An elementary survey of the film as an art form. Included are: the medium of the cinema, a brief survey of its development, film genres, esthetics, criticism, and the current international scene. A series of significant American and foreign films are viewed.
- RTVF 317** Radio and Television Continuity Writing 3 credits; Grading Method: REG  
0101 MTuWThF 9:30am-10:50am Bldg. TWS, Room 0138 Robinson, E  
Prerequisites: RTVF 223 and ENGL 391 or exemption from the latter. Principles, methods and limitations of writings for radio and television. Application toward writing of general types of continuities and commercials.
- RTVF 333** Television and Children 3 credits; Grading Method: REG/AUD  
Permission of department required.  
0101 TuWTh 7:00pm-9:00pm Bldg. TWS, Room 0147 Parks, S  
Prerequisites: RTVF 223 or consent of the instructor. A study of programming designed for children. Investigation of current research and the analysis of specific programs. Field studies with local children.
- RTVF 340** Principles of Television Production Techniques 3 credits; Grading Method: REG/P-FAUD  
0201 MTuWTh 12:30pm-3:00pm Bldg. TWS, Room 0117 Daso, D  
Prerequisite: RTVF 223 and consent of the instructor. Theory, methods techniques and problems of television production; television cameras and lenses, lighting theory and practices, audio, graphic arts and special effects. Practical application in television studios.
- RTVF 351** Television Programming 3 credits; Grading Method: REG/P-FAUD  
0101 MTuWThF 2:00pm-3:20pm Bldg. TWS, Room 0138 Blum, R  
Prerequisite: RTVF 223. Introduction to the types, theories, regulations, and conventions of the television programming. Exploration of the roles of programmers, advertisers, ratings services, producers, and regulatory bodies through a programming simulation.
- RTVF 356** Film Production I, Introduction 3 credits; Grading Method: REG/P-FAUD  
0101 TuWTh 12:30pm-3:00pm Bldg. TWS, Room 2218 Weiss, G  
Prerequisites: for majors, RTVF 222 and consent of instructor; for non-majors, consent of the instructor. Introduction to film technology and techniques.
- RTVF 384** Field Work Experience 1-3 credits; Grading Method: S-F  
Permission of department required. RTVF majors only.  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff  
Supervised, professional field work experience in business, industry, government or education. Enrollment is by permission of the department and is limited to majors.
- RTVF 385** Field Work Analysis 1-3 credits; Grading Method: REG/AUD  
Permission of department required.  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff  
A seminar and/or a written critique of the field work experience is required. Enrollment is by permission of the department and is limited to majors.
- RTVF 417** Dramatic Writing For Broadcasting and Film 3 credits; Grading Method: REG/AUD  
Permission of department required.  
0101 MTuWThF 9:30am-10:50am Bldg. TWS, Room 0135 Blum, R  
Prerequisite: RTVF 317 or consent of instructor. An introduction to the principles, methods and limitations of writing comedy, drama, and the documentary for radio, television, and film.
- RTVF 449** Television Workshop 1-3 credits; Grading Method: REG/P-FAUD  
Permission of department required.  
0201 Time Arranged Room Arranged Daso, D
- RTVF 456** Structure and Criticism of TV Advertising 3 credits; Grading Method: REG  
0101 MTuWThF 9:30am-12:20pm Bldg. TWS, Room 0147 Robinson, E  
Prerequisites: RTVF 222, RTVF 223 and RTVF 317. An examination of the persuasive power of television advertising. Analysis of form, structure and content of the television commercial and techniques used to influence attitudes and behavior.
- RTVF 498** Seminar 3 credits; Grading Method: REG/P-FAUD  
Permission of department required.  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- RTVF 498B** Seminar: Gender Roles in the Media 3 credits; Grading Method: REG/P-FAUD  
Permission of department required.  
0101 TuWTh 4:00pm-6:00pm Bldg. TWS, Room 0154 Parks, S
- RTVF 498V** Seminar: Intro to Visual Communication 3 credits; Grading Method: REG/AUD  
Permission of department required.  
0201 MTuWThF 11:00am-12:20pm Bldg. TWS, Room 0138 Aylward, T
- RTVF 648G** Seminar in Broadcasting: Seminar: Gender Roles in the Media 3 credits; Grading Method: REG/AUD  
Permission of department required.  
0101 TuWTh 4:00pm-6:00pm Bldg. TWS, Room 0154 Parks, S
- RTVF 699** Independent Study 1-3 credits; Grading Method: REG/AUD  
Permission of department required.  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- RTVF 799** Master's Thesis Research 1-6 credits; Grading Method: REG  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff

## RUSS

## (ARTS AND HUMANITIES)

## RUSSIAN

- RUSS 101** Elementary Russian I 5 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (A) Culture and Historical requirement.  
0101 MTuWThF 9:30am-12:20pm Bldg. JMZ, Room 3205 Staff  
Not open to native speakers of Russian. Elements of grammar, pronunciation, conversation and reading; exercises in translation.
- RUSS 102** Elementary Russian II 5 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (A) Cultural and Historical requirement.  
0201 MTuWThF 9:30am-12:20pm Bldg. JMZ, Room 0202 Hitchcock, D  
Prerequisite: RUSS 101. Not open to native speakers of Russian. Continuation of RUSS 101. Elements of grammar, pronunciation, and conversation; exercises in translation.
- RUSS 201** Intermediate Russian I 4 credits; Grading Method: REG/P-FAUD  
0101 MTuWTh 9:30am-12:20pm Bldg. JMZ, Room 0204 Schallert, W  
Prerequisite: RUSS 102. Not open to native speakers of Russian. Continuation of RUSS 102. For students planning to continue the study of Russian. Review and expansion of grammar knowledge, conversation and reading skills; exercises in translation. Note: this new RUSS 201 has no relation to the old SLAV 201, which is to be eliminated.
- RUSS 202** Intermediate Russian II 4 credits; Grading Method: REG/P-FAUD  
0201 MTuWTh 9:30am-12:20pm Bldg. JMZ, Room 3207 Staff  
Prerequisite: RUSS 201. Not open to native speakers of Russian. Continuation of RUSS 201. Review and expansion of grammar knowledge, conversation and reading skills. Exercises in translation.

