

SUMMER SCHOOL

1969

THE UNIVERSITY OF MARYLAND BULLETIN



*The drawings in this catalog are the work of Paulette Myers,
a student in the 1968 Summer School.*

The provisions of this publication are not to be regarded as an irrevocable contract between the student and the University of Maryland. The University reserves the right to change any provision or requirement at any time within the student's term of residence. The University further reserves the right, at any time, to ask a student to withdraw when it considers such action to be in the best interests of the University.

SUMMER SCHOOL

1969

UNIVERSITY OF MARYLAND



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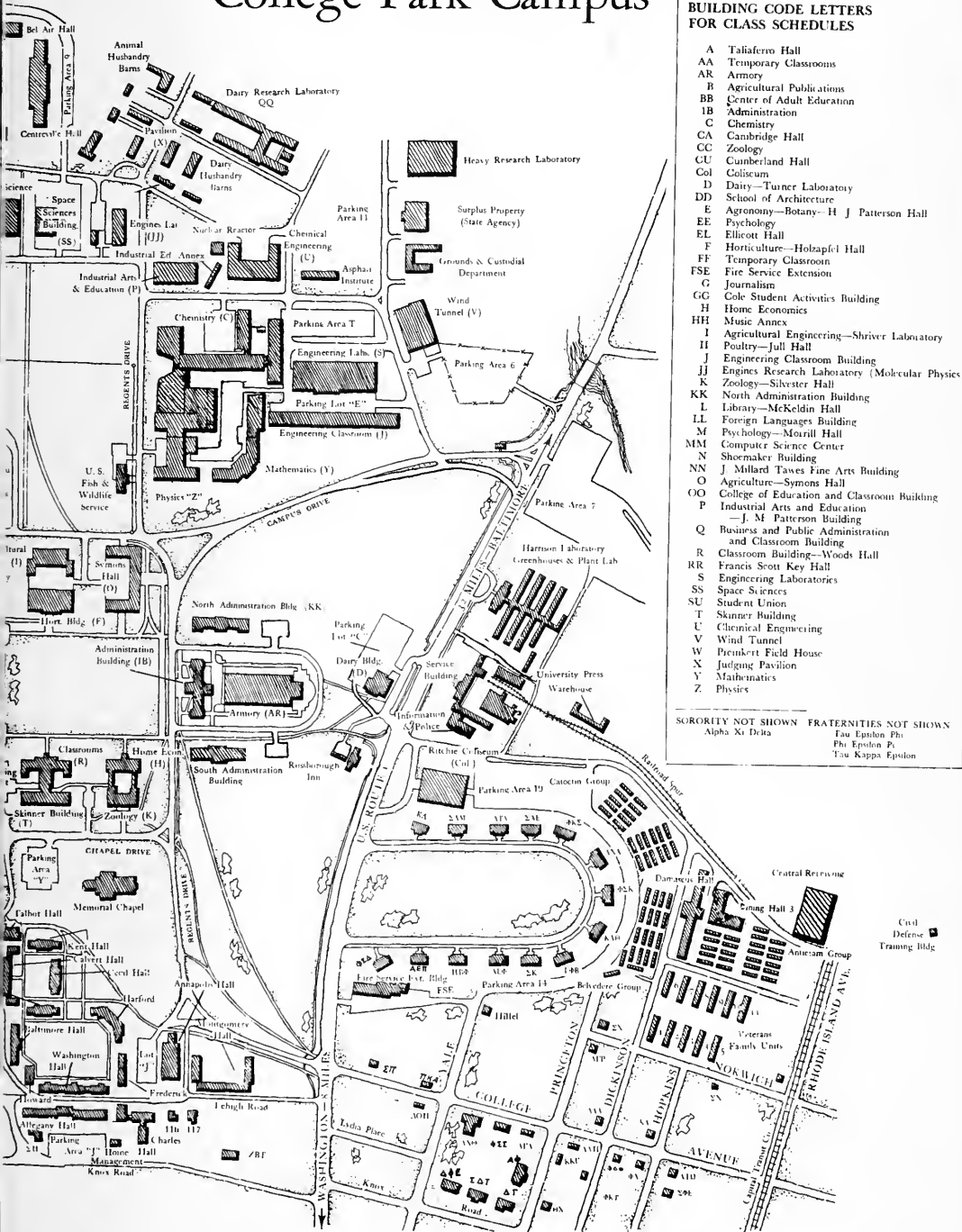
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UNIVERSITY OF MARYLAND College Park Campus



BUILDING CODE LETTERS FOR CLASS SCHEDULES

A	Taliaferro Hall
AA	Temporary Classrooms
AR	Armory
B	Agricultural Publications
BB	Center of Adult Education
IB	Administration
C	Chemistry
CA	Cambridge Hall
CC	Zoology
CU	Cumberland Hall
Col	Coliseum
D	Dairy—Turner Laboratory
DD	School of Architecture
E	Agronomy—Botany—H J Patterson Hall
EE	Psychology
EL	Ellicott Hall
F	Horticulture—Holzapfel Hall
FF	Temporary Classroom
FSE	Fire Service Extension
G	Journalism
GSE	College Student Activities Building
H	Home Economics
HH	Music Annex
I	Agricultural Engineering—Shriver Laboratory
II	Poultry—Jull Hall
J	Engineering Classroom Building
JJ	Engines Research Laboratory (Molecular Physics)
K	Zoology—Silverer Hall
KK	North Administration Building
L	Library—McKeldin Hall
LL	Foreign Languages Building
M	Psychology—Morrill Hall
MM	Computer Science Center
N	Shoemaker Building
NN	J. Milton Tawes Fine Arts Building
O	Agriculture—Symons Hall
OO	College of Education and Classroom Building
P	Industrial Arts and Education —J. M. Patterson Building
Q	Business and Public Administration and Classroom Building
R	Classroom Building—Woods Hall
RR	Francis Scott Key Hall
S	Engineering Laboratories
SS	Space Sciences
SU	Student Union
T	Skinner Building
U	Chemical Engineering
V	Wind Tunnel
W	Prentiss Field House
X	Judging Pavilion
Y	Mathematics
Z	Physics

SORORITY NOT SHOWN FRATERNITIES NOT SHOWN

Alpha Xi Delta Tau Epsilon Phi
Phi Epsilon Phi Phi Epsilon Psi
Tau Kappa Epsilon

University Calendar, 1969-1970

FALL SEMESTER, 1968

SEPTEMBER	9-13	Monday-Friday	Fall Registration
	16	Monday	Instruction begins
NOVEMBER	27	Wednesday	After last class—Thanksgiving recess begins
DECEMBER	2	Monday	8:00 a.m.—Thanksgiving recess ends
	20	Friday	After last class—Christmas recess begins

1969

JANUARY	6	Monday	8:00 a.m. Christmas recess ends
	14	Tuesday	After last class—end of instruction
	16-24	Thursday-Friday	Fall Semester Examinations

SPRING SEMESTER, 1969

FEBRUARY	3-7	Monday-Friday	Spring Registration
	10	Monday	Instruction begins
	22	Saturday	Washington's Birthday, holiday— No classes
MARCH	28	Friday	After last class—Spring recess begins
APRIL	8	Tuesday	8:00 a.m.—Spring recess ends
MAY	27	Tuesday	After last class—end of instruction
	29-June 6	Thursday-Friday	Spring Semester Examinations
	30	Friday	Memorial Day, holiday— No examinations
JUNE	7	Saturday	Commencement

SUMMER SCHOOL, 1969

JUNE	23-24	Monday-Tuesday	Summer Registration
	25	Wednesday	Instruction begins
JULY	4	Friday	Independence Day, holiday— No classes
AUGUST	15	Friday	Summer Session ends

SHORT COURSES, 1969

JUNE	16-20	Monday-Friday	College Week for Women
AUGUST	4-8	Monday-Friday	Maryland 4-H Club Week
SEPTEMBER	2-5	Tuesday-Friday	Fireman's Short Course

FALL SEMESTER, 1969

SEPTEMBER	8-12	Monday-Friday	Fall Semester Registration
	13	Saturday	Teacher Registration
	15	Monday	Instruction begins
NOVEMBER	26	Wednesday	After last class—Thanksgiving recess begins
DECEMBER	1	Monday	Thanksgiving recess ends
	19	Friday	After last class—Christmas recess begins

1970

JANUARY	5	Monday	Christmas recess ends
	14	Wednesday	Pre-exam Study Day
	15-22	Thursday-Thursday	Fall Semester examinations

SPRING SEMESTER, 1970

FEBRUARY	2-6	Monday-Friday	Spring Semester Registration
	7	Saturday	Teacher Registration
	9	Monday	Instruction begins
MARCH	26	Thursday	After last class—Spring recess begins
APRIL	6	Monday	8:00 a.m.—Spring recess ends
MAY	27	Wednesday	Pre-exam Study Day
	28-June 5	Thursday-Friday	Spring Semester Examinations
JUNE	1	Monday	Memorial Day
	6	Saturday	Commencement

SUMMER SESSION, 1970

JUNE	22-23	Monday-Tuesday	Summer Registration
JUNE	24	Wednesday	Instruction begins
AUGUST	14	Friday	Summer Session ends

SHORT COURSES, 1970

JUNE	15-18	Monday-Thursday	College Week for Women
AUGUST	3-7	Monday-Friday	Maryland 4-H Club Week
SEPTEMBER	8-11	Tuesday-Friday	Fireman's Short Course



ADMISSION

1. Undergraduate day students or graduate students who were registered on the College Park Campus with the University during the Spring Semester and who are in good academic standing at the end of the Spring Semester need only to appear for registration at the time indicated on page 11.
2. Undergraduate students (except Maryland elementary and secondary school teachers who are previously admitted special undergraduate students) who were not registered as day students on the College Park Campus during the preceding semester must be readmitted or reinstated. Applications for readmission or reinstatement may be obtained from the Admissions Office and should be *filed 30 days in advance of registration*. Maryland elementary and secondary school teachers who were previously admitted as special undergraduate students, who retain this classification, and who are in good academic standing need only to appear for registration at the time indicated on page 11.
3. All new undergraduate students, special students, and students admitted previously as special students only for summer attendance must file an application with the Admissions Office by June 1, 1969, and must have been admitted to the University before registering for classes.
4. All new graduate students must file an application and all supporting records with the Office of the Vice President for Graduate Studies and Research by May 15, 1969, and must have been admitted to the University before registering for classes.

REGISTRATION

1. All students report to the Preinkert Field House according to the alphabetical schedule on page 11 of this catalog.
2. After securing registration materials at the Preinkert Field House, students report to their adviser and/or dean. Approval of student's program must be secured from both the adviser and dean. *Graduate students in the College of Education must secure the approval of the Dean of the College of Education as well as the Vice President for Graduate Studies and Research.*
3. After their programs are approved, students report to the Armory where registration is completed.

SUMMER SCHOOL CALENDAR, 1969

SUMMER SCHOOL, 1969

JUNE	23-24	Monday-Tuesday	Registration, Summer Session
	25	Wednesday	Instruction begins for courses on daily schedule.
	26	Thursday	Instruction begins for courses on M.T.Th.F. schedule.
JULY	4	Friday	Independence Day Holiday
AUGUST	1	Friday	Six week courses end.
	15	Friday	Eight week courses end.

SHORT COURSES

JUNE	16-20	Monday-Saturday	College Week for Women
AUGUST	4-8	Monday-Friday	4-H Club Week
SEPTEMBER	2-5	Tuesday-Friday	Firemen's Short Course

REGISTRATION SCHEDULE SUMMER SCHOOL 1969



MONDAY AND TUESDAY
JUNE 23 AND 24, 1969

To expedite registration, students have been grouped on the basis of the first letters of the last name. No student will be permitted into Preinkert Field House until the appropriate time, as listed below.

	<i>Monday</i>	<i>Tuesday</i>
8:15	PI-RE	DO-EZ
8:40	RF-RZ	FA-FZ
9:05	SA-SGL	GA-GRL
9:30	SGM-SS	GRM-HD
9:55	ST-TD	HE-HR
10:20	TE-V	HS-J
10:45	WA-WH	KA-KR
11:10	WI-Y	KS-LI
11:30	Z-BAL	LJ-MA
1:00	BAM-BL	MB-MN
1:25	BM-BT	MO-NI
1:50	BU-CH	NJ-PH
2:15	CI-CO	
2:40	CP-DN	

Preinkert Field House, Packet Distribution—Monday 8:15 to 3:45 only
Tuesday 8:15 to 3:00 only

Armory, Registration Processing—8:30 to 4:45 only

Since Social Security Numbers are now used to identify registration materials and student records, it is essential that each student bring his Social Security Card or Number with him for ready reference.

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GENERAL COMMITTEE ON STUDENT LIFE, WELFARE, RIGHTS AND RESPONSIBILITIES

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 FINANCIAL AIDS AND SELF-HELP
 STUDENT PUBLICATIONS AND COMMUNICATIONS
 RELIGIOUS LIFE
 STUDENT HEALTH AND SAFETY
 STUDENT DISCIPLINE

ADMISSIONS AND SCHOLASTIC STANDING

INSTRUCTIONAL PROCEDURES

SCHEDULING AND REGISTRATION

PROGRAMS, CURRICULA AND COURSES

FACULTY RESEARCH

PUBLIC FUNCTIONS AND COMMENCEMENTS

LIBRARIES

UNIVERSITY PUBLICATIONS

INTERCOLLEGIATE COMPETITION

PROFESSIONAL ETHICS, ACADEMIC FREEDOM AND TENURE

APPOINTMENTS, PROMOTIONS AND SALARIES

FACULTY LIFE AND WELFARE

MEMBERSHIP AND REPRESENTATION

COUNSELING OF STUDENTS

BALTIMORE CITY CAMPUS AFFAIRS

ADJUNCT COMMITTEE: BALTIMORE CITY CAMPUS STUDENT AFFAIRS

THE FUTURE OF THE UNIVERSITY



CLODUS R. SMITH, B.S., M.S., Ed.D.
DIRECTOR OF THE SUMMER SCHOOL

The Summer School

CLODUS R. SMITH, *Associate Professor of Agricultural and Extension Education and Director of the Summer School*

B.S., Oklahoma State University, 1950; M.S., 1955; Ed.D., Cornell University, 1960.

SHEROD M. COOPER, JR., *Associate Professor of English and Assistant Director of the Summer School*

B.S., Temple University, 1951; M.A., 1953; Ph.D., University of Pennsylvania, 1963.

JOHN W. CHURCHILL, *Assistant Professor of Recreation and Director of the Summer School Recreation Program*

B.S., State University of New York, Cortland, 1958; M.S., University of Illinois, 1959; Ph.D., University of Wisconsin, 1968.

PAUL P. TRAVER, *Associate Professor of Music and Director of The Summer Festival of Fine Arts*

B.Mus., Catholic University, 1955; M.Mus., 1957; D.M.A., Stanford University, 1967.

The Summer School at the University of Maryland makes available year-round educational opportunities for undergraduate and graduate students who wish to fulfill degree requirements in the shortest length of time, who wish to take courses that they cannot fit into their academic year schedules, or who need to make up deficiencies or test their ability to do college work. The Summer School also seeks to broaden and vary the instructional program by appointing outstanding visiting lecturers and to stimulate students' interests by providing an academic environment which includes a diversified cultural and recreational program. To meet specific educational needs, the Summer School offers workshops and institutes for school personnel and other groups.

The extensive and varied course offerings, lectures, special institutes, and workshops are planned jointly by the Department Heads, Deans, and the Director of the Summer School. The courses offered are regular University courses taught by members of the faculty or visiting lecturers of outstanding ability.

THE SUMMER SCHOOL

224 North Administration Building
University of Maryland
College Park, Maryland 20742

Telephone (301) 454-3347/8

Academic Information

Terms of Admission

All Summer School students new to the College Park Campus of the University must be officially admitted. This applies to all non-degree as well as degree candidates.

Undergraduate and Special Students

A student seeking a bachelor's degree in any undergraduate college, who has not been previously admitted to the University, must file application with the Director of Admissions not later than June 1, 1969. To secure an application form, please fill out and return the request for application for undergraduate admission found in the back of this *Bulletin*.

A student who already has a bachelor's degree and who either does not wish graduate credit or does not meet requirements for admission to the Graduate School may be admitted as a Special Student to the undergraduate college consistent with his major interests. He must file application with the Director of Admissions no later than June 1, 1969. Credit so obtained through the College of Education is ordinarily accepted for renewal of teaching certificate. A Special Student may not take courses numbered 200 or above. To secure an application form, please follow the directions in the paragraph above.

Freshman Admission

Admission from secondary school is based upon evidence indicating the applicant's probable success in the program of his choice. By the word "evidence" the University means that:

1. The applicant's scholastic average in college preparatory subjects during the last two years in high school has been satisfactory, and he ranks in the top half of his graduating class;
2. The applicant's high school principal has recommended him for admission;
3. The applicant will have graduated from high school before his first registration with the University;
4. The applicant has successfully completed the high school subjects required for the college and curriculum for which he is applying (the recommended program includes three or four years of college preparatory mathematics);
5. The applicant has completed the Scholastic Aptitude Test and has requested that the results be submitted to the Counseling Center of the University.

Transfer Student Admission

An applicant must be in good standing as to scholarship and character to be considered for admission. Applicants for transfer are required to have a minimum cumulative average of "C" (2.0) in all previous college work.

Graduate Students

Application for admission to the Graduate School and all supporting academic records must be in the office of the Vice President for Graduate Studies and Research by May 15, 1969. To secure an application form, please fill out and return the request for application for graduate admission found in the back of this *Bulletin*.

TRANSFER CREDIT: TO ANOTHER INSTITUTION. The student who wishes to transfer credit to another institution should submit an application on which he writes "For Transfer Only." With the application he should submit a letter from the graduate dean of the institution in which he is enrolled as a degree student to the Vice President for Graduate Studies and Research, University of Maryland, permitting him to take course work during the summer at the University.

TRANSFER CREDIT: TO THE UNIVERSITY OF MARYLAND. Credit not to exceed six semester hours for course work at other recognized institutions may be applied towards the master's degree but only when such course work has been taken after the student has been admitted to the University of Maryland Graduate School. Before taking course work for transfer, the student must have the approval of his adviser, the head of his major department, and the Vice President for Graduate Studies and Research. Normally, approval may be given only for courses which are not offered by the University of Maryland during the period of the student's attendance. The request for transfer of credit shall be submitted to the Graduate Council for approval when the student applies for admission to candidacy. The candidate is subject to final examination by this institution in all work offered for the degree.

SPECIAL NON-DEGREE CREDIT. The student who already has a master's degree and does not wish to pursue a doctoral program may submit an application marked "Non-Degree" and with it an official transcript of all previous undergraduate and graduate study. If the student later desires to embark on a doctoral program, the credit earned in Special Non-Degree status may, at the discretion of the major adviser, be used in a doctoral program.

DEGREE CREDIT. The student who wishes to pursue either a master's or doctoral program must submit with his application official transcripts of all work taken in institutions of higher education. The applicant is subject to admission requirements of the Graduate School and of the department in which he hopes to pursue his graduate work.

Academic Credit

The semester hour is the unit of credit. During the summer session a course meeting five times a week for six weeks or four times a week for eight weeks,

each requiring the normal amount of outside work, is given a weight of three semester hours. 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 courses. All courses offered in Summer School are applicable toward the appropriate degree provided they are included in the student's program as planned with his adviser.

All students will receive an official grade report specifying the amount and quality of work completed.