## SLAVIC

- SLAV 499** Directed Study 1-3 credits; Grading Method: REG/P-FAUD  
0101 Time Arranged Room Arranged Hitchcock, D

## SOCY

## (BEHAVIOR AND SOCIAL SCI)

- SOCY 100** Introduction to Sociology 3 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
0101 MTuWThF 9:30am-10:50am Bldg. ASY, Room 3207 Hirzel, R  
0201 MTuWThF 2:00pm-3:20pm Bldg. ASY, Room 3203 Canjar, R  
The fundamental concepts and principles of sociology. Includes consideration of culture, patterns of social interaction, norms, values, social institutions, stratification, and social change.
- SOCY 105** Introduction to Contemporary Social Problems 3 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
0201 MTuWThF 11:00am-12:20pm Bldg. ASY, Room 3207 Firstenberg, K  
An examination of contemporary social problems through sociological perspectives; ways in which social problems are part of the organization of society; a detailed study of selected social problems including social conflict and social inequality. Not open to students who already have credit for SOCY 210.
- SOCY 201** Introductory Statistics For Sociology 4 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.  
0101 MTuWThF 12:30pm-1:50pm Bldg. ASY, Room 3203 Harper, G  
TuTh 8:00am-10:30am Bldg. ASY, Room 2309 (LAB)  
Prerequisites: SOCY 100 or 105 and MATH 110 or equivalent. Elementary descriptive and inferential statistics. Construction and percentage of bivariate contingency tables; frequency distributions and graphic presentations; measures of central tendency and dispersion; parametric and nonparametric measures of association and correlation; regression; probability; hypothesis testing; the normal, binomial and chi-square distributions; point and interval estimates.
- SOCY 203** Sociological Theory 3 credits; Grading Method: REG/P-FAUD  
0101 MTuWThF 9:30am-10:50am Bldg. ASY, Room 3203 Hunt, L  
Prerequisite: SOCY 100 or 105. Development of the science of sociology; historical backgrounds; recent theories of society. Required of all sociology majors.
- SOCY 300** American Society 3 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
0201 MTuWThF 12:30pm-1:50pm Bldg. ASY, Room 3207 Vanneman, R  
The social structure and organization of American society with special reference to recent social values and ideology of Americans - social movements and changes in work, family life and recreation.
- SOCY 325** Sex Roles 3 credits; Grading Method: REG/P-FAUD  
Meets USP Advanced Studies Analysis of Human Problems requirement.  
0101 MTuWThF 9:30am-12:20pm Bldg. ASY, Room 3203 McIntyre, J  
0201 MTuWThF 9:30am-10:50am Bldg. ASY, Room 3203 Hunt, J  
Sex-role differentiation and sex inequality from a sociological perspective. Institutional bases of sex inequality, cultural views of the sexes, sex-role socialization and sex-role change. Emphasis on contemporary American society.
- SOCY 327** Introduction to the Study of Sexes 3 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
0101 MTuWThF 12:30pm-1:50pm Bldg. ASY, Room 3207 Pease, J  
Prerequisite: SOCY 100 or 105. An introduction to the sociological study of deviant behavior, covering such topics as mental illness, sexual deviance, and the use of drugs. Students may not receive credit for SOCY 327 if they have completed SOCY 427.
- SOCY 331** Work, Bureaucracy, and Industry 3 credits; Grading Method: REG/P-FAUD  
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement.  
0101 MTuWTh 11:00am-12:20pm Bldg. ASY, Room 3207 Langemann, J  
A sociological approach to the world of work, occupational careers, and personal experiences in the bureaucratic organizations of modern industrial society.
- SOCY 343** Sociology of Marriage and Family 3 credits; Grading Method: REG/P-FAUD  
0201 MTuWThF 2:00pm-3:20pm Bldg. ASY, Room 3207 Kammeyer, K  
Prerequisite: SOCY 100 or 105. The sociological study of marriage and family life, including a consideration of demographic trends in marriage, childbearing, divorce; sociological theories of contemporary controversial issues, such as the relationship of unmarried couples, alternative marriage forms, abortion, and violence in the family.
- SOCY 386** Field Work 1-3 credits; Grading Method: REG/P-FAUD  
Permission of department required.  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff
- SOCY 387** Field Work Analysis 1-3 credits; Grading Method: REG/P-FAUD  
Permission of department required.  
0101 Time Arranged Room Arranged Staff  
0201 Time Arranged Room Arranged Staff



**SOCY cont.**

<b>SOCY 399 Independent Study in Sociology 1-6 credits; Grading Method: REG-P-F-AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>SOCY 699 Special Social Problems 1-16 credits; Grading Method: REG-AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>SOCY 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>SOCY 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**SPAN (ARTS AND HUMANITIES)**

**SPANISH**

<b>SPAN 101 Elementary Spanish 4 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	Meets JUN 5 to JUL 14		
	MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 1215	Puente-Guerra, A
0102	Meets JUN 5 to JUL 14		
	MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 0208	Salvador, J
0201	Meets JUL 17 to AUG 25		
	MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 0208	Ding, Z
Introduction to basic structures, with emphasis upon understanding and speaking. Normally leads to 102, but gifted students may be recommended for 102H.			
<b>SPAN 102 Elementary Spanish 4 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	Meets JUN 5 to JUL 14		
	MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 1120	Little, K
0201	Meets JUL 17 to AUG 25		
	MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 1224	Mora, P
Continuation of SPAN 101, with increasing emphasis upon reading skill, reinforced by discussion and composition.			
<b>SPAN 203 Intermediate Spanish 4 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (A) Cultural and Historical requirement. Formerly SPAN 104.			
0101	Meets JUN 5 to JUL 14		
	MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 1226	Traverso-Rueda, S
0201	Meets JUL 17 to AUG 25		
	MTuWThF 9:30am-11:45am	Bldg. JMZ, Room 2207	Pireto, M
Continued development of the skills of understanding and speaking with supplementary attention to reading and writing. Enriched course of study, with broad oral base and related development of reading and writing.			
<b>SPAN 204 Review of Oral and Written Spanish 3 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (A) Cultural and Historical requirement. Formerly SPAN 201.			
0101	Meets JUN 5 to JUL 14		
	MTuWThF 9:30am-11:15am	Bldg. JMZ, Room 1117	Grunstein, J
0201	Meets JUL 17 to AUG 25		
	MTuWThF 9:30am-11:15am	Bldg. JMZ, Room 2122	Downey-Vanover, J
Prerequisite: SPAN 203. A practical language course recommended for all students continuing in Spanish. May be taken concurrently with SPAN 221 or SPAN 205.			
<b>SPAN 221 Readings in Spanish 3 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (C) Literature and the Arts requirement			
0201	Meets JUL 17 to AUG 25		
	MTuWThF 9:30am-11:15am	Bldg. JMZ, Room 1211	Martins, L
Prerequisite: SPAN 204. Selected readings from various genres in Spanish and Spanish American literature. Discussion and brief written reports in Spanish.			
<b>SPAN 311 Advanced Conversation I 3 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	Meets JUN 5 to JUL 14		
	MTuWThF 9:30am-11:15am	Bldg. JMZ, Room 1104	Palino, R
Prerequisite: SPAN 204 or 205 or consent of instructor. Designed to develop fluency and accuracy in speaking Spanish.			
<b>SPAN 312 Advanced Conversation II 3 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	Meets JUL 17 to AUG 25		
	MTuWThF 9:30am-11:15am	Bldg. JMZ, Room 1215	Cordero-Roman, A
Prerequisite: SPAN 311 or consent of instructor.			
<b>SPAN 321 Survey of Spanish Literature: 12th-17th Century 3 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (C) Literature and the Arts requirement.			
0101	Meets JUN 5 to JUL 14		
	MW 9:30am-12:20pm	Bldg. JMZ, Room 1122	Benito-Vessels, C
<b>SPAN 322 Survey of Spanish Literature: 18th-20th Century 3 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (C) Literature and the Arts requirement			
0201	Meets JUL 17 to AUG 25		
	TuTh 9:30am-12:20pm	Bldg. JMZ, Room 1226	Naharro-Calderon, J
<b>SPAN 324 Survey of Spanish-American Literature 3 credits; Grading Method: REG-P-F-AUD</b>			
Meets USP Distributive Studies (C) Literature and the Arts requirement			
0201	Meets JUL 17 to AUG 25		
	MW 9:30am-12:20pm	Bldg. JMZ, Room 1226	Bracho, C
Basic survey of the history of Spanish-American literature.			
<b>SPAN 399 Independent Study in Spanish 1-3 credits; Grading Method: REG-P-F-AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>SPAN 408 Great Themes of the Hispanic Literatures: Espana: Los cambios en el siglo XX 3 credits; Grading Method: REG-P-F-AUD</b>			
0201	Meets JUL 17 to AUG 25		
	MW 9:30am-12:20pm	Bldg. JMZ, Room 1103	Naharro-Calderon, J
Spanish literary history from the eleventh through the fifteenth century. Reading of representative texts. This course covers unit 1350.			
<b>SPAN 699 Independent Study in Spanish 1-3 credits; Grading Method: REG-AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>SPAN 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**SPAN cont.**

<b>SPAN 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**SPCH (ARTS AND HUMANITIES)**

**SPEECH**

<b>SPCH 100 Basic Principles of Speech Communication 3 credits; Grading Method: REG-P-F-AUD</b>			
0101	MTuWThF 9:30am-9:50am	Bldg. TWS, Room 1202	Staff
0102	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 1202	Staff
0103	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 2212	Staff
0104	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 1202	Staff
0105	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 2212	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. TWS, Room 2212	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 2212	Staff
0203	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 2230	Staff
0204	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 2230	Staff
Prerequisite for advanced speech courses: A study of oral communication principles, including verbal and nonverbal language, listening, group dynamics, and public speaking. Emphasis in this course is upon the application of these principles to contemporary problems and upon the preparation of different types of oral discourse. SPCH 100 and 107 may not both be used for credit.			
<b>SPCH 107 Technical Speech Communication 3 credits; Grading Method: REG-P-F-AUD</b>			
0101	MTuWThF 8:00am-9:20am	Bldg. TWS, Room 0131	Staff
0102	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 0131	Wolvin, A
0103	MTuWThF 9:30am-12:20pm	Bldg. TWS, Room 2228	Staff
0201	MTuWThF 8:00am-9:20am	Bldg. TWS, Room 2228	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 0135	Staff
0203	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 1204	Staff
A study of oral communication as it is part of technical fields. Emphasis in this course is on the principles and techniques of interviewing, group discussion, listening, and informative and persuasive briefings and speeches. SPCH 100 and 107 may not both be used for credit.			
<b>SPCH 125 Introduction to Interpersonal Communication 3 credits; Grading Method: REG-P-F-AUD</b>			
0101	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 2230	Edgar, T
0102	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 1204	Edgar, T
Concepts of interpersonal communication including perception, language and meaning, nonverbal communication, listening and feedback.			
<b>SPCH 200 Advanced Public Speaking 3 credits; Grading Method: REG-P-F-AUD</b>			
0101	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 0135	Wolvin, A
0201	MTuWThF 1:00pm-2:20pm	Bldg. TWS, Room 1204	McCaleb, J
Prerequisites: SPCH 100, SPCH 107 or permission of department. Rhetorical principles and models of speech composition in conjunction with the preparation and presentation of specific forms of public speaking.			
<b>SPCH 230 Argumentation and Debata 3 credits; Grading Method: REG-P-F-AUD</b>			
0101	MTuWThF 8:00am-9:20am	Bldg. TWS, Room 2228	Staff
0102	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 2228	Staff
A study of the fundamental principles of reasoning, analysis, and evidence preparation of debate briefs and presentation of standard academic debate.			
<b>SPCH 400 Research Methods in Speech Communication 3 credits; Grading Method: REG-AUD</b>			
0101	TuTh 2:30pm-5:30pm	Bldg. TWS, Room 2212	Fink, E
Prerequisite: introductory course in statistics or permission of department. SPCH 350 recommended. Philosophy of science, role of theory, research ethics, empirical research methods (measurement, sampling, design analysis).			
<b>SPCH 401 Foundations of Rhetoric 3 credits; Grading Method: REG-AUD</b>			
0101	MTuWThF 12:30pm-2:00pm	Bldg. TWS, Room 2154	Gaines, R
Prerequisite: SPCH 200. Principles and approaches to the theory, criticism, and historical understanding of rhetorical discourse.			
<b>SPCH 402 Communication Theory and Process 3 credits; Grading Method: REG-AUD</b>			
0101	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 0138	Gaines, R
SPCH 350 recommended. Philosophical and conceptual analysis of speech communication theories.			
<b>SPCH 488 Speech Communication Internship 1-3 credits; Grading Method: REG-P-F-AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>SPCH 775 Seminar in Persuasion and Attitude Change 3 credits; Grading Method: REG-AUD</b>			
0101	TuTh 7:00pm-10:00pm	Bldg. TWS, Room 2212	Fink, E
This section will concentrate on the problem of making message strategy decisions. Course content will consist of study of both theoretical and empirical research on attitude and attitude change in persuasive communication.			
<b>SPCH 798 Independent Study 1-3 credits; Grading Method: REG-AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>SPCH 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**STAT (COMP, MATH, AND PHYS SCI)**