Marking System

The following symbols are used for marks: A, B, C, and D—passing; F—Failure; I—Incomplete. Mark A denotes superior scholarship; B, good scholarship; C, fair scholarship; and D, passing scholarship. The mark of "I" (incomplete) is exceptional. Complete regulations governing marks are printed in the University's *General and Academic Regulations*.

Maximum Load

Students may earn credit at the discretion of their respective advisers in accordance with the following guide lines:

UNDERGRADUATES

Students enrolled only in courses of eight-week duration may earn eight to ten credits.

Students enrolled only in courses of six-week duration may earn six to eight credits.

Students enrolled in combinations of six- and eight-week courses may earn seven to nine credits.

GRADUATE

Students enrolled exclusively in courses of eight-week duration may earn a maximum of eight credits.

Students enrolled in courses of six-week duration may earn a maximum of six credits.

Students enrolled in combination of six- and eight-week courses may earn a maximum of seven credits.

Summer Graduate Work

Appropriate courses offered by the Summer School may be counted toward the various doctoral and master's degree programs. A full year of residence or the equivalent is the minimum requirement for each degree. The bulletin of the Graduate School contains a full description of the degrees offered and the requirements.

For graduate students pursuing doctoral work, the Summer School provides French 0 and German 0 to help them prepare for the foreign language examinations. Please contact the Graduate School for the exact dates for application and examination.

Special regulations governing graduate work in Education and supplementing the statements contained in the Graduate School Announcements may be obtained from the College of Education. Students seeking the master's degree as a qualification for a certificate issued by the Maryland State Department of Education or any other certifying agency should consult the appropriate bulletin for specific requirements.

All students desiring graduate credit, whether for meeting degree requirements, for transfer to another institution, or for any other purpose, must be regularly matriculated and registered in the Graduate School.

Candidates for Degrees

All students who expect to complete requirements for degrees during the summer session should make application for diplomas at the Office of the Registrar by July 11, 1969.

General Education Program

The University's minimum requirement in general or liberal arts studies, incorporated in all undergraduate curricula, is known as the General Education Program. The courses which may be elected under the program are designed to acquaint the student with the basic concepts and methods of a number of academic disciplines and to provide a broad foundation upon which the entire educational experience can be correlated.

The requirement consists of 34 semester hours of credit distributed over six general areas: 9 credits in English composition and literature; 6 credits in history; 6 credits chosen from at least two fields of the social sciences; 7 credits in the biological and physical sciences; 3 credits in mathematics; 3 credits in fine arts or in philosophy. In order to permit the student the widest possible choice, a number of course options are available in each of the fields except English. In addition, two semesters of physical education and a course in health education are required of all undergraduates.

Specific courses which may be used to satisfy these general education requirements are administered by four of the campus colleges; the various offerings are coordinated by a Director of the General Education Program for the University. Greater detail may be found in the publication, *General and Academic Regulations*.

Advanced Placement Program

Students entering the University from secondary school 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 Director of Admissions and Registrations, College Deans, or the Director of General Education. Additional information is presented in the publication *An Adventure in Learning*. For detailed information about examinations and procedures in taking them, write to the Director of Advanced Placement Program, College Entrance Examination Board, 475 Riverside Drive, New York, New York 10027.

General Information

Registration

Every student planning to register for one or more courses must be admitted to the University, regardless of his desire to become a degree or non-degree student. See information on page 22 on Admissions.

Day division students currently enrolled in the University on the College Park Campus as undergraduates or graduates who are presently, and at the conclusion of the Spring 1969 Semester, in good academic standing may register for the summer session without further application. All new graduate students must obtain admission to the University from the Graduate School before registration.

Registration for *all* undergraduate and graduate day division students will take place in accordance with the Registration Schedule printed on page 11 of this catalog. No student will be permitted to begin registration before the time listed in the Registration Schedule. Registration materials will be distributed in Preinkert Field House according to the alphabetical schedule on Page 11 of this catalog. *All students must secure registration materials at the Preinkert Field House before going to deans or advisers. Registration materials are not available from offices of deans or advisers. Since Social Security numbers are now used to identify registration materials and student records, it is essential that each student bring his Social Security Card or Number with him for ready references.* Registration cards must be approved by both the student's adviser and dean. Graduate students must secure the approval of the Vice President for Graduate Studies and Research. Graduate students in *The College of Education* must secure the approval of the Dean, College of Education, as well as the Vice President for Graduate Studies and Research.

After approval, registrations are completed at the Armory where students secure section assignments, receive bills, pay fees, and submit all forms to the Registrar's representatives. *Until all completed forms are submitted to the Registrar's representatives and fees paid, registration is neither complete nor official.*

Students may register in "late registration" at the Registrar's Office on June 25. After June 25, exceptional cases may be registered only after approval of the appropriate dean. The late registration fee, charged on and after June 25, is \$20.00.

Class Periods

Unless otherwise noted, classes during the 1968 summer session will meet on the following time schedule:

8:00 — 9:20
 9:30 — 10:50
 11:00 — 12:20
 12:30 — 1:50
 2:00 — 3:20
 3:30 — 4:50

Weekly Class Schedule

6-week classes

- 2-credit courses meet 4 days as indicated in the bulletin.
- 3-credit courses meet daily.
- 4-credit courses meet daily and include multiple periods for laboratory.

8-week classes

- 2-credit courses meet M.W.F.
- 3-credit courses meet M.T.Th.F.
- 4-credit courses meet daily, plus laboratory time.

Definition of Resident and Non-Resident Student

Students who are minors are considered to be resident students if at the time of their registration their parents have been domiciled in the State of Maryland for at least six months.

The status of the residence of a student is determined at the time of his first registration in the University and may not thereafter be changed by him unless, in the case of a minor, his parents move to and become legal residents of Maryland by maintaining such residence for at least six months. However, the right of the minor student to change from a non-resident status to resident status must be established by him prior to the registration period set for any semester or session.

Adult students are considered to be residents if at the time of their registration they have been domiciled in Maryland for at least six months, provided such residence has not been acquired while attending any school or college in Maryland or elsewhere. Time spent on active duty in the armed services while stationed in Maryland will not be considered as satisfying the six-months period referred to above except in those cases in which the adult was domiciled in Maryland for at least six months prior to his entrance into the armed service and was not enrolled in any school during that period.

The word "domicile" as used in this regulation shall mean the permanent place of abode. For the purpose of this rule only one domicile may be maintained.

Tuition and Fees

ALL STUDENTS

Auxiliary facilities fee	\$ 4.00
Summer Vehicle Registration Fee—each vehicle	5.00
Recreation fee	3.00

UNDERGRADUATE STUDENTS

Tuition per credit hour	\$20.00
Nonresident fee	15.00
Per session. Must be paid by all students who are not residents of Maryland.	
Application fee	10.00

GRADUATE STUDENTS

Application or matriculation fee	10.00
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Payable only once upon admission. Every student must be admitted.

Tuition per credit hour:

Resident Student	34.00
Non-resident Student	40.00
Maryland Teacher	30.00

A Maryland teacher is defined for fee assessment purposes as any full-time professional employee of a school or college located in the State of Maryland and accredited by the State Department of Education. The teacher must be currently under contract or on official leave for the purpose of taking full-time graduate work at the University of Maryland. Teachers enrolling in the summer session will be considered as being currently under contract provided that they have a valid contract for the academic year immediately following the summer session.

Contract status must be established anew at each registration by the submission of a letter, or other appropriate document, provided by the Board of Education of the city or county or principal officer of the school or college in which the teacher is employed. If the letter or document is needed by the teacher for other purposes, he must supply a photocopy which will be retained by the registration clerk. The necessary letter, document, or photocopy must be provided at the time of registration.

Testing fee (new graduate students in Education only)\$ 5.00

MISCELLANEOUS INFORMATION

Late registration fee, \$20.00, charged on and after June 25.

Graduate Language Examination Fee, \$10.00

A fee of \$5.00 is charged for each change in program after June 27. If such change involves entrance to a course, it must be approved by the instructor in charge of the course entered. Courses cannot be dropped after July 11. All changes must be approved by the appropriate dean and filed in the Office of the Registrar.

The graduation fee is \$10.00 for bachelor's and master's degrees, and \$50.00 for doctoral degrees. A late application fee of \$10.00 will be assessed against students who fail to apply for graduation within the first three (3) weeks of a summer session (on or before July 11). Students who apply after the end of the fourth week (after July 18) of a summer session will be required to wait for the next academic semester in order to obtain a diploma.

Students enrolled in Applied Music will be assessed a \$40.00 fee for each course taken, in addition to regular credit hour fees.

Mathematics I—Fee \$45.00 in addition to regular credit hour fees.

Fees for Auditors and courses taken for audit are the same as those charged for courses taken for credit at both the undergraduate and graduate levels.

Service Charge for Dishonored Check\$20.00

Smaller service charges apply to checks under \$100.00

WITHDRAWAL AND REFUND OF FEES

Any student compelled to leave the University at any time during the summer session must secure the Application for Withdrawal form from the office of his dean and file it in the Office of the Registrar, bearing the proper signatures. If this is not done, the student will not be entitled, as a matter of course, to a certificate of honorable dismissal, and will forfeit his right to any refunds to which he would otherwise be entitled. The date used in computing refunds is the date the Application for Withdrawal is filed in the Office of the Registrar. In the case of a minor, official withdrawal will be permitted only with the written consent of the student's parent or guardian.

With the exception of board charges and the matriculation fee, students withdrawing from the University will receive a refund of all charges in accordance with the following schedule:

<i>Period From Date Instruction Begins</i>	<i>Refundable Percentage</i>
One week or less	70%
Between one and two weeks	50%
Between two and three weeks	20%
After three weeks	0

All students will be given a 70% refund of Credit Hour Fees for courses dropped after the close of the official registration period but before 4:30 p.m. on June 27.

Living Accommodations and Food Service

Residence Hall accommodations are available only to students who are enrolled in the Summer School or authorized workshops and conferences. When students terminate their academic association with the University, they also terminate their room contract. Listings of off campus rooms, apartments, and houses are available in the Off Campus Housing Office, North Administration Building.

The facilities of the residence halls typically include study rooms, lounges, recreation centers, laundry equipment, and public telephones. The typical student room is for double occupancy and is furnished with beds, chests, desks, and chairs. Each resident supplies other essential items such as study lamp, waste basket, laundry bag, pillow, linen, and other accessories. The Gordon-Davis Linen Supply Company, 1620 North 11th Street, Philadelphia, Pennsylvania 19122, is authorized to offer all resident students a complete weekly linen rental service. Additional information may be obtained from the company, or arrangements for linen service can be made after arrival.

All students are held responsible for compliance with University and residence regulations.

Residence Hall accommodations are available at the following costs, on the basis indicated:

<i>Regular Residence Halls</i>	<i>Double Occupancy</i>	<i>Single Occupancy</i>
Six week session	\$66.00	\$ 90.00
Eight week session	\$88.00	\$120.00

Weekly rates of \$11.00 for double room and \$15.00 for single room will be

charged to students enrolled in workshops and other special courses of less than six weeks' duration.

No room deposit is required for the summer session; however, the applicable room charge is payable in full at registration. No refunds of room charges will be made after the third week of classes.

Early application for a reservation is advisable. Only those who have made application and received a confirmation of room reservation can be assured that rooms are available for them upon their arrival. To secure an application for campus residence, please complete and return the Request for Housing Application found in the back of this *Bulletin*. It is impossible to honor all room assignment requests. Since most of the rooms in the residence halls are double rooms, there is no guarantee that a request for a single room can be granted. Applicants will be notified by mail after June 1 of the time and place to receive their room assignment. Do not call or write prior to this date. The applicant beginning classes on Wednesday, June 25, must claim his room in his residence hall by noon on that date. The applicant beginning classes at other times must claim his room by reporting to the University Housing Office between 8:30 a.m. and 4:30 p.m. Otherwise the specific room reservation will be cancelled.

The University residence halls will open for occupancy at 10:00 a.m. Sunday, June 22. Students will be expected to move out of the residence halls before 7:00 p.m. on the day after their classes end. The six week session ends on August 1, 1969. The eight week session ends on August 15, 1969.

Residence hall assignments for the summer in no way affect housing assignments for the following academic year. Room assignment is for the summer session only. If a student is to be a full-time, single, undergraduate student during the regular academic year and wishes to apply for campus residence, he must apply through the University Housing Office.

The following steps are suggested for shipping baggage: (1) address to: Central Receiving, University of Maryland, College Park, Maryland 20742, (2) be sure all postage, shipping, and customs duties are prepaid (shipments will not be accepted unless all charges are prepaid), and (3) upon arriving at the University, call for luggage at the Central Receiving Warehouse. The University does not make delivery to the residence halls.

Food Service is available to all students under the following options:

- (a) Cafeteria style with cash payment for each individual meal.
- (b) On a Food Plan basis payable in full at registration as follows:
 - \$100 for the Six Week Session
 - \$133 for the Eight Week Session

The Food Plan basis cannot be purchased for less than 6 weeks. The Food Plan includes three meals a day, Monday through Friday. Meals will be available on a cash basis on Saturday and Sunday.

Refund of the Food Plan charges will be made only in the case of withdrawal from the University or the residence halls. This refund will be made on a pro rata weekly basis computed from the date the student reports to the Office of the Internal Auditor and cancels his Food Plan. No refund of board will be granted unless the student cancels his Food Plan with the Auditor.

Student Health

The University Infirmary, located on the campus near the Student Union, provides medical service for the students in the summer session who are taking courses on the College Park Campus. Students who are ill should report promptly to the University Infirmary in person. Serious emergencies may be reported by phone to Ext. 3444, or if transportation for emergency is needed, call 3555 on campus phone or 454-3555 on a pay phone. Doctors' office hours are: week days, 9:00 a.m. to 4:00 p.m.; week ends, 10:00 a.m. to 11:00 a.m. Nurses are on duty 24 hours each day, and doctors are on call for serious conditions after regular office hours.

Automobile Registration

All students are required to register their automobiles at the time of registration for classes. Students must bring the state or District of Columbia automobile registration card containing the automobile tag number. Parking stickers for automobiles previously registered for the 1968-1969 academic year will be honored for the 1969 summer session. For automobiles operated by new students or non-registered cars operated by continuing students, there will be a five dollar (\$5.00) registration fee.

For use of students, staff members, and employees, several parking lots are provided. Students may park in lots 1, 2, 3, 7, and 11 during the summer session with a registered car. All other lots are reserved for faculty and staff members. Visitor wells are reserved for visitors and guests between the hours of 8:00 a.m. and 5:00 p.m. The University Regulations forbid the parking of cars on any campus road. These regulations are enforced by the Campus Police Department.

If you do not intend to operate a vehicle on the College Park Campus during the 1968-1969 academic year or summer session, you are required to sign a non-driver declaration.

Libraries

Libraries of the University are located on the College Park and Baltimore campuses. They consist of the general University Library (the Theodore R. McKeldin Library), the Engineering and Physical Science Library, and the Chemistry Library in College Park; and the Health Sciences Library and the Law Library in Baltimore. The libraries have a total book collection of over 1,000,000 cataloged volumes and currently receive more than 10,000 periodicals and newspapers.

In addition to the total of cataloged volumes cited above, the College Park libraries contain over 140,000 U.S. government and United Nations documents, 350,000 negatives and prints, 2,600 film strips, 6,000 slides, and thousands of phonograph records, maps, and technical reports.

Bibliographical facilities of these libraries include, in addition to the card catalogs, printed catalogs of other libraries, e.g., British Museum, Bibliotheque Nationale, and Library of Congress, as well as trade bibliographies of foreign countries, special bibliographies of subject fields, and similar research aids.

Study carrels in the Theodore R. McKeldin Library are available to faculty members and graduate students whose study and research require extensive

use of library materials. Lockers are likewise available for assignment to graduate students. Facilities for reading microtext materials, for typing, and for copying are also provided. Interlibrary loan service from other institutions is provided for those engaged in research.

University Bookstore

For the convenience of students, the University maintains a University Bookstore in the Student Union Building, where students may obtain at reasonable prices textbooks, stationery, classroom materials, and equipment. The Bookstore operates on a cash basis.

For Additional Information

Detailed information concerning fees and expenses, scholarships and awards, student life, and other material of a general nature, may be found in the University publication titled *An Adventure in Learning*. This publication may be obtained on request from the Catalog Mailing Room, North Administration Building, University of Maryland at College Park. A detailed explanation of the regulation of student and academic life may be found in the University publication titled *University General and Academic Regulations*. This is mailed in September and February of each year to all new undergraduate students. Requests for course catalogs for the individual schools and colleges should be directed to the deans of these respective units, addressed to:

COLLEGES LOCATED AT COLLEGE PARK

Dean
(College in which you are interested)
The University of Maryland
College Park, Maryland 20742

PROFESSIONAL SCHOOLS LOCATED AT BALTIMORE

Dean
(College in which you are interested)
The University of Maryland
Baltimore, Maryland 21201



Special Summer Activities

As an integral part of its summer program, the University offers a Summer Lecture Series; Summer Festival of Fine Arts; Summer Recreation Program; institutes supported by the National Science Foundation, National Defense Education Act, and other granting organizations; and specialized workshops. Information about these events is provided below.

The Summer Lecture Series

A series of lectures for members of the University community is planned for the 1969 summer session. A committee of the faculty selects the theme for the lectures and invites the speakers, usually distinguished scholars, national leaders, or important state or University officials. The lectures thus become a contribution to the social and cultural offerings of the summer session. They are scheduled for the convenience of the students and faculty in air conditioned facilities on the College Park Campus.

1969 Summer Festival of Fine Arts

The 1969 Summer Festival of Fine Arts, under the direction of Dr. Paul Traver, will present for the campus and the community a series of programs in the fields of art, dance, drama, film, music, and television. Outstanding performers in these media will appear on the College Park Campus. To make it easier for students to attend the events, the majority of programs will be scheduled for evening and weekend hours and will be located in the air-conditioned J. Millard Tawes Fine Arts Center. The Festival will offer the summer community a culturally enriched atmosphere in which academic studies may be more pleasantly pursued.

Summer Recreation Program

To promote and coordinate a summer program of leisure time activities for the campus community, the Summer School sponsors a Summer Recreation Program directed by Dr. John Churchill. This program includes such activities as square dancing; recreational swimming; an art workshop; bridge, chess, and bowling tournaments; softball leagues; and a variety of others. The Summer Recreation Office also assists the promotion and coordination of programs offered by other units. Special services such as social hours or special swimming sessions may be requested by any group. Possession of a University of Maryland staff identification card or validated student transaction card allows an individual to participate in the Summer Recreation Program. A group fee may be charged to cover unusual expenses.

Institutes and Workshops

Communication regarding institutes and workshops should be addressed

to the director, as indicated, University of Maryland, College Park, Maryland 20742.

All workshop and institute students must be admitted to the University according to procedures described on pages 22 and 23.

INSTITUTES

NATIONAL SCIENCE FOUNDATION

Institute for College Teachers of Physics

Dr. Richard Mead, Department of Physics and Astronomy

Institute for High School Teachers of Biology

Dr. J. David Lockard, College of Education and Botany

Institute in Mathematics for Elementary School Teachers

Dr. James H. Henkelman, Mathematics Department

Institute for Teachers of Mathematics in Junior High School

Dr. Richard A. Good, Mathematics Department

WORKSHOPS

COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION

MANAGERIAL MATHEMATICS WORKSHOP (BSAD 000) 0 credit (billed for 3 credit hours)

June 26-Aug. 15; M.-Th., 7:00-9:30 p.m.; Q-27.

Mr. Theodore Mattheiss, Director.