<b>STAT 400 Applied Probability and Statistics I 3 credits; Grading Method: REG-P-F-AUD</b>			
0101	MTuWThF 8:00am-9:20am	Bldg. MTH, Room 0405	Staff
0202	MTuWThF 9:30am-10:50am	Bldg. MTH, Room 0106	Staff
Prerequisite: MATH 141. Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.			
<b>STAT 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>STAT 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**TEXT (HUMAN ECOLOGY)**

<b>TEXT 205 Textile Materials and Performance 3 credits; Grading Method: REG-P-F-AUD</b>			
0101	TuWThF 9:40am-10:50am	Bldg. MMH, Room 2401	Block, I
	TuTh 11:00am-12:50pm	Bldg. MMH, Room 2401 (LAB)	
Prerequisite: TEXT 105. Prior or concurrent registration in CHEM 103 recommended. Analysis of the structural components of consumer textile materials with emphasis on yarns, fibers, dyes and finishes as they relate to textile performance in consumer use.			

**TEXT cont.**

<b>TEXT 305 Textile Materials: Evaluation and Characterization</b> 3 credits; Grading Method: REG-P-F/AUD			
Formerly TEXT 250.			
0201	MTuWTh 9:30am-10:50am Tu,Th 11:00am-1:50pm	Bldg. MMH, Room 2201 Bldg. MMH, Room 2201 (LAB)	Sharma, D
Prerequisite: TEXT 205. An investigation of the behavior of textile materials in relation to environmental factors and conditions of service influencing performance, comfort and aesthetics. Laboratory experience provides an opportunity to explore a variety of textile materials and methods of evaluation.			
<b>TEXT 347 History of Costume II 3 credits; Grading Method: REG-P-F/AUD</b> Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0101	MW 7:00am-10:00pm	Bldg. MMH, Room 0108	Jung, K
The development of European and American dress from the Renaissance to the present, relating the history of costume to changing technology, social attitudes and trends in the popular and fine arts.			
<b>TEXT 363 History of Textiles 3 credits; Grading Method: REG-P-F/AUD</b> Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	MTuWThF 9:30am-10:50am	Bldg. MMH, Room 0108	Anderson, C
A study of historic and contemporary fibers and fabrics. The analysis of designs and techniques of decorating fabrics and the relationship of textiles to the aesthetic and developmental cultures of society.			
<b>TEXT 388 Field Work and Analysis in Textiles 3-6 credits; Grading Method: S-F</b> Limited to majors in textiles and consumer economics.			
0101	Time Arranged	Room Arranged	Wagner, J
0201	Time Arranged	Room Arranged	Wagner, J
Permission of Instructor.			
<b>TEXT 498 Special Studies 2-4 credits; Grading Method: REG-P-F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**THEATRE (ARTS AND HUMANITIES)**

<b>THET 110 Introduction to the Theatre 3 credits; Grading Method: REG-P-F/AUD</b> Meets USP Distributive Studies (C) Literature and the Arts requirement.			
0101	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 0241	Meersman, R
0102	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 0241	Patrick, M
0201	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 0241	Oleary, R
0202	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 0241	Elam, H
Introduction to the people of the theatre, actors, directors, designers and backstage personnel. The core and characteristics of a play script; theatrical forms and styles; and theater history.			
<b>THET 120 Acting 1-3 credits; Grading Method: REG-P-F/AUD</b> Meets USP Distributive Studies (C) Literature and the Arts requirement.			
0101	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 1228	Patrick, M
0201	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 1228	Elam, H
Prerequisites: THET 110 and THET 111. Basic principles of acting techniques. Exercises structured to develop the student's concentration, imagination, sense and emotional memory. Textual analysis, character analysis and scene study; and the application of these techniques to character portrayal through performance of short scenes.			
<b>THET 310 The American Theatre 3 credits; Grading Method: REG-P-F/AUD</b> Meets USP Distributive Studies (A) Cultural and Historical requirement.			
0201	MTuWThF 9:30am-10:50am	Bldg. TWS, Room 1204	Oleary, R
An analysis of the theatre people, plays, events, and social forces which shaped an evolution from the colonial beginnings of artistic dependence on England to the uniquely American theatre of today.			
<b>THET 386 Field Work 1-3 credits; Grading Method: REG-P-F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>THET 387 Field Work Analysis 1-3 credits; Grading Method: REG-P-F/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>THET 479 Theater Workshop 1-3 credits; Grading Method: REG-P-F/AUD</b> Permission of department required.			
0101	Time Arranged	Room Arranged	Knebs, D
<b>THET 495 History of Theatrical Theory and Criticism 3 credits; Grading Method: REG-P-F/AUD</b> Meets USP Advanced Studies Development of Knowledge requirement.			
0101	MTuWThF 11:00am-12:20pm	Bldg. TWS, Room 0131	Meersman, R
The development of theatrical theory and criticism from the Greeks to the modern theorist. The philosophical basis of theatre as an art form. Important theorists and the practical application of their theories in either play scripts or theatrical productions. Required attendance at selected live theatre productions.			
<b>THET 499 Independent Study 3 credits; Grading Method: REG</b> Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>THET 663F Independent Study 1-3 credits; Grading Method: REG/AUD</b> Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>THET 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b> Permission of department required.			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**TEXTILES AND CONSUMER ECONOMICS (HUMAN ECOLOGY)**

<b>TXCE 608 Special Problems 1-3 credits; Grading Method: REG/AUD</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>TXCE 799 Master's Thesis Research 1-6 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff
<b>TXCE 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG</b>			
0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**UMES (ARTS AND HUMANITIES)**