This non-credit course in basic mathematics is designed to present the mathematical concepts necessary for Economic, Managerial, and Systems Analysis. Included will be work on elementary matrix algebra, elementary probability theory, mathematical relationships, and optimization of functions of one variable (i.e., differential calculus).

COLLEGE OF EDUCATION

ANALYSIS AND MODIFICATION OF TEACHING BEHAVIOR (EDUC 189-G) 3 credits

June 25-July 11; daily, arranged.

Dr. David Young, Director.

This workshop is designed for college and school personnel engaged in pre-service or in-service teacher education (including present and prospective co-operating teachers) and teachers interested in procedures for self-appraisal of performance. Participants will study and use systems for the analysis of teaching, e.g. Interaction Analysis and OSCAR 5V; develop *performance criteria* for selected dimensions of teacher behavior; study and use procedures for modifying teaching behavior, e.g. Micro-teaching, video-taped models, simulation, video-tape feedback, and develop performance criteria for the supervisory act. Participants will teach (micro-teach) elementary and secondary pupils and practice supervisory skills during the workshop.

EDUCATION IN FAMILY FINANCE (EDSE 114-115) 6 credits

June 25-Aug. 1; daily, 8:30-3:30; Q-27.

Prof. C. Raymond Anderson, Director.

The purpose of this workshop for secondary school teachers and administrators is to develop the ability and interest in teaching personal and family economic factors in existing secondary school courses. There will be lectures,

discussions, group activities, field trips, and the preparation of teaching materials.

EUROPEAN TRAVEL SEMINAR (EDEL 189-K) 6 credits
June 25-Aug. 8.

Dr. Wayne L. Herman, Director.

The seminar offers an opportunity to travel and study abroad this summer. The tour will cover major cities, such as Oslo, Stockholm, Amsterdam, Nice, and Madrid, with visits to historic buildings, leading museums and galleries, as well as attendance at concerts, theater, and the ballet. During the six week seminar, students will be free to make their own travel arrangements on weekends as well as during a designated period at the end of the first month of the tour, for special interest activities.

HUMAN DEVELOPMENT—Two-Week Workshops

Dr. Albert Gardner, Director.

CHILD STUDY LEADERS (EDHD 189-A) 2 credits
June 25-July 3; daily, 8:00-3:00.

Section 1—J-111.

Section 2—J-140.

This workshop is designed to prepare teachers and selected personnel for leadership roles in the in-service education program on the Direct Study of Children and Youth now in operation in 16 Maryland school systems.

APPLICATION OF HUMAN DEVELOPMENT PRINCIPLES (EDHD 189-C) 2 credits
July 7-July 18; daily, 8:00-3:00; J-111.

The purpose of this workshop is to explore the meanings and possible implementation of Human Development concepts in local school settings.

ACTION RESEARCH IN HUMAN DEVELOPMENT (EDHD 189-E) 2 credits
Aug. 4-Aug. 15; daily, 8:00-3:00; J-111.

The purpose of this workshop is to develop specific projects of experimentation at the school building area, and county levels relating to Human Development concepts.

HUMAN RELATIONSHIPS IN EDUCATIONAL ADMINISTRATION (EDAD 189-A) 6 credits
June 25-Aug. 1; daily, 9:00-3:00; John F. Kennedy Senior High School.

Dr. Clarence A. Newell, Director.

This workshop is concerned with the development of leadership teams capable of providing in-service programs in human relations in local school systems. In addition to basic theory, the workshop will center on the practice and acquisition of specific human relations skills.

Preference in enrollment will be given to teams representing Maryland school systems which have participated in the workshop in the past, and to teams of four to six persons designated by other Maryland school systems. Enrollment in the workshop will be limited. Applications for team participation from local school systems will be processed in the order received. If more than one application is received at the same time, the director of the workshop will make the final decision.

INSTRUCTIONAL MATERIALS (EDUC 189-B) 3 credits
July 21-Aug. 8; daily, 8:30-12:00; Eastern Junior High School.

Staff.

This workshop will give teachers, librarians, and administrators the opportunity to work on problems in the selection, organization, and utilization of

instructional materials in school programs. It also covers changes in education as they affect the Instructional Materials Program, with emphasis on the newer media of instruction as well as traditional printed materials.

OUTDOOR EDUCATION WORKSHOP—see RECR 184, College of Physical Education, Recreation, and Health, pages 38 and 86.

SUPERVISION OF STUDENT TEACHERS (EDUC 189-A) 3 credits

June 25-July 11; daily, 9:30-3:30; OO-321.

Mr. James F. Collins, Director.

This workshop is planned for experienced personnel who are interested in studying the characteristics of good student teaching programs; the roles of the various cooperating personnel such as the cooperating teacher, the college supervisor, the principal, the academic supervisor, etc.; and an analysis of teaching.

TEAM TEACHING (EDSE 189-D) 3 credits

June 25-July 11; daily, 9:30-3:30; OO-225.

Dr. George J. Funaro, Director.

This workshop is designed to analyze the theoretical assumptions behind the team teaching organizational pattern. Teachers and administrators will also have an opportunity to develop team teaching projects to be implemented in their local schools. There will be lectures by the director and distinguished consultants, films, outside visits, development of personal team teaching projects, etc. Anyone interested in enrolling should submit an application for admission prior to June 1, 1969.

TRADE ADVANCEMENT WORKSHOP (EDIN 189-R) 1-6 credits

June 25-Aug. 15; arranged.

Dr. Walter S. Mietus, Director.

This workshop is designed for both experienced and prospective trade and industrial teachers who meet the state certification requirements. The purpose of this workshop is to increase the technical competence of trade and industrial teachers by means of their attendance at approved technical training centers. Specific emphasis in this course will be twofold: first, on the student's development and organization of instructional materials derived from the training he received; and secondly, on his application of these instructional materials to trade and industrial education programs at the secondary school and junior college level. Approval to enroll in this workshop must be obtained from the Department of Industrial Education prior to registration.

VOCATIONAL EDUCATION (EDIN 189-D) 1 credit

Section 1-June 25-Aug. 13; W. 9:30; P-210.

Section 2-June 25-Aug. 13; W. 1:30; P-210.

WORKSHOP FOR COLLEGE TEACHERS OF EARLY CHILDHOOD EDUCATION (EDEL 189-A) 3 credits

June 25-July 11; daily, 12:30-3:30; OO-223.

Dr. James L. Hymes, Jr., Director.

Enrollment in this workshop will be open to instructional and administrative personnel in higher education who help prepare teachers and other workers in day care centers, nursery schools, and kindergartens.

WORKSHOP FOR TEACHERS OF DISADVANTAGED YOUTH: TEACHING STRATEGIES FOR DISADVANTAGED CHILDREN (EDUC 189-M) 3 credits

June 25-July 11; daily, 9:30-3:30; C-134.

Dr. Chandler Barbour, Director.

This workshop is designed for elementary school teachers associated or concerned with disadvantaged children, who are interested in the identification and designing of teaching strategies. Participants will be involved in planning objectives, designing strategies, and in rationalizing particular teaching techniques that will insure success for children in educational experience. Registration is by consent of the director.

WORKSHOP IN TECHNOLOGICAL INNOVATION IN BUSINESS EDUCATION (EDSE 189-J) 3 credits

June 25-July 11; daily, 9:00-3:30; Q-19.

Dr. Martha L. Mead, Director.

The purpose of this workshop is to give business teachers an opportunity to become familiar with new media and methods of instruction in the office occupations area and to have actual experience working with new technological devices unique to this area.

COLLEGE OF HOME ECONOMICS**FAMILY LIFE TEACHERS WORKSHOP (HOEC 190d and HOEC 290d) 2 credits**

June 23-July 3; daily, 9:00-3:00; Home Management Center.

Dr. William D. Brown, Director.

This workshop is for elementary and secondary teachers, prospective teachers, and other school personnel as well as community leaders. It is designed for those who are interested in the further development of their own knowledge in the teaching of courses in this area or in initiating courses relative to the family and its relationships at each stage of the family life cycle. Topics of study will include sex education, sibling and parent-child relationships, and family crises. Each day's activities will include a lecture-discussion period and a period of time which will be used for reading and special interests. Participants may choose the age or grade levels of greatest concern to them for the reading and special interests periods. Enrollment is limited to 30.

**COLLEGE OF PHYSICAL EDUCATION,
RECREATION, AND HEALTH****ADVANCEMENTS IN HEALTH SCIENCE AND HEALTH EDUCATION—SIXTH ANNUAL (HLTH-189) 3 or 6 credits**

June 25-Aug. 1; daily, 8:00-11:00 a.m.; NN-320.

Dr. Herbert L. Jones, Director.

The purpose of the Institute is to update the participants (teachers, nurses, administrators, etc.) with information concerning the health and health education trends and developments. Ideas and dialogue from and with experts in the field will help improve content and method for the participant. Specific areas will include high level wellness, mental health, consumer health, sex education, and chronic degenerative disease.

Guest speakers and discussion leaders will be specialists from the National Institutes of Health, other branches of the United States Public Health Service, Office of Education, public health departments, and voluntary health agencies. A limited number of tuition scholarships are available from voluntary health agencies in Maryland and Washington, D.C.

Six week participation, six hours credit; three week participation, three hours credit.

OUTDOOR EDUCATION WORKSHOP (RECR 184) 6 credits

June 25-Aug. 1; daily, 9:00-3:00 and arranged; GG-160 and arranged.

Dr. Ellen E. Harvey, Director.

The Outdoor Education Workshop, offered in cooperation with and on behalf of the local and state education authorities, will present the philosophy, activities, materials, and methods recommended for modern outdoor education practice. Course content will involve group discussion and projects, practice sessions both on and off campus, trips, presentations by visiting specialists, and preparation and use of visual aids and curricular materials. Activity areas will range through the sciences and outdoor recreational skills. At least one week will be spent in a camp setting. Laboratory and field trip fees will be in addition to regular credit hour fees. Students in the College of Education who plan to apply this credit toward a degree program should get the authorization of their advisers.



Course Offerings

Unless otherwise noted, classes which meet daily run for six weeks, June 25-August 1; classes which meet on the M.T.Th.F. schedule run for eight weeks, June 26-August 15.

An "S" before a course number denotes that the course is offered in Summer School only. An "S" after a course number indicates a regular course modified for offering during the summer session. A more complete course description may be found in the respective college catalogues.

The University may find it necessary to cancel courses due to low enrollment. In general, freshman and sophomore courses will not be held for classes smaller than 20. Minimum enrollments for upper level undergraduate courses and graduate courses will be 15 and 10 respectively.

AGRICULTURE

AGRICULTURAL ECONOMICS

- AGEC 198. SPECIAL PROBLEMS. (1-2)
Arranged. Not for graduate credit. (Staff)
- AGEC 301. SPECIAL PROBLEMS IN AGRICULTURAL ECONOMICS (1-2)
Arranged. (Staff)
- AGEC 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- AGEC 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

AGRICULTURAL ENGINEERING

- AGEN 189. SENIOR PROBLEM. (2)
Prerequisite, approval of department. (Staff)
- AGEN 198. SPECIAL PROBLEMS IN FARM MECHANICS. (1-3)
Prerequisite, approval of department. Not acceptable for majors in Agricultural Engineering. Problems assigned in proportion to amount of credit. (Gienger)
- AGEN 301. SPECIAL PROBLEMS IN AGRICULTURAL ENGINEERING. (1-6)
Arranged. (Staff)

AGEN 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)

AGRICULTURAL AND EXTENSION EDUCATION

RLED 121. DIRECTED EXPERIENCE IN EXTENSION EDUCATION. (1-5)
 Prerequisite, satisfactory academic average and permission of instructor.
 Arranged. (Ryden)

RLED 170, 171. CONSERVATION OF NATURAL RESOURCES. (3, 3)
 Daily, arranged; E-103. Fee \$35.00—In addition to the regular credit hour fees. Courses taken concurrently in summer session. (Good)

RLED 180, 181. CRITIQUE IN RURAL EDUCATION. (1,1)
 Prerequisite, approval of staff.
 Arranged. (Staff)

RLED 198. SPECIAL PROBLEMS. (1-3)
 Prerequisite, approval of staff. Arranged. (Staff)

RLED 207, 208. SPECIAL TOPICS IN RURAL EDUCATION. (2, 2)
 Arranged. Permission of instructor. (Staff)

RLED 225. PROGRAM DEVELOPMENT IN EXTENSION EDUCATION. (2)
 Prerequisite, RLED 150 or equivalent. Arranged. (Ryden)

RLED 301. SPECIAL PROBLEMS. (1-3)
 Prerequisite, approval of staff. Arranged. (Staff)

RLED 302. SEMINAR IN RURAL EDUCATION. (1)
 Prerequisite, approval of staff. Arranged. (Staff)

RLED 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)

RLED 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

AGRONOMY

AGRO 198. SPECIAL PROBLEMS IN AGRONOMY. (1)
 Prerequisites, AGRO 10, 107, 108, or permission of instructor.
 Arranged. (Staff)

AGRO 208. RESEARCH METHODS. (2)
 Prerequisite, approval of staff. Arranged. (Staff)

AGRO 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)

AGRO 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

GEOL 001. GEOLOGY. (3)
 Section 1—M.T.Th.F., 9:30; E-201.
 Section 2—M.T.Th.F., 11:00; E-201.
 Section 3—June 25-Aug. 13; M.W., 7:00 p.m.; E-201.

ANIMAL SCIENCE

ANSC 198. SPECIAL PROBLEMS IN ANIMAL SCIENCE. (1-2)
 Prerequisite, approval of staff. Arranged. (Staff)

- ANSC 263. POULTRY NUTRITION LABORATORY. (2)
Daily; arranged. (Creek)
- ANSC 301. SPECIAL PROBLEMS IN ANIMAL SCIENCE. (1-2)
Prerequisite, approval of staff. Work assigned in proportion to amount of credit.
Arranged. (Staff)
- ANSC 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- ANSC 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

BOTANY

- BOTN 001. GENERAL BOTANY. (4)
Lecture M.T.Th.F., 8:00; E-001.
Laboratory Section 1—M.T.Th.F., 9:00-10:50; E-244.
Laboratory Section 2—M.T.Th.F., 11:00-12:50; E-244.
Laboratory Section 3—M.T.Th.F., 12:30-2:20; E-247.
(Harrison, Assistants)
- BOTN 136. PLANTS AND MANKIND. (2)
Prerequisite, BOTN 001 or equivalent. Open only to participants in the N.S.F. Institute. M.T.Th.F., 1:00-1:50; E-001. (Rappleye)
- BOTN 151S. TEACHING METHODS IN BOTANY. (2)
Prerequisite, BOTN 001, or equivalent. Open only to participants in the N.S.F. Institute. Demonstrations M.T.Th.F., 1:00-2:50; E-251. (Lockard)
- BOTN 171. MARINE PLANT BIOLOGY. (4)
Prerequisite, BOTN 001 or General Biology, Organic Chemistry, or the consent of the instructor. To be offered at the Chesapeake Biological Laboratory, Solomons, Maryland. Enrollment is limited to 15 students. Arranged.
(Krauss, Staff)
- BOTN 195. TUTORIAL READINGS IN BOTANY. (Honors Course) (2 or 3)
Arranged. See College of Agriculture Bulletin for details.
- BOTN 196. RESEARCH PROBLEMS IN BOTANY. (Honors Course) (2 or 3)
Prerequisite, BOTN 195. See College of Agriculture Bulletin for details.
- BOTN 199S. SEMINAR FOR NATIONAL SCIENCE FOUNDATION: SUMMER INSTITUTE FOR BIOLOGY TEACHERS. (2)
Open only to participants in the N.S.F. Institute for Biology Teachers. Two or three-hour sessions, W., 9:00 and 2:00, or all day field trips. (Lockard, Staff)
- BOTN 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- BOTN 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

ENTOMOLOGY

- ENTM S121. ENTOMOLOGY FOR SCIENCE TEACHERS. (4)
Lectures, M.T.Th.F., 8:00; O-101. Laboratory periods M.T.Th.F., 9:00; O-200.
Open only to participants in the N.S.F. Institute. (Messersmith)
- ENTM 198. SPECIAL PROBLEMS. (1-3)
Credit and prerequisites determined by the department. Arranged. (Bickley)

- ENTM 301. ADVANCED ENTOMOLOGY. (1-6)
 Credit and prerequisites determined by the department. Arranged. (Bickley)
- ENTM 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- ENTM 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

FOOD SCIENCE

- FDSC 198. SPECIAL PROBLEMS IN FOOD SCIENCE. (1-3)
 Prerequisite, approval of staff. Arranged. (Staff)
- FDSC 301. SPECIAL PROBLEMS IN FOOD SCIENCE. (1-4)
 Credit according to time scheduled and magnitude of problem. Prerequisite,
 CHEM 161 or permission of instructor. Arranged. (Staff)
- FDSC 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- FDSC 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

HORTICULTURE

- HORT 198. SPECIAL PROBLEMS. (2-4)
 Arranged. For students majoring in Horticulture or Botany. Staff)
- HORT 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- HORT 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

ARTS AND SCIENCES

AMERICAN STUDIES

- AMST 128. CULTURE AND THE ARTS IN AMERICA. (3)
 M.T.Th.F., 9:30; A-50. (Beall)
- AMST 201. SEMINAR IN AMERICAN STUDIES. (3)
 June 26-Aug. 14; M.Th., 7:00 p.m.; A-50. (Beall)
- AMST 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- AMST 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

ART

- ART 010. INTRODUCTION TO ART. (3)
 M.T.Th.F., 8:00; NN-320. (Bradley)
- ART 012. DESIGN I. (3)
 June 25-Aug. 15.
 Section 1—Daily, 8:00-10:00; NN-133. (Green)
 Section 2—Daily, 10:00-12:00; NN-133. (Green)

- ART 016. DRAWING I. (3)
 June 25-Aug. 15.
 Section 1—Daily, 8:00-10:00; NN-332. (Kimmel)
 Section 2—Daily, 10:00-12:00; NN-332. (Dillinger)
 Section 3—Daily, 1:00-3:00; NN-332. (Dillinger)
- ART 017. PAINTING I. (3)
 June 25-Aug. 15.
 Section 1—Daily, 8:00-10:00; NN-232. (Tessem)
 Section 2—Daily, 10:00-12:00; NN-230. (Gross)
- ART 026. DRAWING II. (3)
 June 25-Aug. 15; daily, 10:00-12:00; NN-232. (Tessem)
- ART 040. FUNDAMENTALS OF ART EDUCATION. (3)
 Section 1—M.T.Th.F., 8:00; NN-330. (Lembach)
 Section 2—M.T.Th.F., 9:30; NN-330. (Lembach)
- ART 060. HISTORY OF ART. (3)
 M.T.Th.F., 8:00; N-214. (Denny)
- ART 061. HISTORY OF ART. (3)
 M.T.Th.F., 12:30; NN-214. (North)
- ART 065. MASTERPIECES OF PAINTING. (3)
 M.T.Th.F., 11:00; NN-320. (North)
- ART 117. PAINTING II. (3)
 June 25-Aug. 15; daily, 10:00-12:00; NN-224. (Gross)
- ART 118. SCULPTURE I. (3)
 June 25-Aug. 15.
 Section 1—Daily, 10:00-12:00; NN-139. (Bradley)
 Section 2—Daily, 1:00-3:00; NN-139. (Freeny)
- ART 119. PRINTMAKING I. (3)
 June 25-Aug. 15; daily, 8:00-10:00; FF-25. (Forbes)
- ART 126. DRAWING III. (3)
 June 25-Aug. 15; daily, 10:00-12:00; NN-232. (Tessem)
- ART 127. PAINTING III. (3)
 June 25-Aug. 15; daily, 10:00-12:00; NN-224. (Gross)
- ART 128B. SCULPTURE II. (3)
 June 25-Aug. 15; daily, 1:00-3:00; NN-137. (Freeny)
- ART 129. PRINTMAKING II. (3)
 June 25-Aug. 15; daily, 10:00-12:00; FF-22. (Forbes)
- ART 138. SCULPTURE III. (3)
 June 25-Aug. 15; daily, 1:00-3:00; NN-137. (Freeny)
- ART 139. PRINTMAKING III. (3)
 June 25-Aug. 15; daily, 10:00-12:00; FF-22. (Forbes)
- ART 167. MEDIEVAL ART. (3)
 M.T.Th.F., 9:30; NN-214. (Denny)
- ART 192. DIRECTED STUDIES IN STUDIO ART. (2-3)
 Arranged. (Staff)