<b>MARYLAND ENGLISH INSTITUTE (ARTS AND HUMANITIES)</b>			
<b>UMEI 001 English as a Foreign Language: Beginning No credit; Grading Method: S-F</b> Permission of department required. An additional fee is charged for this course.			
0101	Meets JUN 19 to AUG 11	Room Arranged	Staff
0102	Meets JUN 19 to AUG 11	Room Arranged	Staff
Intensive course for the non-native speaker of English who has little or no previous knowledge of English. Focus on the rapid acquisition of the basic features of English grammar and pronunciation and on speaking and understanding American English; reading and writing appropriate to the level will be included. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.			
<b>UMEI 002 English as a Foreign Language: Intermediate I No credit; Grading Method: S-F</b> Permission of department required. An additional fee is charged for this course.			
0101	Meets JUN 19 to AUG 11	Room Arranged	Staff
0102	Meets JUN 19 to AUG 11	Room Arranged	Staff
Intensive course for the non-native speaker of English who has had some previous instruction in English. Emphasis on improving listening and speaking skills, on mastering intermediate grammatical structures, and on expanding vocabulary. Includes practice in reading and writing appropriate to the level. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.			
<b>UMEI 003 English as a Foreign Language: Intermediate II No credit; Grading Method: S-F</b> Permission of department required. An additional fee is charged for this course.			
0101	Meets JUN 19 to AUG 11	Room Arranged	Staff
0102	Meets JUN 19 to AUG 11	Room Arranged	Staff
Intensive course for the non-native speaker of English who has mastered the essential structures of English grammar. Emphasis on improving communicative skills for a wide range of linguistic situations, on rapid expansion of vocabulary, and on improving reading comprehension and basic writing skills. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.			
<b>UMEI 004 English as a Foreign Language: Intermediate III No credit; Grading Method: S-F</b> Permission of department required. An additional fee is charged for this course.			
0101	Meets JUN 19 to AUG 11	Room Arranged	Staff
0102	Meets JUN 19 to AUG 11	Room Arranged	Staff
Intensive course for the non-native speaker of English who has a good command of the basic features of spoken and written English. Emphasis on refining speaking and listening skills, on improving reading speed and comprehension of academic texts, and on developing writing skills for academic courses. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.			
<b>UMEI 005 Advanced English as a Foreign Language 6 credits; Grading Method: S-F</b> Permission of department required. An additional fee is charged for this course.			
0201	MTuWThF 8:00am-11:00am	Bldg. ARC, Room 1125	Staff
0202	MTuWThF 1:00pm-3:00pm	Bldg. ARC, Room 1125	Staff
0203	MTuWThF 1:00pm-3:00pm	Bldg. JMZ, Room 0204	Staff
0204	MTuWThF 8:00am-11:00am	Bldg. JMZ, Room 0204	Staff
Sem-intensive course for the nearly proficient non-native speaker of English needing additional language instruction prior to undertaking full-time academic study. Speaking and listening skills; improvement of reading speed and comprehension, and development of writing skills with special emphasis on research papers and use of the University library. Special fee required for this course. This course does not carry credit towards any degree at the University and does not count in the retention plan.			

**URBS (BEHAVIOR AND SOCIAL SCI)**

<b>INSTITUTE FOR URBAN STUDIES (BEHAVIOR AND SOCIAL SCI)</b>			
<b>URBS 100 Introduction to Urban Studies 3 credits; Grading Method: REG-P-F/AUD</b> Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement. There is a special fee of \$50.00 to cover the cost of field trips for this course.			
0101	Tu 10:00am-1:00pm Th 10:00am-3:00pm	Bldg. LEF, Room 2123 Bldg. LEF, Room 2123	Laidlaw, C
Contemporary urban patterns, trends and problems. Major urban issues, such as: population, the economic, land use, housing, neighborhood development, fiscal and unemployment crises, and social, environmental, and political controversies of metropolitan areas. Urbanization patterns and policies internationally.			
<b>URBS 386 Field Work 1-3 credits; Grading Method: REG-P-F/AUD</b> Permission of department required. Learning contract must be obtained from 0119 Hombake.			
0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B
<b>URBS 387 Field Work Analysis 1-3 credits; Grading Method: REG-P-F/AUD</b> Permission of department required. Learning contract must be obtained from 0119 Hombake.			
0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B
<b>URBS 399A Independent Study in Urban Topics; Independent Study for Interns</b> 3 credits; Grading Method: REG-P-F/AUD Permission of department required. May be taken concurrently with URBS 438, Urban Internship.			
0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B
<b>URBS 399I Independent Study in Urban Topics 3 credits; Grading Method: REG-P-F/AUD</b> Permission of department required.			
0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B
<b>URBS 438 Urban Internship 1-6 credits; Grading Method: REG-P-F/AUD</b> Permission of department required. Concurrent registration with URBS 399A is possible.			
0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B
<b>URBS 470 Management and Administration of Metropolitan Areas</b> 3 credits; Grading Method: REG-P-F/AUD			
0101	MW 5:00pm-8:00pm	Bldg. LEF, Room 1220	Levin, M
Management and administration of local government in a metropolitan area with emphasis on cities and special districts in urban areas. Urban governmental organizations, management styles and service delivery. Contemporary problems confronting urban local governments.			
<b>URBS 480 Selected Topics in Urban Studies: Microcomputer Applications in Planning</b> 3 credits; Grading Method: REG-P-F/AUD			
0201	Tu,Th 6:00pm-9:00pm	Bldg. LEF, Room 1220	Chang, W



**URBS cont.**

**URBS 488I Selected Topics in Urban Studies: Geographic Information Systems**  
3 credits; Grading Method: REG P-F/AUD  
Prerequisite: GEOG 373 or consent of instructor Starting Fall 1987, this course is a prerequisite for GEOG 696

0101	MW 4:00pm-7:30pm	Bldg LEF, Room 1124	Thompson, D
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**URBS 488Q Selected Topics in Urban Studies: Quantitative Methods in Urban Studies**  
3 credits; Grading Method: REG P-F/AUD

0101	TuTh 6:00pm-9:00pm	Bldg LEF, Room 1220	Lairdaw, C
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**URBS 488W Selected Topics in Urban Studies: Workshop in Urban and Community Development**  
3 credits; Grading Method: REG P-F/AUD

0101	MW 9:00am-12:30pm	Bldg LEF, Room 1221	Hula, R
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**URBS 601 Urban Research Methods: Multivariate Statistics 3 credits; Grading Method: REG/AUD**  
0101 TuTh 6:00pm-9:00pm Bldg LEF, Room 1220 Lairdaw, C  
Prerequisite: URBS 350 or equivalent. Multivariate statistical analysis for urban problem solving and research. Linear and non-linear correlation and regression, factor analysis, cluster analysis. Social science research methodology. Applications, computer software

**URBS 689 Internship Seminar: Graduates Internship 3-6 credits; Grading Method: REG/AUD**  
Permission of department required

0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B

**URBS 698 Independent Study in Urban Topics 3 credits; Grading Method: REG/AUD**  
Permission of department required. Contact department to make arrangements

0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B

**URBS 698A Independent Study in Urban Topics: Independent Study for Interns 3 credits; Grading Method: REG/AUD**  
Contact department to make arrangements Concurrent registration with URBS 689 is possible

0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B

**URBS 698I Independent Study in Urban Topics 3 credits; Grading Method: REG/AUD**  
Contact department to make arrangements

0101	Time Arranged	Room Arranged	Williams, B
0201	Time Arranged	Room Arranged	Williams, B

**URBS 698R Independent Study in Urban Topics: Independent Readings 3 credits; Grading Method: REG/AUD**  
Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**URBS 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
Permission of department required

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**WMST**

**WOMEN'S STUDIES (ARTS AND HUMANITIES)**

**WMST 200 Introduction to Women's Studies: Women and Society 3 credits; Grading Method: REG P-F/AUD**  
Meets USP Distributive Studies (D) Social and Behavioral Sciences requirement

0201	MW 10:00am-1:00pm	Bldg HBK, Room 1108	Staff
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An interdisciplinary study of the status, roles, and experiences of women in society. Sources from a variety of fields such as literature, psychology, history, and anthropology, focusing on the writings of women.

**WMST 250 Introduction to Women's Studies: Women, Art and Culture 3 credits; Grading Method: REG P-F/AUD**  
Meets USP Distributive Studies (C) Literature and the Arts requirement.

0101	TuTh 9:00am-12:00pm	Bldg. HBK, Room 0117	Pratt, M
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An exploration of women's creativity. Traditional and alternative women's cultures, art, myth, literature, and theory by women; women's heroic journeys; and emerging feminist art and culture.

**WMST 350 Feminist Education Practicum 3 credits; Grading Method: REG/AUD**  
Permission of department required

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

Corequisite: WMST 351 Teaching practicum, providing experience in the facilitation of small sections of lower division introductory survey courses.

**WMST 351 Feminist Education Analysis 3 credits; Grading Method: REG/AUD**  
Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

Corequisite: WMST 350 General application of feminist methodology to teaching and communication skills, teaching strategies, motivation, classroom dynamics and knowledge of students' development and learning styles.

**WMST 400 Theories of Feminism 3 credits; Grading Method: REG P-F/AUD**  
Meets USP Advanced Studies Development of Knowledge requirement.

0101	TuTh 2:00pm-5:00pm	Bldg HBK, Room 0117	Pratt, M
0201	TuTh 10:00am-1:00pm	Bldg HBK, Room 1116	Staff

Prerequisite: WMST 200 or 250, or consent of instructor. A study of feminist theories from an interdisciplinary perspective, including politics, sociology, psychology, anthropology, and philosophy.

**WMST 498A Special Topics in Women's Studies: Women in International Development 3 credits; Grading Method: REG P-F/AUD**

0101	MW 11:00am-2:00pm	Bldg LEF, Room 1222	Hogue, N
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**WMST 498B Special Topics in Women's Studies: Asian and Asian-American Women 3 credits; Grading Method: REG P-F/AUD**

0201	TuTh 4:00pm-7:00pm	Bldg HBK, Room 1116	Ho, C
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**WMST 499 Independent Study: Individual Study in Women's Studies 1-3 credits; Grading Method: REG P-F/AUD**  
Permission of department required. Individual instruction course Prerequisite: 3 hours of WMST, upper division standing

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**WMST 699 Independent Study 1-3 credits; Grading Method: REG/AUD**  
By permission of instructor only

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ZOOL**

**ZOOLOGY**

**(LIFE SCIENCES)**

**ZOOL 201 Human Anatomy and Physiology I 4 credits; Grading Method: REG P-F/AUD**

0101	MTuWThF 11:00am-12:20pm	Bldg ZOP, Room 1243	Digiovanna, A
	TuTh 8:00am-11:00am	Bldg ZOP, Room 0207 (LAB)	
0102	MTuWThF 11:00am-12:20pm	Bldg ZOP, Room 1243	Digiovanna, A
	TuTh 8:00am-11:00am	Bldg ZOP, Room 0205 (LAB)	
0103	MTuWThF 11:00am-12:20pm	Bldg ZOP, Room 1243	Digiovanna, A
	TuTh 1:00pm-4:00pm	Bldg ZOP, Room 0205 (LAB)	

Prerequisite: BIOL 105 or equivalent. Anatomy and physiology of the skeletal, muscular, neural, endocrine, and sensory systems. Not accepted as credit toward the zoology major

**ZOOL 202 Human Anatomy and Physiology II 4 credits; Grading Method: REG P-F/AUD**

0101	MTuWThF 8:00am-9:20am	Bldg ZOP, Room 1243	Ades, I
	TuTh 9:30am-12:30pm	Bldg ZOP, Room 0207 (LAB)	
0202	MTuWThF 8:00am-9:20am	Bldg ZOP, Room 1243	Ades, I
	TuTh 9:30am-12:30pm	Bldg ZOP, Room 0205 (LAB)	

Prerequisites: ZOOL 201 or permission of department. Anatomy and physiology of the cardiovascular, respiratory, immune, digestive, urinary and reproductive systems. Not accepted as credit toward the zoology major

**ZOOL 210 Animal Diversity 4 credits; Grading Method: REG P-F/AUD**  
Meets USP Distributive Studies (B) Natural Sciences and Mathematics requirement.

0101	MTuWThF 9:00am-11:00am	Bldg ZOP, Room 0257 (LAB)	Linder, H
	TuTh 9:30am-12:30pm	Bldg ZOP, Room 0257 (LAB)	

A comparative study of the diversity of animal form and function, including analysis of structures and mechanisms which different organisms utilize to cope with similar requirements of life. Not open for credit to students who have credit in ZOOL 293

**ZOOL 213 Genetics 4 credits; Grading Method: REG P-F/AUD**

0101	MTuWThF 11:00am-12:20pm	Bldg ZOP, Room 1238	Imberski, R
	TuTh 9:00am-11:00am	Bldg ZOP, Room 0201 (LAB)	
0102	MTuWThF 11:00am-12:20pm	Bldg ZOP, Room 1238	Imberski, R
	TuTh 1:00pm-4:00pm	Bldg ZOP, Room 0201 (LAB)	

Prerequisites one semester of organic chemistry and one semester of a biological science. Composition, transmission, variation, function, and regulated expression of genetic material

**ZOOL 309H Honors Independent Study 1-4 credits; Grading Method: REG P-F/AUD**  
Permission of department required. Contact department to make arrangements.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ZOOL 318H Honors Research 1-2 credits; Grading Method: REG P-F/AUD**  
Permission of department required. Contact department to make arrangements.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ZOOL 319 Special Problems in Zoology 1-2 credits; Grading Method: REG P-F/AUD**  
Permission of department required. Contact department to make arrangements.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ZOOL 328G Selected Topics in Zoology: Biology of Aging 3 credits; Grading Method: REG P-F/AUD**  
Prerequisites: BIOL 105 or 101, or ZOOL 101 ZOOL 211 or equivalent strongly recommended

0101	MTuWThF 9:30am-10:50am	Bldg ZOP, Room 1238	Olek, A
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**ZOOL 328Z Selected Topics in Zoology: Field Research 1-3 credits; Grading Method: REG P-F/AUD**  
Permission of department required.