- ART 193. DIRECTED STUDIES IN STUDIO ART. (2-3)
Arranged. (Staff)
- ART 194. DIRECTED STUDIES IN ART HISTORY. (2-3)
Arranged. (Staff)
- ART 195. DIRECTED STUDIES IN ART HISTORY. (2-3)
Arranged. (Staff)
- ART 221. MATERIALS AND TECHNIQUES IN SCULPTURE. (3)
June 25-Aug. 15; daily, 1:00-3:00; NN-137. (Freeny)
- ART 292. DIRECTED GRADUATE STUDIES IN STUDIO ART. (3)
Arranged. (Staff)
- ART 293. DIRECTED GRADUATE STUDIES IN STUDIO ART. (3)
Arranged. (Staff)
- ART 294. DIRECTED GRADUATE STUDIES IN ART HISTORY. (3)
Arranged. (Staff)
- ART 295. DIRECTED GRADUATE STUDIES IN ART HISTORY. (3)
Arranged. (Staff)
- ART 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- ART 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

CHEMISTRY

- CHEM 001. GENERAL CHEMISTRY. (4)
Prerequisite, one year high school algebra or equivalent. Four lectures, two recitations, and two three-hour laboratory periods per week. Lecture, M.T.Th.F., 11:00; C-132; Recitation, T.F., 1:00; C-079, C-080; Laboratory, M.Th., 1:00; C-117, C-118. (Staff)
- CHEM 003. GENERAL CHEMISTRY. (4)
Prerequisite, CHEM 001 or equivalent. Four lectures, two recitations, and two three-hour laboratory periods per week. Lecture, M.T.Th.F., 11:00; C-130; Recitation, T.F., 1:00; C-081, C-090, C-098; Laboratory, M.Th., 1:00; C-106, C-119, C-120. (Staff)
- CHEM 019. ELEMENTS OF QUANTITATIVE ANALYSIS. (4)
Prerequisite, CHEM 003. Four lectures and four three-hour laboratory periods per week. Lecture, M.T.Th.F., 12:30; C-132; Laboratory, M.T.Th.F., 8:00; C-306. (Staff)
- CHEM 035. ELEMENTARY ORGANIC CHEMISTRY. (2)
Prerequisite, CHEM 003, 005, or equivalent. Four lectures per week. M.T.Th.F., 12:30; C-097. (Mazzocchi)
- CHEM 036. ELEMENTARY ORGANIC LABORATORY. (2)
Prerequisite, CHEM 003, 005, or equivalent. Four three-hour laboratory periods per week. M.T.Th.F., 8:00; C-205. (Mazzocchi)
- CHEM 037. ELEMENTARY ORGANIC CHEMISTRY. (2)
Prerequisite, CHEM 035. Four lectures per week. M.T.Th.F., 12:30; C-093. (Henery-Logan)
- CHEM 038. ELEMENTARY ORGANIC LABORATORY. (2)
Prerequisite, CHEM 036. Four three-hour laboratory periods per week. M.T.Th.F., 8:00; C-202, C-204. (Henery-Logan)



CHEM 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)

CHEM 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

CLASSICAL LANGUAGES AND LITERATURE

LATN 102. TACITUS. (3)
M.T.Th.F., 9:30; T-102. (Avery)

COMPARATIVE LITERATURE

CMLT 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)

CMLT 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

COMPUTER SCIENCE

CMSC 012. INTRODUCTORY ALGORITHMIC METHODS. (3)
Prerequisite, MATH 011 or equivalent. Daily, 8:00; MM-204. Lectures, M.W.F.,
Laboratory, T.Th. (Williams)

CMSC 020. ELEMENTARY ALGORITHMIC ANALYSIS. (3)
Prerequisite, MATH 20 or equivalent or concurrent registration. Daily, 11:00;
MM-204. Lectures, M.W.F., Laboratory, T.Th. (Vandergraft)

CMSC 100. LANGUAGE AND STRUCTURE OF COMPUTERS. (3)
Prerequisite, CMSC 20 or equivalent. Daily, 9:30; MM-204. Lectures, M.W.F.,
Laboratory, T.Th. (Williams)

CMSC 102. INTRODUCTION TO DISCRETE STRUCTURES. (3)
Prerequisite, CMSC 20 or equivalent. M.T.Th.F., 8:00; MM-207. This course is
the same as ENEE 102. (Vandergraft)

CMSC 140. STRUCTURE OF PROGRAMMING LANGUAGES. (3)
Prerequisite, CMSC 100 or equivalent. M.T.Th.F., 9:30; MM-230. (Pfaltz)

CMSC 150. DATA AND STORAGE STRUCTURES. (3)
Prerequisites, CMSC 100 and CMSC 102 or equivalent. M.T.Th.F., 8:00;
MM-230. (Lindamood)

CMSC 166. FUNCTIONAL ORGANIZATION OF DIGITAL COMPUTER SYSTEMS. (3)
Prerequisite, CMSC 100 or ENEE 162 or equivalent. M.T.Th.F., 11:00; MM-
230. (Lindamood)

CMSC 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)

DANCE

DANC 032. INTRODUCTION TO DANCE. (3)
Daily, 11:00; FF-21. (Yeo)

DANC 052. DANCE TECHNIQUES. (2)
Daily, 9:30; W-200. (Yeo)

ENGLISH

ENGL 001. COMPOSITION. (3)

Section 1—M.T.Th.F., 8:00; A-43.

Section 2—M.T.Th.F., 8:00; A-49.

Section 3—M.T.Th.F., 9:30; T-10.

Section 4—M.T.Th.F., 9:30; T-103.

Section 5—M.T.Th.F., 11:00; A-43.

Section 6—M.T.Th.F., 11:00; A-49.

Section 7—M.T.Th.F., 12:30; A-43.

Section 8—June 25-Aug. 13; M.W., 7:00-9:50 p.m.; A-43. (Flower, Staff)

ENGL 003. WORLD LITERATURE. (3)

Prerequisite, ENGL 001 or 021.

Section 1—M.T.Th.F., 8:00; A-48.

Section 2—M.T.Th.F., 9:30; A-48.

Section 3—M.T.Th.F., 9:30; T-108.

Section 4—M.T.Th.F., 11:00; A-48.

Section 5—M.T.Th.F., 11:00; A-159.

Section 6—June 26-Aug. 14; T.Th., 7:00-9:50 p.m.; A-48. (Herman, Staff)

ENGL 004. WORLD LITERATURE. (3)

Prerequisite, ENGL 001 or 021.

Section 1—M.T.Th.F., 8:00; A-159.

Section 2—M.T.Th.F., 9:30; T-118.

Section 3—M.T.Th.F., 9:30; T-201.

Section 4—M.T.Th.F., 11:00; A-161.

Section 5—M.T.Th.F., 11:00; A-164.

Section 6—M.T.Th.F., 12:30; A-159.

Section 7—June 26-Aug. 14; T.Th., 7:00-9:50 p.m.; A-159. (Herman, Staff)

ENGL 055. ENGLISH LITERATURE FROM BEGINNINGS TO 1800. (3)

Prerequisite, ENGL 001 or equivalent. M.T.Th.F., 9:30; A-174. (Staff)

ENGL 056. ENGLISH LITERATURE SINCE 1800. (3)

Prerequisite, ENGL 001 or equivalent. M.T.Th.F., 11:00; A-167. (Staff)

ENGL 101. HISTORY OF THE ENGLISH LANGUAGE. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 8:00; A-161. (Robb)

ENGL 104. CHAUCER. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 9:30; A-167. (Cooley)

ENGL 108. ADVANCED ENGLISH GRAMMAR. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 9:30; A-159. (Robb)

ENGL 116. SHAKESPEARE. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 9:30; A-166. (Zeeveld)

ENGL 117. MAJOR WORKS OF SHAKESPEARE. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 11:00; A-174. (D. Smith)

ENGL 122. LITERATURE OF THE SEVENTEENTH CENTURY, 1600-1660. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 11:00; A-166. (Wilson)

ENGL 126. LITERATURE OF THE EIGHTEENTH CENTURY. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 11:00; RR-23. (Saltz)

ENGL 129. LITERATURE OF THE ROMANTIC PERIOD. (3)

Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 9:30; A-161. (Kinnaird)

- ENGL 135. LITERATURE OF THE VICTORIAN PERIOD. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 9:30; A-43. (Pitts)
- ENGL 139. THE ENGLISH NOVEL. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 11:00; RR-24. (Ward)
- ENGL 143. MODERN POETRY. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 9:30; A-49. (Jellema)
- ENGL 150. AMERICAN LITERATURE, 1810 TO 1865. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 8:00; A-174. (Dunn)
- ENGL 151. AMERICAN LITERATURE SINCE 1865. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 8:00; A-167. (Gravelly)
- ENGL 153. THE AMERICAN NOVEL SINCE 1910. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 11:00; RR-113. (Hovey)
- ENGL 156. MAJOR AMERICAN WRITERS. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 9:30; A-164. (Lutwack)
- ENGL 160. ADVANCED EXPOSITORY WRITING. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 11:00; A-321. (Herman)
- ENGL 170. CREATIVE WRITING. (3)
Prerequisite, ENGL 004 or equivalent. M.T.Th.F., 11:00; AR-23. (Whittemore)
- ENGL 201. BIBLIOGRAPHY AND METHODS. (3)
June 26-Aug. 14; M.Th., 1:30-3:30; RR-3. (Bryer)
- ENGL 206. SEMINAR IN RENAISSANCE LITERATURE. (3)
June 27-Aug. 15; T.F., 1:30-3:30; RR-3. (Zeeveld)
- ENGL 215. SEMINAR IN NINETEENTH CENTURY LITERATURE. (3)
June 26-Aug. 14; M.Th., 4:00-6:00; RR-3. (Korg)
- ENGL 226. SEMINAR IN AMERICAN LITERATURE. (3)
June 26-Aug. 14; T.Th., 4:00-6:00; RR-3. (Hovey)
- ENGL 242. STUDIES IN TWENTIETH CENTURY LITERATURE. (3)
June 26-Aug. 14; T.Th., 7:00-9:00 p.m.; RR-3. (Whittemore)
- ENGL 260. SPECIAL STUDIES IN ENGLISH LITERATURE, MEDIEVAL. (3)
June 26-Aug. 14; M.Th., 1:30-3:30; RR-5. (Cooley)
- ENGL 262. SPECIAL STUDIES IN ENGLISH LITERATURE, SEVENTEENTH CENTURY. (3)
June 26-Aug. 14; M.Th., 1:30-3:30; RR-7. (Murphy)
- ENGL 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- ENGL 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

FOREIGN LANGUAGES

- CHIN 001, 002. ELEMENTARY CHINESE. (3, 3)
CHIN 001: June 25-July 18; CHIN 002: July 21-Aug. 15. Registration for both CHIN 001 and/or 002 on June 23 or 24 as separate courses. This course meets three times daily; first lecture period 8:00-9:00; drill 9:30-10:20; second lecture period 11:00-12:00; LL-4. A student enrolled in CHIN 001 and/or 002 may not take any other course in the summer session. (McCaskey)

- FREN 000. ELEMENTARY FRENCH FOR GRADUATE STUDENTS. (Audit)
Daily, 8:00; LL-12. This course is billed for 3 credit hours. (Lloyd-Jones)
- FREN 001, 002. ELEMENTARY FRENCH. (3, 3)
FREN 001: June 25-July 18; FREN 002: July 21-Aug. 15. Registration for both FREN 001 and/or 002 on June 23-24 as separate courses. This course meets three times daily; first lecture period 8:00-9:00; second lecture period 10:00-11:00; plus an electronic laboratory to be scheduled at the first class meeting. This lab may fall at any other time during the day.
Section 1—8:00-9:00, LL-3; 10:00-11:00, LL-202.
Section 2—8:00-9:00, LL-13; 10:00-11:00, LL-13.
A student enrolled in FREN 001 and/or 002 may not take another course in the summer session. (Lundy, Staff)
- FREN 006, 007. INTERMEDIATE FRENCH. (3, 3)
FREN 006: June 25-July 18; FREN 007: July 21-Aug. 15. Registration for both FREN 006 and/or 007 on June 23-24 as separate courses. This course meets twice daily; first lecture period 9:00-10:00; second lecture period 11:00-12:00.
Section 1—9:00-10:00, LL-106; 11:00-12:00, LL-106.
Section 2—9:00-10:00, LL-12; 11:00-12:00, LL-202.
A student enrolled in FREN 006 and/or 007 may not take any other course in the summer session. (Luggi, Staff)
- FREN 011. INTRODUCTION TO FRENCH LITERATURE. (3)
Daily, 9:30; LL-113. (DeFlorio)
- FREN 072. REVIEW GRAMMAR AND COMPOSITION. (3)
Daily, 8:00; LL-220. (DeFlorio)
- FREN 104. EXPLICATION DE TEXTES. (3)
Daily, 11:00; LL-220. (Lamarque)
- FREN 112. FRENCH LITERATURE OF THE 16TH CENTURY. (3)
M.T.Th.F., 9:30; LL-3. (Lloyd-Jones)
- FREN 291C. SEMINAR IN FRENCH MEDIEVAL LITERATURE—
CHRISTIAN DE TROYES. (3)
June 26-Aug. 14; M.Th., 1:00-3:00; LL-308. (Lamarque)
- FREN 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- FREN 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)
- GERM 000. ELEMENTARY GERMAN FOR GRADUATE STUDENTS. (Audit)
This course is billed for three credit hours. (Dobert, Irwin)
Section 1—Daily, 8:00; LL-204.
Section 2—Daily, 8:00; LL-201.
- GERM 001, 002. ELEMENTARY GERMAN. (3, 3)
GERM 001: June 25-July 18; GERM 002: July 21-Aug. 15. Register for both GERM 001 and/or 002 on June 23 or 24 as separate courses. This course meets three times daily; first lecture period 10:00-11:00; second lecture period 11:00-12:00; drill 8:00-9:00 and/or 9:00-10:00. A student enrolled in GERM 001 and/or 002 may not take any other course in the summer session.
Section 1—LL-12. (Demaitre)
Section 2—Q-240. (Knoche)
- GERM 006. INTERMEDIATE LITERARY GERMAN. (3)
Daily, 8:00; O-236. GERM 006 may not be taken concurrently with GERM 007. (Hahn)

GERM 007. INTERMEDIATE LITERARY GERMAN. (3)

Daily, 9:30; O-101. GERM 007 may not be taken concurrently with GERM 006.
(Irwin)

GERM 103. ADVANCED COMPOSITION. (3)

Daily, 11:00; O-101. (Hoffmeister)

GERM 141. GERMAN LITERATURE OF THE TWENTIETH CENTURY. (3)

Daily, 9:30; O-236. (Dobert)

GERM 399. THESIS RESEARCH. (1-6)

Arranged. (Dobert)

GERM 499. DISSERTATION RESEARCH. (1-6)

Arranged. (Staff)

ITAL 001, 002. ELEMENTARY ITALIAN. (3, 3)

ITAL 001: June 25-July 18; ITAL 002: July 21-Aug. 15. Registration for both ITAL 001 and/or 002 on June 23 or 24 as separate courses. This course meets three times daily: first lecture period 8:00-9:00, LL-106; second lecture period 10:00-11:00, LL-1; plus an electronic laboratory to be scheduled at the first class meeting. This laboratory may fall at any other time during the day. A student enrolled in ITAL 001 and/or 002 may not take any other course in the summer session. (Staff)

ITAL 006, 007. INTERMEDIATE ITALIAN. (3, 3)

ITAL 006: June 25-July 18; ITAL 007: July 21-Aug. 15. Registration for both ITAL 006 and/or 007 on June 23 or 24 as separate courses. This course meets twice daily; first lecture period 9:00-10:00, LL-4; second lecture period 11:00-12:00, LL-3. A student enrolled in ITAL 006 and/or 007 may not take any other course in the summer session. (Staff)

RUSS 001, 002. ELEMENTARY RUSSIAN. (3, 3)

RUSS 001: June 25-July 18; RUSS 002: July 21-Aug 15. Register for both RUSS 001 and/or 002 on June 23 or 24 as separate courses. This course meets three times daily: 8:00-9:00; drill 9:30-10:20; 11:00-12:00, LL-116. A student enrolled in RUSS 001 and/or 002 may not take any other course in the summer session. (Juran, Tuniks)

RUSS 006, 007. INTERMEDIATE RUSSIAN. (3, 3)

RUSS 006: June 25-July 18; RUSS 007: July 21-Aug. 15. Register for RUSS 006 and/or 007 on June 23 or 24 as separate courses. This course meets daily: 9:30-10:30; 10:45-11:45, LL-201. (Staff)

SPAN 001, 002. ELEMENTARY SPANISH. (3, 3)

SPAN 001: June 25-July 18; SPAN 002: July 21-Aug.15. Registration for both SPAN 001 and/or 002 on June 23 or 24 as separate courses. This course meets three times daily: first lecture period 8:00-9:00; second lecture period 11:00-12:00; plus an electronic laboratory to be scheduled at the first class meeting. This laboratory may fall at any other time during the day. A student enrolled in SPAN 001 and/or 002 may not take any other course in the summer session.

Section 1—LL-1. (Mur)

Section 2—LL-1. (Willoughby-Macdonald)

SPAN 006. INTERMEDIATE SPANISH. (3)

SPAN 006 may not be taken concurrently with SPAN 007.

Section 1—Daily, 9:30; LL-2. (Villavicencio)

Section 2—Daily, 9:30; LL-104. (Scheiderer)

- SPAN 007. INTERMEDIATE SPANISH. (3)
 SPAN 007 may not be taken concurrently with SPAN 006.
 Section 1—Daily, 8:00; LL-2. (Scheiderer)
 Section 2—Daily, 11:00; LL-2. (Villavicencio)
- SPAN 103. ADVANCED COMPOSITION. (3)
 Daily, 9:30; LL-105. (Marra-López)
- SPAN 105. GREAT THEMES OF THE HISPANIC LITERATURES. (3)
 Daily, 11:00; LL-105. (Marra-López)
- SPAN 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- SPAN 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)
- HISTORY**
- HIST 021. HISTORY OF THE UNITED STATES TO 1865. (3)
 Section 1—M.T.Th.F., 8:00; RR-15. (Staff)
 Section 2—M.T.Th.F., 9:30; AR-18. (Staff)
 Section 3—M.T.Th.F., 9:30; RR-7. (Staff)
 Section 4—M.T.Th.F., 11:00; AR-18. (Staff)
 Section 5—June 25-Aug. 13; M.W., 7:00-9:50 p.m.; Q-104. (Campbell)
- HIST 022. HISTORY OF THE UNITED STATES SINCE 1865. (3)
 Section 1—M.T.Th.F., 8:00; RR-19. (Staff)
 Section 2—M.T.Th.F., 9:30; RR-19. (Staff)
 Section 3—M.T.Th.F., 11:00; RR-19. (Staff)
 Section 4—June 26-Aug. 14; T.Th., 7:00-9:50 p.m.; Q-104. (Campbell)
- HIST 023. SOCIAL AND CULTURAL HISTORY OF EARLY AMERICA. (3)
 M.T.Th.F., 9:30; RR-20. (Staff)
- HIST 024. SOCIAL AND CULTURAL HISTORY OF MODERN AMERICA. (3)
 M.T.Th.F., 11:00; RR-17. (Staff)
- HIST 029. THE UNITED STATES IN WORLD AFFAIRS. (3)
 M.T.Th.F., 9:30; RR-23. (Staff)
- HIST 032. LATIN AMERICAN HISTORY. (3)
 M.T.Th.F., 9:30; RR-3. (Staff)
- HIST 041. WESTERN CIVILIZATION. (3)
 Section 1—M.T.Th.F., 8:00; RR-21. (Staff)
 Section 2—M.T.Th.F., 9:30; RR-21. (Staff)
 Section 3—M.T.Th.F., 11:00; RR-21. (Staff)
- HIST 042. WESTERN CIVILIZATION. (3)
 Section 1—M.T.Th.F., 8:00; RR-22. (Staff)
 Section 2—M.T.Th.F., 9:30; RR-22. (Staff)
 Section 3—M.T.Th.F., 11:00; RR-22. (Staff)
- HIST 053. HISTORY OF ENGLAND AND GREAT BRITAIN. (3)
 M.T.Th.F., 8:00; RR-20. (Robertson)
- HIST 054. HISTORY OF ENGLAND AND GREAT BRITAIN. (3)
 M.T.Th.F., 9:30; RR-5. (Barillari)
- HIST 061. FAR EASTERN CIVILIZATION. (3)
 M.T.Th.F., 8:00; RR-3. (Folsom)

- HIST 062. FAR EASTERN CIVILIZATION. (3)
M.T.Th.F., 9:30; AR-23. (Folsom)
- HIST 102. THE AMERICAN REVOLUTION. (3)
M.T.Th.F., 8:00; RR-5. (Bradbury)
- HIST 114. THE MIDDLE PERIOD OF AMERICAN HISTORY, 1824-1860. (3)
M.T.Th.F., 11:00; RR-20. (Curry)
- HIST 115. HISTORY OF THE SOUTH. (3)
Prerequisite, HIST 021, 022 or equivalent. M.T.Th.F., 9:30; RR-113. (Farrell)
- HIST 117. THE NEGRO IN AMERICAN LIFE. (3)
M.T.Th.F., 9:30; AR-11. (Staff)
- HIST 119. BETWEEN THE WARS: THE UNITED STATES, 1919-1945. (3)
M.T.Th.F., 9:30; RR-114. (Staff)
- HIST 124. RECONSTRUCTION AND THE NEW NATION, 1865-1896. (3)
Prerequisite, six credits of American history or permission of the instructor.
M.T.Th.F., 11:00; RR-3. (Staff)
- HIST 134. THE HISTORY OF IDEAS IN AMERICA. (3)
M.T.Th.F., 11:00; RR-7. (Staff)
- HIST 150. HISTORY OF ARGENTINA AND THE ANDEAN REPUBLICS. (3)
M.T.Th.F., 8:00; RR-7. (Staff)
- HIST 164. HISTORY OF THE BRITISH EMPIRE. (3)
Prerequisites, HIST 041, 042 or HIST 053, 054, M.T.Th.F., 8:00; RR-16. (Gordon)
- HIST 168. HISTORY OF RUSSIA. (3)
M.T.Th.F., 11:00; RR-5. (Yaney)
- HIST 171. EUROPE IN THE WORLD SETTING OF THE TWENTIETH CENTURY. (3)
Prerequisites, HIST 041, 042 or HIST 053, 054. M.T.Th.F., 9:30; RR-115. (Staff)
- HIST 194. HISTORY OF THE JEWS AND THE STATE OF ISRAEL. (3)
M.T.Th.F., 9:30; RR-24. (Staff)
- HIST 200. HISTORIOGRAPHY. (3)
Arranged. (Staff)
- HIST 215. READINGS IN THE MIDDLE PERIOD AND CIVIL WAR. (3)
Arranged. (Curry)
- HIST 263. READINGS IN THE HISTORY OF GREAT BRITAIN AND THE BRITISH
EMPIRE-COMMONWEALTH. (3)
Arranged. (Gordon)
- HIST 268. SEMINAR IN RUSSIAN HISTORY. (3)
Arranged. (Yaney)
- HIST 281. READINGS IN MIDDLE EASTERN HISTORY. (3)
Arranged. (Staff)
- HIST 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- HIST 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

MATHEMATICS

MATH 003. FUNDAMENTALS OF MATHEMATICS. (4)

Prerequisite, satisfactory performance on the SAT mathematics test or MATH 001. June 25-Aug. 15.

Section 1—Daily, 8:00; Y-B33. (Staff)

Section 2—Daily, 8:00; Y-B34. (Staff)

Section 3—Daily, 9:30; Y-B33. (Staff)

Section 4—Daily, 11:00; Y-B33. (Staff)

MATH 010. INTRODUCTION TO MATHEMATICS. (3)

Prerequisite, 2½ years of college preparatory mathematics and satisfactory performance on the SAT mathematics test, or MATH 001. Open to students not majoring in mathematics or the physical or engineering sciences.

Section 1—M.T.Th.F., 8:00, Y-B37. (Staff)

Section 2—M.T.Th.F., 8:00; Y-B36. (Staff)

Section 3—M.T.Th.F., 8:00; Y-B41. (Staff)

Section 4—M.T.Th.F., 9:30; Y-B37. (Staff)

Section 5—M.T.Th.F., 9:30; Y-B36. (Staff)

Section 6—M.T.Th.F., 11:00; Y-B34. (Staff)

Section 7—M.T.Th.F., 11:00; Y-B37. (Staff)

MATH 011. INTRODUCTION TO MATHEMATICS. (3)

Prerequisite, MATH 010. MATH 011 is a continuation of MATH 010.

Section 1—M.T.Th.F., 8:00; Y-B38. (Staff)

Section 2—M.T.Th.F., 9:30; Y-B38. (Staff)

Section 3—M.T.Th.F., 9:30; Y-B43. (Staff)

Section 4—M.T.Th.F., 11:00; Y-B36. (Staff)

MATH 018. INTRODUCTORY ANALYSIS. (3)

Prerequisite, 2½ years of college preparatory mathematics and an appropriate score on the SAT mathematics test, or MATH 001. An introductory course for students not qualified to start MATH 019.

Section 1—M.T.Th.F., 8:00; Y-B43. (Staff)

Section 2—M.T.Th.F., 11:00; Y-036. (Staff)

MATH 019. ANALYSIS I. (4)

Prerequisite, 3½ years of college preparatory mathematics or MATH 018.

June 25-Aug. 15.

Section 1—Daily, 8:00; Y-B42. (Staff)

Section 2—Daily, 8:00; Y-031. (Staff)

Section 3—Daily, 11:00; Y-B41. (Staff)

MATH 020. ANALYSIS II. (4)

Prerequisite, MATH 019 or equivalent. June 25-Aug. 15.

Section 1—Daily, 9:30; Y-B34. (Staff)

Section 2—Daily, 9:30; Y-B41. (Staff)

Section 3—Daily, 11:00; Y-035. (Staff)

MATH 021. ANALYSIS III. (4)

Prerequisite, MATH 020 or equivalent. June 25-Aug. 15.

Section 1—Daily, 9:30; Y-034. (Staff)

Section 2—daily, 11:00; Y-B38. (Staff)

MATH 022. ANALYSIS IV. (4)

Prerequisite, MATH 021 or equivalent. June 25-Aug. 15.

Section 1—Daily, 11:00; Y-B43. (Staff)

Section 2—Daily, 11:00; Y-B40. (Staff)

- MATH 030. ELEMENTS OF MATHEMATICS. (4)**
 Prerequisite, one year of college preparatory algebra. Required for majors in elementary education, and open only to students in this field. June 25-Aug. 15.
 Section 1—Daily, 8:00; Y-034. (Staff)
 Section 2—Daily, 8:00; Y-035. (Staff)
 Section 3—Daily, 9:30; Y-035. (Staff)
- MATH 031. ELEMENTS OF GEOMETRY. (4)**
 Prerequisite, MATH 030 or equivalent. June 25-Aug. 15.
 Section 1—Daily, 9:30; Y-036. (Staff)
 Section 2—Daily, 11:00; Y-039. (Staff)
- MATH 066. DIFFERENTIAL EQUATIONS FOR SCIENTISTS AND ENGINEERS. (3)**
 Prerequisite, MATH 021 or equivalent.
 Section 1—M.T.Th.F., 9:30; Y-039. (Staff)
 Section 2—M.T.Th.F., 9:30; Y-038. (Staff)
 Section 3—M.T.Th.F., 9:30; Y-043. (Staff)
- MATH 100. VECTORS AND MATRICES. (3)**
 Prerequisite, MATH 021 or MATH 015.
 Section 1—M.T.Th.F., 8:30; Y-036. (Staff)
 Section 2—M.T.Th.F., 9:30; Y-040. (Staff)
- MATH 103. INTRODUCTION TO ABSTRACT ALGEBRA. (3)**
 Prerequisite, MATH 022 or equivalent. M.T.Th.F., 9:30; Y-B40. (Staff)
- MATH 104. INTRODUCTION TO LINEAR ALGEBRA. (3)**
 Prerequisite, MATH 103 or consent of instructor. M.T.Th.F., 11:00; Y-B42. (Staff)
- MATH 110. ADVANCED CALCULUS. (3)**
 Prerequisite, MATH 022. M.T.Th.F., 9:30; Y-042. (Staff)
- MATH 119. SEVERAL REAL VARIABLES. (3)**
 Prerequisite, MATH 110. M.T.Th.F., 9:30; Y-B42. (Staff)
- MATH 128. EUCLIDEAN GEOMETRY. (3)**
 Prerequisite, MATH 021 or consent of instructor. M.T.Th.F., 8:00; Y-039. (Staff)
- MATH 146. FUNDAMENTAL CONCEPTS OF MATHEMATICS. (3)**
 Prerequisite, MATH 021 or consent of instructor. M.T.Th.F., 8:00; Y-038. (Staff)
- MATH 181. INTRODUCTION TO NUMBER THEORY. (3)**
 June 25-Aug. 15. Enrollment restricted to elementary school teachers, kindergarten through grade 6.
 Section 1—M.T.Th.F., 8:00; Y-043. (Staff)
 Section 2—M.T.Th.F., 8:00; Y-040. (Staff)
- MATH 183. INTRODUCTION TO GEOMETRY. (3)**
 M.T.Th.F., 11:00; Y-034. Enrollment restricted to elementary school teachers, kindergarten through grade 6. (Staff)
- MATH 185. SELECTED TOPICS IN MATHEMATICS. (3)**
 Section 1—Daily, 9:30; C-76. June 23-Aug. 1. Open only to participants in the N.S.F. Institute for Elementary School Teachers. (Staff)
 Section 2—Daily, 8:00; E-305. June 30-Aug. 8. Open only to participants in the N.S.F. Institute for Junior High School Teachers in Mathematics. (Davidson)
- MATH 189. NATIONAL SCIENCE FOUNDATION SUMMER INSTITUTE FOR TEACHERS OF SCIENCE AND MATHEMATICS SEMINAR. (3)**
 Section 1—Daily, 1:00; C-76. June 23-Aug. 1. Open only to participants in the

N.S.F. Institute for Elementary School Teachers. (Henkelman)
 Section 2—Daily, 1:00; E-305. June 30-Aug. 8. Open only to participants in the
 N.S.F. Institute for Junior High School Teachers in Mathematics (Good)

MATH 190. HONORS SEMINAR. (2)

Prerequisite, permission of the departmental Honors Committee. June 30-Aug. 8;
 M.F., arranged. (Staff)

MATH 399. THESIS RESEARCH. (1-6)

Arranged. (Staff)

MATH 499. DISSERTATION RESEARCH. (1-6)

Arranged. (Staff)

STAT 100. PROBABILITY AND STATISTICS I. (3)

Prerequisite, MATH 015 or concurrent enrollment in MATH 021.

Section 1—M.T.Th.F., 8:00; Y-B40.

(Staff)

Section 2—M.T.Th.F., 9:30; Y-031.

(Staff)

STAT 101. PROBABILITY AND STATISTICS II. (3)

Prerequisite, STAT 100. M.T.Th.F., 11:00; Y-031.

(Staff)

MICROBIOLOGY

MICB 001. GENERAL MICROBIOLOGY. (4)

M.T.Th.F. Four lectures and four two-hour laboratory periods a week. Lecture,
 8:00; T-5; Laboratory. 9:00-11:00; T-210. (Hetrick)

MICB 181. MICROBIOLOGICAL PROBLEMS. (3)

Prerequisite, 16 credits in MICB. Arranged. Six two-hour laboratory periods
 a week. Registration only upon consent of the instructor. (Staff)

MICB 399. THESIS RESEARCH. (1-6)

Arranged. (Staff)

MICB 499. DISSERTATION RESEARCH. (1-6)

Arranged. (Staff)

MUSIC*

MUSC 008. THEORY OF MUSIC. (3)

Prerequisite, MUSC 007. June 25-Aug. 15; daily, 9:30; NN-208. (Payerle)

MUSC 009F. UNIVERSITY CHORUS. (1)

June 23-Aug. 11; M., 7:00-10:00 p.m.; NN-205. (Traver)

MUSC 016. FUNDAMENTALS FOR THE CLASSROOM TEACHER. (3)

Section 1—Daily, 8:00; NN-205.

(Wilson)

Section 2—Daily, 9:30; NN-205.

(Wilson)

MUSC 020. SURVEY OF MUSIC LITERATURE. (3)

Open to all students except music and music-education majors, and may be
 taken to satisfy the fine arts option in the General Education Program.

Section 1—M.T.Th.F., 8:00; NN-208.

(Shreiber)

Section 2—M.T.Th.F., 11:00; NN-208.

(Payerle)

MUSC 071. ADVANCED THEORY OF MUSIC. (4)

Prerequisite, MUSC 70. June 25-Aug. 15; daily, 9:30; NN-210. (Shreiber)

*For Music Education courses, please see page 77.

- MUSC S147. ORCHESTRATION. (2-3)
Prerequisite, MUSC 071. Daily, 2:00; NN-202. (Gallagher)
- MUSC 164. SOLO VOCAL LITERATURE. (3)
Prerequisites, MUSC 120, 121, or the equivalent. Daily, 9:30; NN-304. (Helm)
- MUSC 167. SYMPHONIC MUSIC. (3)
Prerequisites, MUSC 120, 121, or the equivalent. Daily, 12:30; NN-301. (Helm)
- MUSC 201. SEMINAR IN MUSIC: SCHOENBERG. (3)
Daily, 8:00; NN-304. (McCorkle)
- MUSC 210. FACTORS IN MUSICAL LEARNING. (3)
Daily, 11:00; NN-210. (Taylor)
- MUSC 211. SPECIAL STUDIES IN MUSIC. (3)
Daily, 12:30; NN-210. (McCorkle)
- MUSC 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- MUSC 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

APPLIED MUSIC

Arranged. A student taking applied music for the first time at this University should register for MUSC 999. He will receive the proper classification at the end of the summer session.

Every student taking an applied music course should, in addition to registering for the proper course number, indicate the instrument chosen by adding a section letter as follows:

A. Piano	G. Flute	M. Trombone
B. Voice	I. Clarinet	N. Tuba
C. Violin	K. Horn	P. Organ
D. Viola	L. Trumpet	R. Saxophone

- MUSC 012, 013, 052, 053, 112, 113, 152, 153, 212, 213, 312, 313, 314, 999.
APPLIED MUSIC. (2 each course)
Hours to be arranged with instructor on first day of classes, NN-201. Prerequisite, the next lower course on the same instrument. One and one-half hours of lesson time and a minimum of twelve practice hours per week for eight weeks. Supplementary fee of \$40.00 for each course. (Staff)

PHILOSOPHY

- PHIL 001. INTRODUCTORY TO PHILOSOPHY. (3)
Section 1—M.T.Th.F., 9:30; T-202. (Celarier)
Section 2—M.T.Th.F., 12:30; T-202. (Leshner)
Section 3—M.W., 7:00-9:45 p.m.; Q19A. (Pasch)
- PHIL 041. ELEMENTARY LOGIC AND SEMANTICS. (3)
Section 1—M.T.Th.F., 9:30; T-5. (Kress)
Section 2—M.T.Th.F., 11:00; A-52. (Kress)
- PHIL 045. ETHICS. (3)
M.T.Th.F., 11:00; T-201. (Varnedoe)
- PHIL 055. SYMBOLIC LOGIC I. (3)
M.T.Th.F., 11:00; T-202. (Celarier)

- PHIL 102. MODERN PHILOSOPHY. (3)
Prerequisites, 6 hours of Philosophy. M.T.Th.F., 9:30; T-203. (Varnedoe)
- PHIL 154. POLITICAL AND SOCIAL PHILOSOPHY. (3)
M.T.Th.F., 9:30; T-102. (Staff)
- PHIL 194. TOPICAL INVESTIGATIONS. (1-3)
Arranged. (Staff)
- PHIL 256. SEMINAR IN THE PROBLEMS OF PHILOSOPHY. (3)
Arranged. (Staff)
- PHIL 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- PHIL 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

PHYSICS AND ASTRONOMY

- ASTR 001. INTRODUCTION TO ASTRONOMY. (3)
June 25-Aug. 1. Lecture M.T.W., 7:30-9:00 p.m.; Laboratory, Th., 7:30-9:30 p.m.; Z-140. (Staff)
- ASTR 150. SPECIAL PROBLEMS IN ASTRONOMY.
Prerequisite, major in physics or astronomy and/or consent of adviser. Arranged.
Research or special study. Credit according to work accomplished. (Staff)
- ASTR 190. HONORS SEMINAR.
Arranged. Enrollment is limited to students admitted to the Honors Programs in Astronomy. Credit according to work assigned. (Staff)
- ASTR 250. SPECIAL PROBLEMS IN ADVANCED ASTRONOMY. (1-6)
Arranged. Credit according to work assigned. (Staff)
- ASTR 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- ASTR 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)
- PHYS 011. FUNDAMENTALS OF PHYSICS. (4)
Prerequisite, entrance credit in trigonometry or MATH 011 or concurrent enrollment in MATH 018. June 25-Aug. 15; daily, 11:00-12:40; Z-171. Laboratory sections T.Th., 9:00-11:00 or M.W., 2:00-4:00; Z-362. Lecture and recitation sessions plus 4 hours of laboratory per week. (Eagleson)
- PHYS 030. GENERAL PHYSICS: MECHANICS AND PARTICLE DYNAMICS. (3)
Prerequisite, MATH 020 or concurrent enrollment in MATH 020. June 25-Aug. 15. Lecture, M.T.Th.F., 8:30; Z-171. Recitation, W. 8:00; Z-171; W. 11:00; Z-173; or W. 1:00; Z-173. (Holt)
- PHYS 050, 051. INTERMEDIATE PHYSICS. (4)
Prerequisite, PHYS 011 or 021 or 032 or equivalent. June 25-Aug. 15; daily, 2:00-3:15; Z-071. (Staff)
- PHYS 060. INTERMEDIATE PHYSICS LABORATORY. (2)
Prerequisite, PHYS 011, 016 021 or 032 or equivalent. June 27-Aug.15; M.F., 8:00-12:00; Z-319. (Staff)
- PHYS 100. ADVANCED LABORATORY EXPERIMENTS. (2) (N.S.F.)
Prerequisite, PHYS 061 or equivalent. M.F., 8:00-12:00; Z-322. N.S.F. Institute only. (Staff)