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ZOOL 609 Special Problems in Zoology 1-6 credits; Grading Method: REG/AUD**  
Permission of department required. Contact department to make arrangements

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ZOOL 799 Master's Thesis Research 1-6 credits; Grading Method: REG**  
Permission of department required

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

**ZOOL 899 Doctoral Dissertation Research 1-8 credits; Grading Method: REG**  
Permission of department required

0101	Time Arranged	Room Arranged	Staff
0201	Time Arranged	Room Arranged	Staff

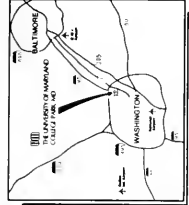
## ALPHABETICAL DIRECTORY OF BUILDINGS

024	Allegany Hall (Dorm)	C-4	Denton Hall (Dorm)	K-3	023	Kron Hall (Dorm)	D-4	061	Queen Anne's Hall (Dorm)	F-3	
108-110	Animal Barns	I-5	G Hall (College)	I-3	027	Kron Rd. Office Bldg. East	C-4	078	Reckord Army	E-5	
104	Animal Sciences Annex	H-5	Lehigh Hall (Dorm)	K-3	259	Laplata Hall (Dorm)	J-4	334-341	Relocatable Buildings	I-6	
042	Animal Sciences Bldg	H-5	Dining Hall (Elliptic)	J-4	071	Lee Bldg. and Graduate School	E-4	004	Ritchie Coliseum	D-5	
156	Animal Sciences Hall (Dorm)	G-3	064	Dorchester Hall (Dorm)	G-3	038	Le Frak Hall (Social Sciences)	E-3	080	Rossborough Inn (Faculty-Alumni Club)	
156	Apology	G-3	253	Easton Hall (Dorm)	K-3	201	Leonardtown Community Bldg	B-6	199	Sheep Barn	I-5
145	Architecture Bldg	F-2	066	Education Annex, West	E-3	238-249	Leonardtown Modular Residences	B-6	139	Shelley Fine Arts Bldg	D-3
146	Art-Sciences Bldg	F-3	254	Elkton Hall (Dorm)	H-6	055-285	Lord Casper Adams Administration Bldg	B-4	075	Shelley Lab	E-3
012	Asphalt Institute	H-6	256	Elroy Hall (Dorm)	H-6	046	Marie Mount Hall	E-4	013	Shuttle Bus Facility	F-4
115	A.V. Williams	H-6	088	Engineering Classroom Bldg.	G-5	046	Marie Mount Hall	E-4	014	Skinner Bldg	F-4
016	Baltimore Hall (Dorm)	H-6	089	Engineering Laboratory Bldg	G-6	084	Mathematics Bldg.	G-5	063	Somerset Hall (Dorm)	F-5
099	Bel Air Hall (Dorm)	J-5	093	Engineering Research Bldg.	H-6	035	McKeldin Library	F-3	170-176	Sorority Houses	B-3
160	Biology Bldg. (Education)	G-3	007	Fire and Rescue Institute (MD)	C-5	009	Memorial Chapel	D-4	082	St. Mary's Hall (Dorm)	E-3
161	Bird Stadium	I-3	007	Football Bldg	I-4	231	Microbiology Bldg	G-4	052	Stamp 2 Hall	G-4
146	Bird Stadium, Center Bldg	H-3	158	Football Bldg	C-3	052	Mill Bldg.	F-5	030	Talbot Hall (Dorm)	F-4
015	Calvert Hall (Dorm)	D-3	048	Francis Scott Key Hall	F-6	011	Motor Transportation Facility	C-4	043	Talbot Hall (Dorm)	D-4
096	Cambridge Hall (Dorm)	I-4	126-138	Fraternity Houses	C-4	002	North Hill Hall (Dorm)	E-3	141	Taxes Fine Arts Bldg	G-3
033	Campus Mail Facility	F-6	031	Garrett Hall (Dorm)	C-4	083	J. M. Patterson Hall	H-5	058	Temporary Classroom Bldg. AA	D-3
070	Caroline Hall (Dorm)	E-3	031	Garrett Hall (Dorm)	C-4	073	H. J. Patterson Hall	G-4	308	Temporary Computer Science	E-3
095	Center of Adult Education	D-2	237	Geology Bldg	F-6	002	Health Center	H-5	042	Turner Hall	E-3
345	Center of Adult Education	D-2	165	Golf Range	E-6	255	Physical Education, Recreation and Health Bldg.	C-4	042	Turner Hall, Milard E	E-3
001	Central Heating Plant	D-6	002	Greenhouses	E-6	002	Physical Education, Recreation and Health Bldg.	C-4	286-292	University College (Center of Adult Ed.)	G-2
098	Centerville Hall (Dorm)	J-5	014	Harford Hall (Dorm)	E-6	002	Physical Education, Recreation and Health Bldg.	C-4	005	University Hills Apts	G-1
090	Chemical and Nuclear Engineering Bldg	G-5	170	Health Center	C-4	006	Plant Operations and Maintenance Shops	E-5	023	Washington Hall (Dorm)	E-6
911	Chemistry Bldg. (Dorm)	C-4	147	Hornbake Undergraduate Library	F-4	113	Police Substation	E-6	089	Wicomico Hall (Dorm)	E-3
028	Charles Hall (Dorm)	H-4	028	Howard Hall (Dorm)	D-3	181-191	Poultry Bldgs.	C-3	081	Wind Tunnel	E-4
162	Classroom Bldg. (Dorm)	G-5	085	Institute for Physical Sciences and Technology	I-5	054	Premier Field House	F-3	051	Woods Hall (Dorm)	F-3
122	Computer and Space Sciences Bldg	G-3	034	Instructional Television Facility	G-5	021	Prince George's Hall (Dorm)	D-3	144	Zoology-Psychology Bldg	G-4
224	Computer and Space Sciences Bldg	G-3	034	International Television Facility	G-5						
122	Cumberland Hall (Dorm)	J-4	034	International Television Facility	G-5						
107	Dairy Science Annex	I-5	227	Journalism Bldg	I-4						
105	Dairy Science Office	I-6	227	Juni Hall	I-4						