- PHYS 140. ATOMIC AND NUCLEAR LABORATORY. (2)
Prerequisite, PHYS 100 or equivalent. June 26-Aug. 14; T.Th., 8:00-12:00;
Z-349. (Anderson)
- PHYS 150. SPECIAL PROBLEMS IN PHYSICS.
Prerequisite, major in PHYS or consent of Department Chairman. Section 1—
Arranged. Research or special study.
- PHYS 150. SPECIAL PROBLEMS IN PHYSICS. (3)
Section 2—M.T.Th.F., 2:00; Z-171. Introduction to Quantum Physics. N.S.F.
Institute only. (Mead, Zapolsky, Gutsche)
- PHYS 190. HONORS PROGRAM.
Arranged. Credit according to work accomplished. Enrollment is limited to
students enrolled in the Honors Programs in PHYS. (Staff)
- PHYS 209. GRADUATE LABORATORY. (3)
June 26-Aug. 14; T.Th., 8:00-1:00; Z-349. (Staff)
- PHYS 230. SEMINAR. (1)
Section 1—Arranged. One 1-hour class per week. (Staff)
- PHYS 230. SEMINAR. (1)
Section 2—W., 2:00-4:00; Z-140. Teaching of College Physics. N.S.F. Insti-
tute only. (Mead)
- PHYS 248. SPECIAL TOPICS IN MODERN PHYSICS. (2)
Arranged. Two 2-hour lectures per week. (Staff.)
- PHYS 250. SPECIAL PROBLEMS IN ADVANCED PHYSICS. (1-6)
Arranged. Credit according to work accomplished. (Staff)
- PHYS 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- PHYS 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)
- PSYCHOLOGY**
- PSYC 001. INTRODUCTION TO PSYCHOLOGY. (3)
Section 1—M.T.Th.F., 8:00; A-52. (Staff)
Section 2—M.T.Th.F., 9:30; A-52. (Teitelbaum)
- PSYC 005. PERSONALITY AND ADJUSTMENT. (3)
Prerequisite, PSYC 001. M.T.Th.F., 8:00; A-321. (Smith)
- PSYC 021. SOCIAL PSYCHOLOGY. (3)
Prerequisite, PSYC 001. M.T.Th.F., 11:00; M-105 (Higgs)
- PSYC 025. CHILD PSYCHOLOGY. (3)
Prerequisite, PSYC 001. M.T.Th.F., 9:30; M-105. (Scholnick)
- PSYC 090. STATISTICAL METHODS IN PSYCHOLOGY. (3)
Prerequisite, PSYC 001 and MATH 001, or 005 or 010 or equivalent. M.T.Th.F.,
9:30; Y-20. (Horton)
- PSYC 131. ABNORMAL PSYCHOLOGY. (3)
Prerequisite, two courses in PSYC. M.T.Th.F., 8:00; M-105. (Scholnick)

PSYC 146. EXPERIMENTAL PSYCHOLOGY: LEARNING MOTIVATION AND PROBLEM SOLVING. (4)

Prerequisite, PSYC 090. Lecture, M.T.Th., 3:30; RR-19. (Thompson)
 Laboratory Section 1—M.T.Th.F., 8:00.
 Laboratory Section 2—M.T.Th.F., 9:30.
 Laboratory Section 3—M.T.Th.F., 11:00.
 Laboratory Section 4—M.T.Th.F., 12:30.

PSYC 151. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES. (3)

Prerequisite, PSYC 150. M.T.Th.F., 8:00; A-50. (Waldrop)

PSYC 180. PHYSIOLOGICAL PSYCHOLOGY. (3)

Prerequisite, PSYC 145 or 146. M.T.Th.F., 11:00; A-50. (Teitelbaum)

PSYC 191. SENIOR SEMINAR. (3)

Prerequisite, Senior standing and consent of instructor. M.T.W., 2:00-3:50; RR-5. (Bartlett)

PSYC 194. INDEPENDENT STUDY IN PSYCHOLOGY. (1-3)

Prerequisites, advanced standing and written consent of individual faculty supervisor. Arranged. (Staff)

PSYC 195S. MINOR PROBLEMS IN PSYCHOLOGY. (1-3)

Prerequisites, advanced standing and written consent of individual faculty supervisor. June 27-Aug. 15; Th.F., 2:00-3:50; M-105. (Bartlett)

PSYC 208. VERBAL BEHAVIOR. (3)

Prerequisite, PSYC 123 and 212. Arranged. (Horton)

PSYC 221. SEMINAR IN COUNSELING PSYCHOLOGY. (3)

Arranged. (Waldrop)

PSYC 221. SEMINAR IN COUNSELING PSYCHOLOGY. (3)

Arranged. (Waldrop)

PSYC 242. SEMINAR IN SOCIAL PSYCHOLOGY. (3)

Arranged. (Higgs)

PSYC 257. SEMINAR IN QUANTITATIVE PSYCHOLOGY. (3)

Prerequisite, PSYC 253. Arranged. (Staff)

PSYC 267. THEORIES OF PERSONALITY. (3)

June 30-Aug. 12; M.T., 7:00-9:00 p.m.; RR-5. (Smith)

PSYC 288. SPECIAL RESEARCH PROBLEMS. (1-4)

Requires graduate standing and consent of individual faculty supervisor. Arranged. (Staff)

PSYC 399. THESIS RESEARCH. (1-6)

Arranged. (Staff)

PSYC 499. DISSERTATION RESEARCH. (1-6)

Arranged. (Staff)

SOCIOLOGY

Sociology 1 or its equivalent is required for all other courses.

SOCY 001. INTRODUCTION TO SOCIOLOGY. (3)

Section 1—M.T.Th.F., 9:30; A-258. (Simons)

Section 2—M.T.Th.F., 11:00; AR-11. (Hirzel)

Section 3—M.T.Th.F., 12:30; RR-19. (Pease)

- SOCY 002. PRINCIPLES OF SOCIOLOGY. (3)
M.T.Th.F., 11:00; A-258. (Lengermann)
- SOCY 052. CRIMINOLOGY. (3)
M.T.Th.F., 8:00; RR-2. (Wilson)
- SOCY 114. THE CITY. (3)
M.T.Th.F., 8:00; RR-23. (Simons)
- SOCY 141. SOCIOLOGY OF PERSONALITY. (3)
M.T.Th.F., 9:30; A-320. (Hunt)
- SOCY 143. FORMAL AND COMPLEX ORGANIZATIONS. (3)
M.T.Th.F., 12:30; RR-113. (Lengermann)
- SOCY 144. COLLECTIVE BEHAVIOR. (3)
M.T.Th.F., 8:00; RR-24. (Simons)
- SOCY 153. JUVENILE DELINQUENCY. (3)
M.T.Th.F., 9:30; A-321. (Staff)
- SOCY 154. CRIME AND DELINQUENCY PREVENTION. (3)
Prerequisite, SOCY 052 or SOCY 153 or consent of instructor. M.T.Th.F.,
11:00; RR-115. (Staff)
- SOCY 155. TREATMENT OF CRIMINALS AND DELINQUENTS IN THE COMMUNITY. (3)
M.T.Th.F., 8:00; RR-115. (Staff)
- SOCY 162. SOCIAL STRATIFICATION. (3)
M.T.Th.F., 11:00; RR-114. (Pease)
- SOCY 186. SOCIOLOGICAL THEORY. (3)
M.T.Th.F., 8:00; RR-114. (Hunt)
- SOCY 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- SOCY 499. DISSERTATION RESEARCH (1-6)
Arranged. (Staff)

ANTHROPOLOGY

- ANTH 001. INTRODUCTION TO ANTHROPOLOGY: ARCHEOLOGY AND PHYSICAL ANTHROPOLOGY. (3)
M.T.Th.F., 9:30; TH-111. (Hoffman)
- ANTH 002. INTRODUCTION TO ANTHROPOLOGY: CULTURAL ANTHROPOLOGY AND LINGUISTICS. (3)
M.T.Th.F., 12:30; TH-111. (Anderson)
- ANTH 101. CULTURAL ANTHROPOLOGY: PRINCIPLES AND PROCESSES. (3)
M.T.Th.F., 11:00; TH-111. (Hoffman)
- ANTH 102. CULTURAL ANTHROPOLOGY: WORLD ETHNOGRAPHY. (3)
M.T.Th.F., 8:00; TH-111. (Anderson)
- ANTH 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- ANTH 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

SPEECH

- SPCH 001. PUBLIC SPEAKING. (3)
Prerequisite for advanced speech courses.
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| Section 1—M.T.Th.F., 8:00; NN-22A. | (Wolvin) |
| Section 2—M.T.Th.F., 8:00; NN-22B. | (Zima) |
| Section 3—M.T.Th.F., 9:30; NN-22B. | (Staff) |
| Section 4—M.T.Th.F., 9:30; NN-102. | (Linkow) |
| Section 5—M.T.Th.F., 11:00; NN-22B. | (Landfield) |
| Section 6—M.T.Th.F., 11:00; NN-122. | (Scher) |
| Section 7—M.T.Th.F., 12:30; NN-22B. | (Staff) |
| Section 8—June 25-Aug. 13; M.W., 7:00-9:50 p.m.; NN-22B. | (Starcher) |
- SPHR 003. FUNDAMENTALS OF GENERAL AMERICAN SPEECH. (3)
Daily, 9:30; NN-22A. (Blom)
- DART 008. ACTING. (3)
M.T.Th.F., 11:00; NN-155. (O'Leary)
- SPCH 013. ORAL INTERPRETATION. (3)
M.T.Th.F., 11:00; NN-102. (Lea)
- DART 014. STAGECRAFT. (3)
M.T.Th.F., 11:00; NN-57. (Vaughan)
- DART 016. INTRODUCTION TO THE THEATRE. (3)
Daily, 9:30; NN-55. (Pugliese)
- SPHR 105. SPEECH HANDICAPPED SCHOOL CHILDREN. (3)
Daily, 11:00; NN-13. (Blom)
- SPHR 106. CLINICAL PRACTICE. (1-3)
Prerequisite, SPCH 105. June 27-Aug. 1; T.F., 12:30 and arranged; NN-22A.
(Hawbecker)
- SPCH 111. SEMINAR. (3)
Prerequisites, senior standing and consent of instructor. Arranged. (Strausbaugh)
- RATV 115. RADIO AND TELEVISION IN RETAILING. (3)
M.T.Th.F., 8:00; NN-122. (Kirkley)
- SPHR 120. PATHOLOGY. (3)
Prerequisite, SPHR 105. Daily, 9:30; NN-4. (Staff)
- DART 127. CHILDREN'S DRAMATICS. (3)
M.T.Th.F., 9:30; NN-122. (McKerrow)
- DART 139. THEATRE WORKSHOP. (3)
Prerequisite, DART 8 or 14. Arranged. (Landfield)
- RATV 140. PRINCIPLES OF TELEVISION PRODUCTION. (3)
M.T.Th.F., 11:00; NN-44. (McCleary)
- RATV 149. TELEVISION WORKSHOP. (3)
Prerequisites, SPCH 22, 140 and 148, or consent of instructor. M.T.Th.F.,
9:30; NN-44. (Aylward)
- SPHR 201K. SPECIAL PROBLEMS SEMINAR: GROUP SPEECH THERAPY. (3)
Prerequisites, six hours in speech pathology and consent of instructor. Daily,
9:30; NN-13. (Staff)

- SPHR 211A. ADVANCED CLINICAL PRACTICE: SPEECH THERAPY. (1-3)
Prerequisites, 12 hours of speech pathology and audiology. Arranged.
(Hawbecker)
- SPHR 211B. ADVANCED CLINICAL PRACTICE: AUDIOLOGY. (1-3)
Prerequisites, 12 hours of audiology and pathology. Arranged. (Doudna)
- SPHR 221. COMMUNICATION THEORY AND SPEECH AND HEARING PROBLEMS. (3)
Prerequisites, 6 hours in speech pathology and audiology and consent of instructor. Daily, 11:00; NN-4. (Hendricks)
- SPHR 226. LANGUAGE PROBLEMS OF THE EXCEPTIONAL CHILD. (3)
Prerequisites, 6 hours of speech pathology. Daily, 11:00; NN-22A. (Staff)
- SPCH 290. INDEPENDENT STUDY. (1-3)
Prerequisite, consent of instructor. Arranged. (Staff)
- SPHR 301. INDEPENDENT STUDY IN SPEECH AND HEARING SCIENCE. (1-6)
Prerequisite, 30 hours of graduate study in speech and hearing science. Arranged. (Staff)
- SPCH 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- SPCH 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

ZOOLOGY

- ZOOL 001. GENERAL ZOOLOGY. (4)
ZOOL 001 and 002 satisfy the freshman premedical requirement in general biology. Lecture, M.T.Th.F., 8:00; T-21. (Kaufman)
Laboratory Section 1—T.Th., 9:30-11:30; CC-101. (Staff)
Laboratory Section 2—T.Th., 9:30-11:30; CC-107. (Staff)
Laboratory Section 3—T.Th., 1:00-3:00; CC-101. (Staff)
Laboratory Section 4—T.Th., 1:00-3:00; CC-107. (Staff)
- ZOOL 002. THE ANIMAL PHYLA. (4)
Prerequisite ZOOL 001 or BOTN 001. Lecture, M.T.Th.F., 8:00-9:00; F-112. (Croshaw)
Laboratory Section 1—M.T.Th.F., 9:00-11:00; CC-110. (Staff)
Laboratory Section 2—M.T.Th.F., 9:00-11:00; CC-115. (Staff)
- ZOOL 005. COMPARATIVE VERTEBRATE MORPHOLOGY. (4)
Prerequisites, ZOOL 001 and 002 or equivalent. Lecture, M.T.Th.F., 11:00-12:00; T-5. Laboratory, M.T.Th.F., 8:00-11:00. (Ramm)
- ZOOL 055S. DEVELOPMENT OF THE HUMAN BODY. (2)
June 27-Aug. 15; M.F., 8:00; T-10. (Smith)
- ZOOL 110. GENERAL PARASITOLOGY. (4)
Prerequisites, two years of ZOOL and one year of CHEM or permission of instructor. Lecture, M.T.Th.F., 11:00-12:00; T-103. Laboratory, M.T.Th.F., 8:00-11:00. (Haley)
- ZOOL 118. INVERTEBRATE ZOOLOGY. (4)
Prerequisite, one year of ZOOL. Open only to participants in N.S.F. Institute. Lecture, M.T.Th.F., 8:00-9:00; T-103. Laboratory, M.T.Th.F., 9:00-12:00. (Linder)

- ZOOL 125S. FISHERY BIOLOGY AND MANAGEMENT. (5)
Prerequisite, one year of zoology and permission of instructor. Five 75-minute lectures and four 3-hour laboratories each week for 6 weeks. Offered at the Chesapeake Biological Laboratory, June 25 to Aug. 2. Address inquiries to: Director, Chesapeake Biological Laboratory, Box 38, Solomons, Maryland.
(Koo and Faculty)
- ZOOL 128. ZOOGEOGRAPHY. (3)
Prerequisites, ZOOL 001, 002, and 005 or equivalent. M.T.Th.F., 12-30; RR-23.
(Potter)
- ZOOL 150. SPECIAL PROBLEMS IN ZOOLOGY. (1 or 2)
Prerequisites, major in zoology or biological sciences, a minimum of 3.0 cumulative average in the biological sciences, and consent of instructor. Arranged.
(Staff)
- ZOOL 152H. HONORS INDEPENDENT STUDY. (1-4)
Prerequisite, participation in honors program. Arranged. (Staff)
- ZOOL 153H. HONORS RESEARCH. (1-2)
Prerequisite, participation in honors program. Arranged. (Staff)
- ZOOL 208. SPECIAL PROBLEMS IN ZOOLOGY.
Arranged. (Staff)
- ZOOL 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- ZOOL 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

BUSINESS AND PUBLIC ADMINISTRATION

BUSINESS ADMINISTRATION

- BSAD 000. MANAGERIAL MATHEMATICS WORKSHOP. (0)
June 26-Aug. 14; M.Th., 7:00-9:30 p.m.; Q-27. This course is billed for 3 credit hours.
(Mattheiss)
- BSAD 010. BUSINESS ENTERPRISE. (3)
Section 1—M.T.Th.F., 11:00; Q-129. (Staff)
Section 2—M.T.Th.F., 11:00; Q-133. (Staff)
- BSAD 020. PRINCIPLES OF ACCOUNTING. (3)
Prerequisite, sophomore standing.
Section 1—M.T.Th.F., 9:30; Q-122. (Staff)
Section 2—M.W., 7:00-9:50 p.m.; Q-123. (Staff)
- BSAD 021. PRINCIPLES OF ACCOUNTING. (3)
Prerequisite, sophomore standing.
Section 1—M.T.Th.F., 8:00; Q-104. (Staff)
Section 2—M.T.Th.F., 8:00; A-320. (Staff)
- BSAD 110. INTERMEDIATE ACCOUNTING. (3)
Prerequisite, BSAD 021. M.T.Th.F., 8:00; Q-133. (Staff)
- BSAD 111. INTERMEDIATE ACCOUNTING. (3)
Prerequisite, BSAD 021. M.T.Th.F., 8:00; Q-122. (Edelson)
- BSAD 122. AUDITING THEORY AND PRACTICE. (3)
Prerequisite, BSAD 111. M.T.Th.F., 8:00; Q-123. (Staff)

- BSAD 123. INCOME TAX ACCOUNTING. (3)
Prerequisite, BSAD 021. M.T.Th.F., 9:30; Q-129. (Edelson)
- BSAD 124. ADVANCED ACCOUNTING. (3)
Prerequisite, BSAD 111. M.T.Th.F., 11:00; Q-122. (Staff)
- BSAD 130. BUSINESS STATISTICS I. (3)
Prerequisite, junior standing.
Section 1—M.T.Th.F., 8:00; Q-103. (Staff)
Section 2—M.T.Th.F., 9:30; Q-103. (Staff)
Section 3—M.T.Th.F., 11:00; Q-103. (Staff)
Section 4—M.T.Th.F., 12:30; Q-103. (Staff)
Section 5—M.T.Th.F., 2:00; Q-103. (Staff)
Section 6—M.T.Th.F., 3:30; Q-103. (Staff)
- BSAD 140. BUSINESS FINANCE. (3)
Section 1—M.T.Th.F., 8:00; F-104. (Staff)
Section 2—M.T.Th.F., 8:00; F-103. (Staff)
- BSAD 149. MARKETING PRINCIPLES AND ORGANIZATION. (3)
Section 1—M.T.Th.F., 9:30; Q-123. (Ashman)
Section 2—M.T.Th.F., 9:30; F-104. (Staff)
- BSAD 151. ADVERTISING. (3)
Prerequisite, BSAD 149 or consent of instructor. M.T.Th.F., 12:30; Q-123. (Staff)
- BSAD 160. PERSONNEL MANAGEMENT I. (3)
Section 1—M.T.Th.F., 12:30; Q-129. (Staff)
Section 2—M.T.Th.F., 12:30; Q-130. (Staff)
- BSAD 163. LABOR RELATIONS. (3)
M.T.Th.F., 9:30; Q-133. (Staff)
- BSAD 168. MANAGEMENT AND ORGANIZATION THEORY. (3)
Section 1—M.T.Th.F., 11:00; Q-28. (Staff)
Section 2—M.T.Th.F., 11:00; Q-130. (Staff)
- BSAD 170. PRINCIPLES OF TRANSPORTATION. (3)
M.T.Th.F., 8:00; G-109B. (Staff)
- BSAD 180. BUSINESS LAW. (3)
Section 1—M.T.Th.F., 8:00; Q-28. (Dawson)
Section 2—M.T.Th.F., 8:00; G-205. (Staff)
- BSAD 181. BUSINESS LAW. (3)
M.T.Th.F., 9:30; G-109B. (Dawson)
- BSAD 189. BUSINESS AND GOVERNMENT. (3)
Section 1—M.T.Th.F., 11:00; G-109A. (Staff)
Section 2—M.T.Th.F., 11:00; Q-104. (Staff)
- BSAD 199. BUSINESS POLICIES. (3)
Prerequisite, senior standing.
Section 1—M.T.Th.F., 8:00; RR-113. (Staff)
Section 2—M.T.Th.F., 9:30; G-109A. (Staff)
Section 3—M.T.Th.F., 9:30; F-112. (Staff)
Section 4—M.T.Th.F., 9:30; Q-28. (Staff)
- BSAD 257. THEORY IN MARKETING. (3)
June 25-Aug 13; M.W., 12:30-3:00; Q-209. (Staff)