## SCHEDULE OF CLASSES DIRECTORY OF BUILDING CODES

CODE	BUILDING	LOCATION	NUM
ASA	Animal Sciences Annex	I-6	104
ANS	Animal Sciences Bldg	H-5	142
ALB	Astronomy Laboratory Bldg	MET	219
APL	Apology Bldg	F-2	145
APC	Apology (Reckord)	H-2F	078
ARB	Art-Sciences Bldg	F-3	146
ASB	Beef Barn	I-5	110
BEY	Byrd Stadium	I-3	160
CHD	Chemical Engineering Bldg	H-5	090
CHM	Chemistry Bldg.	G-5	091
CLB	Chemistry Bldg.	G-5	162
CSA	Coal Storage and Utilities Bldg	G-3	224
DSS	Dairy Science Annex & Large Animal Classroom	I-5	107
EDA	Education Annex	E-3	066
EDU	Education (Benjamin)	G-3	143
EGL	Engineering Laboratory Bldg. (Martin)	G-6	089
EGR	Engineering Classroom (Martin)	G-5	088
EPL	East Poultry Lab Bldg	H-6	093
ENG	Engineering Research Bldg	H-6	094
GED	Geology Bldg	G-4	237
PKT	Practical Field House	F-3	054
PHH	Physical Education, Recreation and Health Bldg	J-5	255
RIT	Ritchie Coliseum	D-5	026
SDH	South Campus Dining Hall	E-3	026
SHB	Sheep Barn	I-5	109
SHM	Shoemaker Building	E-3	037
SHR	Shirer Lab	I-3	073
SKN	Skinner Bldg.	E-4	044
SNL	Shelley Fine Arts Union	E-4	044
SYM	Symons Hall	G-4	163
TAA	Temporary Classroom AA	D-3	076
TBA	To Be Arranged	D-3	053
TEE	Temporary Classroom EE	D-3	058
TLF	Taliferro Hall	E-3	043
TUR	Turner Lab	E-3	043
TTC	Turner Hall	E-3	042
TYG	Tydings Hall	G-3	042
WIS	Woods Hall	E-4	047
WTU	Wind Tunnel	E-4	047
ZOP	Zoology-Psychology Bldg	G-4	081
ZOP	Zoology-Psychology Bldg	G-4	144

Location "CRF" denotes Calvert Road Facilities.  
Location "MET" denotes Metzgeroff Road Facilities.

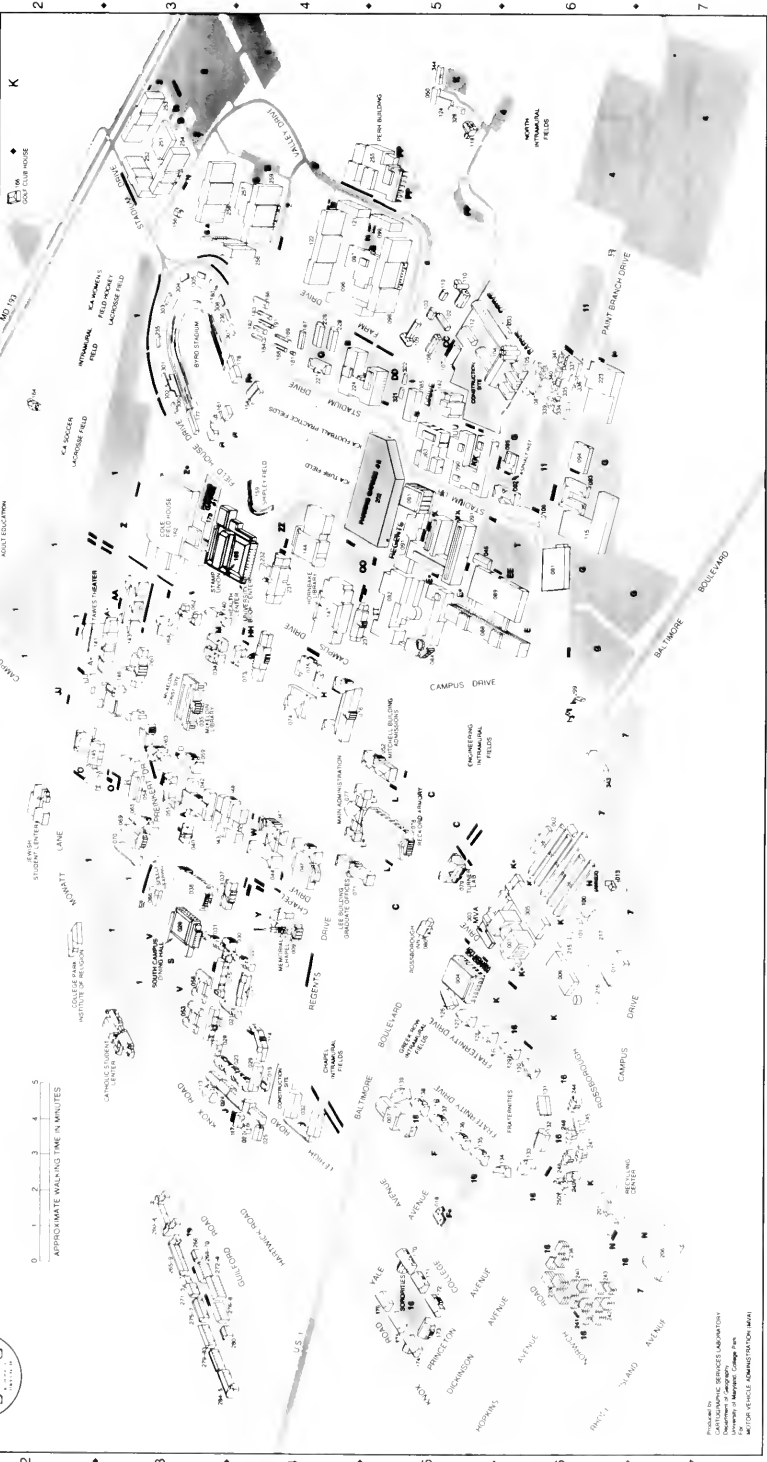


# THE UNIVERSITY OF MARYLAND, COLLEGE PARK CAMPUS PARKING MAP



- METERED PARKING
- HANDICAPPED PARKING
- MOTORCYCLE PARKING

0 1 2 3 4 5  
APPROXIMATE WALKING TIME IN MINUTES



Produced by:  
CAMPUS PARKING SERVICES LABORATORY  
University of Maryland, College Park  
MVA FOR VEHICLE ADMINISTRATION MAP

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SUMMER PROGRAMS  
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