BSAD 260. MANAGEMENT PLANNING AND CONTROL SYSTEMS. (3)
 June 25-Aug. 15; W.F., 3:00-5:30; Q-209. (Lamone)

BSAD 264. BEHAVIORAL FACTORS IN MANAGEMENT. (3)
 June 25-Aug. 13; T.W., 3:00-5:30; Q-232. (Staff)

BSAD 282. PRODUCT, PRODUCTION AND PRICING POLICY. (3)
 June 25-Aug. 13; M.W., 12:30-3:00; Q-232. (Staff)

BSAD 298. INDEPENDENT STUDY IN BUSINESS ADMINISTRATION. (3)
 Arranged. (Staff)

BSAD 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)

BSAD 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

ECONOMICS

ECON 004. ECONOMIC DEVELOPMENTS. (3)
 Section 1—M.T.Th.F., 9:30; C-79. (Staff)
 Section 2—M.T.Th.F., 11:00; Q-107. (Staff)

ECON 031. PRINCIPLES OF ECONOMICS. (3)
 Prerequisite, sophomore standing.
 Section 1—M.T.Th.F., 8:00; Q-107. (Staff)
 Section 2—M.T.Th.F., 9:30; C-80. (Staff)

ECON 032. PRINCIPLES OF ECONOMICS. (3)
 Prerequisite, ECON 031.
 Section 1—M.T.Th.F., 8:00; Q-129. (Staff)
 Section 2—M.T.Th.F., 9:30; C-81. (Staff)

ECON 037. FUNDAMENTALS OF ECONOMICS. (3)
 Prerequisite, sophomore standing. Not open to students who have credit in
 ECON 031 and 032. Not open to B.P.A. students.
 Section 1—M.T.Th.F., 8:00; C-76. (Staff)
 Section 2—M.T.Th.F., 9:30; Q-209. (Staff)
 Section 3—M.T.Th.F., 11:00; Q-132. (Staff)

ECON 102. NATIONAL INCOME ANALYSIS. (3)
 Prerequisite, ECON 032. Required for ECON majors. M.T.Th.F., 8:00; Q-232.
 (Staff)

ECON 105. INTRODUCTION TO ECONOMIC DEVELOPMENT OF UNDER-DEVELOPED
 AREAS. (3)
 Prerequisites, ECON 032 or 037. M.T.Th.F., 9:30; C-90. (Staff)

ECON 130. MATHEMATICAL ECONOMICS. (3)
 Prerequisites, ECON 102 and 132, and one year of college mathematics.
 M.T.Th.F., 9:30; C-215. (Staff)

ECON 131. COMPARATIVE ECONOMIC SYSTEMS. (3)
 Prerequisite, ECON 032 or 037. M.T.Th.F., 9:30; C-98. (Staff)

ECON 132. INTERMEDIATE PRICE THEORY. (3)
 Prerequisite, ECON 032. Required for economics majors. M.T.Th.F., 11:00;
 T-118. (Staff)

- ECON 140. MONEY AND BANKING. (3)
Prerequisite, ECON 032 or 037. M.T.Th.F., 8:00; T-201. (Staff)
- ECON 148. INTERNATIONAL ECONOMICS. (3)
Prerequisite, ECON 032 or 037. M.T.Th.F., 9:30; C-93. (Staff)
- ECON 160. LABOR ECONOMICS. (3)
Prerequisite, ECON 032 or 037. M.T.Th.F. 11:00; Q-107. (Staff)
- ECON 170. INDUSTRIAL ORGANIZATION. (3)
Prerequisite, ECON 032 or 037. M.T.Th.F., 9:30; Q-133. (Staff)
- ECON 237. SELECTED TOPICS IN ECONOMICS. (3)
Arranged. (Staff)
- ECON 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- ECON 499. DISSERTATION RESEARCH. (1-6) (Staff)

GEOGRAPHY

- GEOG 001. INTRODUCTION TO GEOGRAPHY. (3)
Lecture, M.T.Th., 11:00; Q-29. (Kierney)
Discussion Section 1—F., 8:00; Q-29.
Discussion Section 2—F., 9:00; Q-29.
Discussion Section 3—F., 11:00; Q-29.
Discussion Section 4—F., 12:30; Q-29.
- GEOG 010. INTRODUCTION TO PHYSICAL GEOGRAPHY. (3)
M.T.Th.F., 8:00; Q-210. (Chaves)
- GEOG 011. INTRODUCTION TO HUMAN GEOGRAPHY. (3)
M.T.Th.F., 9:30; Q-228. (Fonaroff)
- GEOG 015. INTRODUCTION TO ECONOMIC GEOGRAPHY. (3)
M.T.Th.F., 11:00; Q-228. (Brodsky)
- GEOG 103. GEOGRAPHIC CONCEPTS AND RESOURCE MATERIALS. (3)
M.T.Th.F., 8:00; Q-228. (Kierney)
- GEOG 109. INTRODUCTION TO RESEARCH IN GEOGRAPHY. (3)
June 26-Aug. 14, T.Th., 1:00-3:00; Q-209. (Fonaroff)
- GEOG 110. ECONOMIC AND CULTURAL GEOGRAPHY OF CARIBBEAN AMERICA. (3)
M.T.Th.F., 12:30; Q-228. (Chaves)
- GEOG 118. GEOMORPHOLOGY. (3)
M.T.Th.F., 11:00; Q-210. (Lewis)
- GEOG 130. ECONOMIC AND POLITICAL GEOGRAPHY OF EASTERN ASIA. (3)
M.T.Th.F., 11:00; Q-209. (Hu)
- GEOG 145. SYSTEMATIC AND REGIONAL CLIMATOLOGY. (3)
M.T.Th.F., 8:00; Q-209. (Lewis)
- GEOG 180. SCIENTIFIC METHODOLOGY AND HISTORY OF GEOGRAPHY. (3)
June 26-Aug. 14, T.Th., 7:00-9:15 p.m.; Q-209. (Hu)
- GEOG 197. URBAN GEOGRAPHY. (3)
M.T.Th.F., 9:30; Q-210. (Brodsky)

- GEOG 290. SELECTED TOPICS IN GEOGRAPHY. (1-6)
Arranged. (Staff)
- GEOG 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- GEOG 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

GOVERNMENT AND POLITICS

- GVPT 001. AMERICAN GOVERNMENT. (3)
Section 1—M.T.Th.F., 9:30; Q-211. (Lanning)
Section 2—M.T.Th.F., 9:30; Q-19A. (Hathorn)
Section 3—M.T.Th.F., 11:00; Q-211. (McGregor)
Section 4—M.T.Th.F., 12:30; Q-211. (Ingles)
- GVPT. 003. PRINCIPLES OF GOVERNMENT AND POLITICS. (3)
M.T.Th.F., 8:00; Q-211. (Glendening)
- GVPT 020. INTRODUCTION TO POLITICAL BEHAVIOR. (3)
Prerequisite, GVPT 001. M.T.Th.F., 9:30; Q-213. (Devine)
- GVPT 040. POLITICAL IDEOLOGIES. (3)
Prerequisite, GVPT 001. M.T.Th.F., 8:00; Q-130. (Terchek)
- GVPT 097. GOVERNMENTS AND POLITICS OF EUROPE. (3)
Prerequisite, GVPT 001. M.T.Th.F., 9:30; Q-104. (Oliver)
- GVPT 101. INTERNATIONAL POLITICAL RELATIONS. (3)
M.T.Th.F., 11:00; Q-123. (Lanning)
- GVPT 104. INTER-AMERICAN RELATIONS. (3)
Prerequisite, GVPT 001. M.T.Th.F., 9:30; RR-17. (Barber)
- GVPT 106. AMERICAN FOREIGN RELATIONS. (3)
Prerequisite, GVPT 001. M.T.Th.F., 12:30; Q-133. (Barber)
- GVPT 109. FOREIGN POLICY OF THE U.S.S.R. (3)
Prerequisite, GVPT 001. M.T.Th.F., 12:30; Q-213. (Oliver)
- GVPT 110. PRINCIPLES OF PUBLIC ADMINISTRATION. (3)
Prerequisite, GVPT 001. M.T.Th.F., 8:00; Q-213. (Stevens)
- GVPT 133. THE JUDICIAL PROCESS. (3)
Prerequisite GVPT 001. M.T.Th.F., 11:00; Q-213. (Byrd)
- GVPT 142. RECENT POLITICAL THEORY. (3)
Prerequisite, GVPT 001. M.T.Th.F., 11:00; Q-19A. (Terchek)
- GVPT 154. PROBLEMS OF WORLD POLITICS. (3)
Prerequisite, GVPT 001. M.T.Th.F., 9:30; Q-130. (Koury)
- GVPT 174. POLITICAL PARTIES. (3)
Prerequisite, GVPT 001. M.T.Th.F., 11:00; Q-132. (Devine)
- GVPT 203. FUNCTIONAL PROBLEMS IN INTERNATIONAL RELATIONS. (3)
June 26-Aug. 14; M.Th., 7:00-9:30 p.m.; Q-369. (McNelly)
- GVPT 204. AREA PROBLEMS IN INTERNATIONAL RELATIONS. (3)
June 26-Aug. 14; M.Th., 12:30-3:00 p.m.; Q-369. (Jacobs)

~~GVPT 207.~~ SEMINAR IN COMPARATIVE GOVERNMENTAL INSTITUTIONS. (3)
 June 27-Aug. 15; T.F., 12:30-3:00 p.m.; Q-369. (Koury)

~~GVPT 208.~~ SEMINAR IN THE GOVERNMENT AND POLITICS OF EMERGING
 NATIONS. (3)
 June 27-Aug. 15; T.F., 3:00-5:30 p.m.; Q-369. (Harrison)

GVPT 213. PROBLEMS OF PUBLIC ADMINISTRATION. (3)
 June 26-Aug. 14; M.Th., 3:00-5:30 p.m.; Q-369. (Stevens)

GVPT 218. SEMINAR IN URBAN ADMINISTRATION. (3)
 June 26-Aug. 14; M.Th., 12:30-3:00 p.m.; Q-504. (Glendening)

GVPT 225. MAN AND THE STATE. (3)
 June 27-Aug. 15; T.F., 12:30-3:00; Q-504. (Byrd)

GVPT 261. PROBLEMS IN AMERICAN GOVERNMENT AND POLITICS. (3)
 June 26-Aug. 14; M.Th., 7:00-9:30 p.m.; Q-504. (Hathorn)

GVPT 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)

GVPT 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

INFORMATION SYSTEMS MANAGEMENT

ISM 101. ELECTRONIC DATA PROCESSING. (3)
 Prerequisites, junior standing and MATH 011. M.T.Th.F., 8:00; Q-6. (Staff)

ISM 102. ELECTRONIC DATA PROCESSING APPLICATION. (3)
 Prerequisite, ISM 101 or consent of instructor. M.T.Th.F., 9:30; Q-6. (Staff)

JOURNALISM

JOUR 010. INTRODUCTION TO JOURNALISM. (3)
 Prerequisites, at least average grade of C in ENGL 001 or 021; ability to type
 at least 40 word per minute. Daily, 8:00; G-304. (Staff)

JOUR 100. NEWS REPORTING. (3)
 Prerequisite, ability to type 30 words per minute. Daily, 9:30; G-304. (Staff)

JOUR 152. ADVERTISING COPY AND LAYOUT. (3)
 Daily, 8:00; G-307. (Staff)

JOUR 160. NEWS EDITING. (3)
 Daily, 11:00; G-305. (Staff)

JOUR 165. FEATURE WRITING. (3)
 Daily, 9:30; G-205. (Staff)

JOUR 181. NEWS PHOTOGRAPHY. (3)
 Daily, 9:00-11:00; G-208. (Staff)

EDUCATION

COUNSELING AND PERSONNEL SERVICES

EDCP 161. INTRODUCTION TO COUNSELING AND PERSONNEL SERVICES. (3)
 Section 1—Daily, 8:00; OO-301. (Staff)
 Section 2—Daily, 11:00; OO-303. (Staff)

- EDCP 172. MENTAL HYGIENE IN THE CLASSROOM. (3)
 Section 1—Daily, 8:00; NN-13. (Staff)
 Section 2—Daily, 12:30; OO-303. (Grundig)
- EDCP 187. FIELD EXPERIENCE IN EDUCATION. (1-4)
 Arranged. (Staff)
- EDCP 189A. GROUP COUNSELING. (3)
 Daily, 9:30; OO-223. (Draeger)
- EDCP 224. APPRENTICESHIP IN EDUCATION. (2-6)
 Arranged. (Staff)
- EDCP 243. OCCUPATIONAL CHOICE—THEORY AND PRACTICE. (3)
 Daily, 11:00; OO-301. (Ehrle)
- EDCP 249. PERSONALITY THEORIES IN EDUCATION. (3)
 Daily, 8:00; OO-303. (Greenberg)
- EDCP 250. CASES IN APPRAISAL. (3)
 Daily, 9:30; OO-303. (Stipek)
- EDCP 254. ORGANIZATION AND ADMINISTRATION OF PERSONNEL SERVICES. (2)
 Daily, 11:00; C-97. (Greenberg)
- EDCP 260. COUNSELING—THEORETICAL FOUNDATIONS AND PRACTICE. (3)
 Section 1—Daily, 9:30; FF-24. (Staff)
 Section 2—Daily, 11:00; FF-24. (Staff)
- EDCP 261. PRACTICUM IN COUNSELING. (2)
 Section 1—Daily, 9:30; OO-318B. (Grundig)
 Section 2—Daily, 12:30; OO-318B. (Draeger)
- EDCP 271. COUNSELING AND PERSONNEL SERVICES SEMINAR. (2)
 Daily, 12:30; OO-312. (Stipek)
- EDCP 288. SPECIAL PROBLEMS IN EDUCATION. (1-6)
 Arranged. (Staff)
- EDCP 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- EDCP 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)
- EARLY CHILDHOOD—ELEMENTARY EDUCATION**
- EDEL 105B. SCIENCE IN THE ELEMENTARY SCHOOL. (3)
 Daily, 9:30; OO-24. (Williams)
- EDEL 115. ACTIVITIES AND MATERIALS IN EARLY CHILDHOOD EDUCATION. (3)
 Daily, 11:00; OO-105. (Stant)
- EDEL 116. MUSIC IN EARLY CHILDHOOD EDUCATION. (3)
 Daily, 9:30; NN-301. (Shelley)
- EDEL 121B. LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. (3)
 Section 1—Daily, 8:00; OO-26. (Schumacher)
 Section 2—Daily, 9:30; J-150. (O'Donnell)
- EDEL 122B. SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. (3)
 Section 1—Daily, 9:30; OO-222. (O'Neill)
 Section 2—Daily, 11:00; FF-17. (Weaver)

- EDEL 123A. THE CHILD AND THE CURRICULUM. (3)
Daily, 9:30; AA-16. (Stant)
- EDEL 123B. THE CHILD AND THE CURRICULUM. (3)
Daily, 8:00; FF-16. (Gantt)
- EDEL 125. ART IN THE ELEMENTARY SCHOOL. (3)
Daily, 8:00; NN-238. (Longley)
- EDEL 126A. MATHEMATICS IN THE ELEMENTARY SCHOOL. (3)
Daily, 8:00; AA-12. (Martin)
- EDEL 126B. MATHEMATICS IN THE ELEMENTARY SCHOOL. (3)
Section 1—M.T.Th.F., 8:00; G-309. (Schindler)
Section 2—M.T.Th.F., 9:30; G-309. (Schindler)
- EDEL 152. LITERATURE FOR CHILDREN AND YOUNG PEOPLE. (3)
Daily, 11:00; FF-16. (Staff)
- EDEL 153B. THE TEACHING OF READING. (3)
Section 1—Daily, 9:30; FF-16. (Staff)
Section 2—Daily, 12:30; OO-30. (Staff)
- EDEL 188. SPECIAL PROBLEMS IN EDUCATION. (1-3)
Prerequisite, consent of instructor. Course cards must have the title of the problem and the name of the instructor who has approved it. Arranged.
- EDEL 189A. WORKSHOP FOR COLLEGE TEACHERS OF EARLY CHILDHOOD EDUCATION. (3)
June 25-July 11; Daily, 12:30-3:30; OO-223. (Hymes)
- EDEL 189K. EUROPEAN TRAVEL SEMINAR. (6)
June 25-Aug. 8. (Herman)
- EDEL 200. SEMINAR IN ELEMENTARY EDUCATION. (2)
June 25-Aug. 1; M.W.F., 11:00; FF-18. (O'Neill)
- EDEL 205. PROBLEMS IN TEACHING SCIENCE IN ELEMENTARY SCHOOLS. (3)
Daily, 8:00; OO-125. (Williams)
- EDEL 211. THE YOUNG CHILD IN THE COMMUNITY. (3)
Daily, 8:00; FF-7. (Amershek)
- EDEL 212. THE YOUNG CHILD IN SCHOOL. (3)
Daily, 9:30; FF-7. (Amershek)
- EDEL 221. PROBLEMS IN TEACHING LANGUAGE ARTS IN ELEMENTARY SCHOOL. (3)
Daily, 8:00; OO-321. (O'Donnell)
- EDEL 222. PROBLEMS OF TEACHING SOCIAL STUDIES IN ELEMENTARY SCHOOLS. (3)
Daily, 9:30; FF-17. (Weaver)
- EDEL 227. DIAGNOSIS AND REMEDIATION OF ARITHMETIC DISABILITIES. (3)
Prerequisite, consent of instructor. Daily, arranged; OO-227. (Ashlock)
- EDEL 288. SPECIAL PROBLEMS IN EDUCATION. (1-3)
Prerequisite, consent of instructor. Course cards must have the title of the problem and the name of the instructor who has approved it. Arranged.
- EDEL 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- EDEL 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

EDUCATIONAL ADMINISTRATION, SUPERVISION
AND CURRICULUM

- EDAD 189A. WORKSHOP ON HUMAN RELATIONSHIPS IN EDUCATIONAL
ADMINISTRATION. (6)
Daily, 9:00-3:30; John F. Kennedy Senior High School. (Newell)
- EDAD 210. THE ORGANIZATION AND ADMINISTRATION OF PUBLIC EDUCATION. (3)
M.T.Th.F., 8:00; OO-221. (Staff)
- EDAD 211. ORGANIZATION AND ADMINISTRATION OF SECONDARY SCHOOLS. (3)
M.T.Th.F., 9:30; OO-221. (J. P. Anderson)
- EDAD 216. PUBLIC SCHOOL SUPERVISION. (3)
M.T.Th.F., 11:00; OO-221. (J. P. Anderson)
- EDAD 217. ADMINISTRATION AND SUPERVISION IN ELEMENTARY SCHOOLS. (3)
Daily, 11:00; FF-19. (Staff)
- EDAD 225. SCHOOL PUBLIC RELATIONS. (3)
M.T.Th.F., 8:00; Q-504. (van Zwoll)
- EDAD 227. PUBLIC SCHOOL PERSONNEL ADMINISTRATION. (3)
M.T.Th.F., 9:30; Q-504. (van Zwoll)
- EDAD 234. THE SCHOOL CURRICULUM. (3)
Daily, 9:30; FF-20. (Staff)
- EDAD 235. PRINCIPLES OF CURRICULUM DEVELOPMENT. (3)
Daily, 8:00; AA-14. (Staff)
- EDAD 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- EDAD 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

GENERAL EDUCATION

- EDUC 102. HISTORY OF EDUCATION IN THE UNITED STATES. (3)
M.T.Th.F., 11:00; OO-220. (Male)
- EDUC 107. PHILOSOPHY OF EDUCATION. (3)
M.T.Th.F., 9:30; OO-105. (Noll)
- EDUC 110. HUMAN DEVELOPMENT AND LEARNING. (6)
Section 1—M.T.Th.F., 8:00-10:50; OO-127. In-service teachers only.
(McDaniels)
Section 2—M.T.Th.F., 9:30-12:20; F-101. Regular undergraduates. (Flatter)
- EDUC 111. FOUNDATIONS OF EDUCATION. (3)
Section 1—M.T.Th.F., 8:00; OO-36. (Lindsay)
Section 2—M.T.Th.F., 8:00; OO-223. (Huden)
Section 3—M.T.Th.F., 9:30; OO-301. (Agre)
Section 4—M.T.Th.F., 9:30; J-270. (Lindsay)
Section 5—M.T.Th.F., 9:30; J-272. (Noll)
Section 6—M.T.Th.F., 11:00; C-79. (Agre)

- EDUC 147. AUDIO-VISUAL EDUCATION. (3)
 Section 1—Daily, 8:00; OO-4. (Schramm)
 Section 2—Daily, 9:30; OO-4. (Wedberg)
 Section 3—Daily, 11:00; OO-4. (Staff)
- EDUC 148. INSTRUCTIONAL MEDIA SERVICES. (3)
 Daily, 8:00; AA-16. (Wedberg)
- EDUC 149. PROGRAMMED INSTRUCTION. (3)
 Daily, 9:30; F-103. (Schramm)
- EDUC 150. EDUCATION MEASUREMENT. (3)
 Section 1—Daily, 8:00; OO-30. (Larson)
 Section 2—M.T.Th.F., 9:30; OO-125. (Sullins)
 Section 3—M.T.Th.F., 11:00; OO-223. (Johnson)
 Section 4—Daily, 12:30; OO-307. (Milhollan)
- EDUC 151. STATISTICAL METHODS IN EDUCATION. (3)
 Section 1—M.T.Th.F., 8:00; OO-125. (Sullins)
 Section 2—M.T.Th.F., 9:30; OO-220. (Johnson)
- EDUC 155. LABORATORY PRACTICE IN READING. (3)
 Prerequisite, consent of professor. Arranged. (Staff)
- EDUC 157. CORRECTIVE REMEDIAL READING INSTRUCTION. (3)
 Section 1—Daily, 11:00; OO-222. (Staff)
 Section 2—Daily, 1:00; OO-222. (Staff)
- EDUC 160. EDUCATIONAL SOCIOLOGY. (3)
 M.T.Th.F., 9:30; FF-18. (Huden)
- EDUC 187. FIELD EXPERIENCE IN EDUCATION. (1-4)*
 a. Adult Education f. Industrial Arts Education
 b. Counseling g. Student Personnel Administration
 c. Curriculum and Instruction h. Supervision
 d. Educational Administration i. Vocational-Industrial Education
 e. Higher Education
- EDUC 188. SPECIAL PROBLEMS IN EDUCATION. (1-3)
 Prerequisite, consent of instructor. Available only to mature students who have definite plans for individual study of approved problems. Course Cards must have the title of the problem and the name of the faculty member who has approved it. Arranged.
- EDUC 189A. WORKSHOP IN SUPERVISION OF STUDENT TEACHING. (3)
 June 25-July 11; daily, 9:30-3:30; OO-321. (Collins)
- EDUC 189B. WORKSHOP IN INSTRUCTIONAL MATERIALS. (3)
 July 21-Aug. 8; daily, 8:30-12:00; Eastern Junior High School. (Staff)
- EDUC 189G. WORKSHOP ON ANALYSIS AND MODIFICATION OF TEACHING BEHAVIOR. (3)
 June 25-July 11; daily, arranged. (Young)
- EDUC 189M. WORKSHOP FOR TEACHERS OF DISADVANTAGED YOUTH: TEACHING STRATEGIES. (3)
 June 25-July 11; daily, 9:30-3:30; C-134. (Barbour)
- EDUC 202. THE JUNIOR COLLEGE. (3)
 Daily, 8:00; T-102. (Kelsey)

- EDUC 203. PROBLEMS IN HIGHER EDUCATION. (3)
Daily, 9:30; OO-26. (Kelsey)
- EDUC 224. APPRENTICESHIP IN EDUCATION. (6-9)*
a. Counseling e. Supervision
b. Curriculum and Instruction f. Student Personnel Administration
c. Educational Administration g. Vocational-Industrial Education
d. Industrial Arts Education
- EDUC 241. PROBLEMS IN THE TEACHING OF READING. (2)
Daily, 1:00; NN-13. (Sullivan)
- EDUC 245. INTRODUCTION TO RESEARCH. (2)
Section 1—M.T.Th.F., 8:00; A-164. (Sedlacek)
Section 2—M.T.Th.F., 9:30; FF-19. (Adkins)
Section 3—M.T.Th.F., 9:30; FF-20. (Staff)
Section 4—M.T.Th.F., 11:00; F-103. (Staff)
- EDUC 251. INTERMEDIATE STATISTICS IN EDUCATION. (3)
M.T.Th.F., 9:30; DD-113. (Staff)
- EDUC 255. ADVANCED LABORATORY EXPERIENCES IN READING INSTRUCTION. (3)
Prerequisite, consent of professor. Daily. (Wilson)
- EDUC 256. ADVANCED LABORATORY EXPERIENCES IN READING INSTRUCTION. (3)
Prerequisite, consent of professor. Daily. (Wilson)
- EDUC 257. DIAGNOSIS AND REMEDIATION OF READING DISABILITIES. (3)
Daily, 8:00; A-258. (Sullivan)
- EDUC 262. MEASUREMENT IN PUPIL APPRAISAL. (3)
Daily, 9:30; G-307. (Giblette)
- EDUC 266. PRACTICUM IN INDIVIDUAL TESTING. (3)
Daily, 11:00; FF-7. (Giblette)
- EDUC 280. RESEARCH METHODS AND MATERIALS. (2)
June 25-Aug. 1; M.T.Th.F., 11:00; F-104. (Stunkard)
- EDUC 281. SOURCE MATERIALS IN EDUCATION. (2)
June 25-Aug. 1; M.T.Th.F., 9:30; J-347. (deBeruff)
- EDUC 287. INTERNSHIP IN EDUCATION. (12-16)*
a. Curriculum and Instruction e. Student Personnel Services
b. Educational Administration f. Supervision
c. Industrial Arts Education g. Vocational-Industrial Education
d. Pupil Personnel Services
- EDUC 288. SPECIAL PROBLEMS IN EDUCATION. (1-6)
Master's, advanced graduate specialist, or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for credit under this number. Course Cards must have the title of the problem and the name of the faculty member under whom the work will be done. Arranged.
- EDUC 290. DOCTORAL SEMINAR. (1)
June 25-July 30; W., 1:30-4:00; OO-301. (Stunkard)

*Note: The total number of credits which a student may earn in EDUC 187, EDUC 224, and EDUC 287 is limited to a maximum of twenty (20) semester hours.

- EDUC 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- EDUC 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

INDUSTRIAL EDUCATION

- EDIN 028. ELECTRICITY-ELECTRONICS I. (3)
June 25-Aug. 15; daily, 8:00; P-212. (Bradley)
- EDIN 033. AUTOMOTIVES I. (3)
June 25-Aug. 15; daily, 9:30; P-120. (Staff)
- EDIN 043. AUTOMOTIVES II. (3)
June 25-Aug. 15; daily, 9:30; P-120. (Staff)
- EDIN 048. ELECTRICITY-ELECTRONICS II. (3)
June 25-Aug. 15; daily 8:00; P-212. (Bradley)
- EDIN 050. METHODS OF TEACHING. (3)
Section 1—June 23-Aug. 15; M.T.Th.F., 8:00; P-116. (Staff)
Section 2—June 23-Aug. 15; M.T.Th.F., 11:00; P-116. (Staff)
(Sections 1 and 2—T and I Workshop Only)
Section 3—M.T.Th.F., 9:30; P-208. (Bailey)
- EDIN 084. ORGANIZED AND SUPERVISED WORK EXPERIENCE. (3)
June 25-Aug. 15; arranged. (Bradley, Crosby, Campbell, Gelina Gettle)
- EDIN 124. ORGANIZED AND SUPERVISED WORK EXPERIENCE. (3)
June 25-Aug. 15; arranged. (Bailey, Campbell, Gelina, Beatty)
- EDIN 150. TRAINING AIDS. (3)
M.T.Th.F., 8:00; P-306. (Gettle)
- EDIN 157. TESTS AND MEASUREMENTS. (3)
M.T.Th.F., 8:00; P-221. (Stough)
- EDIN 164. LABORATORY ORGANIZATION AND MANAGEMENT. (3)
Section 1—June 23-Aug. 15; M.T.Th.F., 8:00; P-201. (Staff)
Section 2—June 23-Aug. 15; M.T.Th.F., 9:30; P-201. (Staff)
(Sections 1 and 2—T and I Workshop Only)
Section 3—Daily, 11:00; P-221. (Tierney)
- EDIN 165. MODERN INDUSTRY. (3)
M.T.Th.F., 11:00; P-100. (Harrison)
- EDIN 166. EDUCATIONAL FOUNDATIONS OF INDUSTRIAL ARTS. (2)
M.T.Th.F., 9:30; P-306. (Beatty)
- EDIN 167. PROBLEMS IN OCCUPATIONAL EDUCATION. (3)
M.T.Th.F., 8:00; P-208. (Luetkemeyer)
- EDIN 169. OCCUPATIONAL ANALYSIS AND COURSE CONSTRUCTION. (3)
Section 1—June 23-Aug. 15; M.T.Th.F., 8:00; P-306B. (Staff)
Section 2—June 23-Aug. 15; M.T.Th.F., 9:30; P-306B. (Staff)
(Sections 1 and 2—T and I Workshop Only)
Section 3—M.T.Th.F., 11:00; P-306B. (Stough)
- EDIN 171. HISTORY AND PRINCIPLES IN VOCATIONAL EDUCATION. (3)
M.T.Th.F., 11:00; P-201. (Luetkemeyer)

- EDIN 175. RECENT TECHNOLOGICAL DEVELOPMENTS IN PRODUCTS AND PROCESSES. (3)
M.T.Th.F., 11:00; P-208. (Crosby)
- EDIN 188. SPECIAL PROBLEMS IN EDUCATION. (1-3)
June 25-Aug. 15; arranged. (Mietus)
- EDIN 189D. WORKSHOP ON VOCATIONAL EDUCATION. (1)
Section 1—June 23-Aug. 15; W., 9:30; P-210. (Staff)
Section 2—June 23-Aug. 15; W., 1:30; P-210. (Staff)
- EDIN 189R. TRADE ADVANCEMENT WORKSHOP. (1-6)
June 25-Aug. 15; arranged. (Mietus)
- EDIN 216. SUPERVISION OF INDUSTRIAL ARTS. (2)
June 26-Aug. 1; M.T.Th.F., 9:30; P-221. (Tierney)
- EDIN 241. CONTENT AND METHOD OF INDUSTRIAL ARTS. (3)
Daily, 11:00; P-306. (Maley)
- EDIN 242. COORDINATION IN WORK EXPERIENCE PROGRAMS. (2)
June 26-Aug. 1; M.T.Th.F., 9:30; P-100. (Chambliss)
- EDIN 250. TEACHER EDUCATION IN INDUSTRIAL ARTS. (3)
M.T.Th.F., 8:00; P-100. (Harrison)
- EDIN 288. SPECIAL PROBLEMS IN EDUCATION. (1-6)
June 25-Aug. 15; arranged. (Mietus)
- EDIN 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- EDIN 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)
- INSTITUTE FOR CHILD STUDY**
- EDHD 105. ADOLESCENT DEVELOPMENT. (3)
Daily, 11:00; OO-26. (Mershon)
- EDHD 112. SCIENTIFIC CONCEPTS IN HUMAN DEVELOPMENT. (3)
Section 1—June 25-July 11; daily, 12:30-2:50; OO-28. (Bolea)
Section 2—June 25-July 11; daily, 12:30-2:50; OO-36. (Green)
Section 3—June 25-July 11; daily, 12:30-2:50; NN-320. (Bowie)
Section 4—June 25-July 11; daily, 12:30-2:50; RR-15. (Hamby)
- EDHD 114. SCIENTIFIC CONCEPTS IN HUMAN DEVELOPMENT. (3)
Section 1—July 14-Aug. 1; daily, 12:30-2:50; OO-28. (Gardner)
Section 2—July 14-Aug. 1; daily, 12:30-2:50; OO-36. (Hatfield)
Section 3—July 14-Aug. 1; daily, 12:30-2:50; NN-320. (Green)
Section 4—July 14-Aug. 1; daily, 12:30-2:50; RR-15. (Bowie)
- EDHD 145. GUIDANCE OF YOUNG CHILDREN. (3)
Section 1—Daily, 9:30; OO-307. (Broome)
Section 2—Daily, 11:00; OO-307. (Hunt)
- EDHD 189A. WORKSHOP: CHILD STUDY LEADERS. (2)
Section 1—June 25-July 3; daily, 8:00-3:00; J-111. (Thompson)
Section 2—June 25-July 3; daily, 8:00-3:00; J-244. (Goering)
- EDHD 189C. WORKSHOP: APPLICATION OF HUMAN DEVELOPMENT PRINCIPLES. (2)
July 7-July 18; daily, 8:00-3:00; J-111. (Thompson)

- EDHD 189E. WORKSHOP: ACTION RESEARCH IN HUMAN DEVELOPMENT. (2)
August 4-August 15; daily, 8:00-3:00; J-111. (Thompson)
- EDHD 200. INTRODUCTION TO HUMAN DEVELOPMENT AND CHILD STUDY. (3)
Section 1—Daily, 8:00; OO-307. (Hunt)
Section 2—Daily, 9:30; OO-28. (Mershon)
Section 3—Daily, 11:00; OO-28. (Kurtz)
- EDHD 201. BIOLOGICAL BASES OF BEHAVIOR. (3)
Section 1—Daily, 8:00; Y-1. (Chapin)
Section 2—Daily, 9:30; Y-1. (Chapin)
- EDHD 202. SOCIAL BASES OF BEHAVIOR. (3)
Section 1—Daily, 9:30; Q-232. (Rogolsky)
Section 2—Daily, 11:00; Q-232. (Rogolsky)
- EDHD 203. INTEGRATIVE BASES OF BEHAVIOR. (3)
Daily, 11:00; Q-504. (Kyle)
- EDHD 210. AFFECTIONAL RELATIONSHIPS AND PROCESSES. (3)
Daily, 8:00; T-108. (Kyle)
- EDHD 211. PEER CULTURE AND GROUP PROCESSES. (3)
Daily, 11:00; T-108. (Matteson)
- EDHD 212. ADVANCED SCIENTIFIC CONCEPTS IN HUMAN DEVELOPMENT. (3)
Section 1—June 25-July 11; daily, 12:30-2:50; OO-28. (Bolea)
Section 2—June 25-July 11; daily, 12:30-2:50; OO-36. (Green)
Section 3—June 25-July 11; daily, 12:30-2:50; NN-320. (Bowie)
Section 4—June 25-July 11; daily, 12:30-2:50; RR-15. (Hamby)
- EDHD 214. ADVANCED SCIENTIFIC CONCEPTS IN HUMAN DEVELOPMENT. (3)
Section 1—July 14-Aug. 1; daily, 12:30-2:50; OO-28. (Gardner)
Section 2—July 14-Aug. 1; daily, 12:30-2:50; OO-36. (Hatfield)
Section 3—July 14-Aug. 1; daily, 12:30-2:50; NN-320. (Green)
Section 4—July 14-Aug. 1; daily, 12:30-2:50; RR-15. (Bowie)
- EDHD 221. LEARNING THEORY AND THE EDUCATIVE PROCESS I. (3)
Section 1—Daily, 8:00; T-118. (Matteson)
Section 2—Daily, 8:00; T-202. (Milhollan)
Section 3—Daily, 9:30; Y-2. (Gardner)
Section 4—Daily, 11:00; Y-2. (Larson)
- EDHD 222. LEARNING THEORY AND THE EDUCATIVE PROCESS II. (3)
Daily, 12:30; RR-17. (Perkins)
- EDHD 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- EDHD 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)
- LIBRARY SCIENCE EDUCATION**
- EDLS 120. INTRODUCTION TO LIBRARIANSHIP. (3)
June 25-July 18; daily, 12:30-3:20; OO-26. (Anderson)
- EDLS 122. BASIC REFERENCE AND INFORMATION SOURCES. (3)
July 21-Aug. 15; M.T.Th.F., 12:30-3:20; OO-26. (Myers)
- EDLS 126. CATALOGING AND CLASSIFICATION OF LIBRARY MATERIALS. (3)
June 25-July 18; daily, 8:00-10:40; TH-117. (Brown)

- EDLS 128. SCHOOL LIBRARY ADMINISTRATION AND SERVICE. (3)
 June 25-July 18; daily, 12:30-3:20; OO-221. (James)
- EDLS 130. LIBRARY MATERIALS FOR CHILDREN. (3)
 July 21-Aug. 15; M.T.Th.F., 8:00-10:40; TH-117. (Brown)
- EDLS 132. LIBRARY MATERIALS FOR YOUTH. (3)
 July 21-Aug. 15; M.T.Th.F., 12:30-3:20; OO-221. (Anderson)

MUSIC EDUCATION *

- MUED 116. MUSIC IN EARLY CHILDHOOD EDUCATION. (3)
 Prerequisite, MUSC 016. Daily, 9:30; NN-301. (Shelley)
- MUED 128. MUSIC FOR THE ELEMENTARY CLASSROOM TEACHER. (3)
 Prerequisite, MUSC 016 or consent of instructor. Daily, 11:00; NN-301.
 (Shelley)
- MUED 176. SPECIAL PROBLEMS IN THE TEACHING OF INSTRUMENTAL MUSIC. (3)
 Prerequisite, MUSC 061-067 or the equivalent. Brass instruments will be studied.
 Daily, 8:00; NN-116. (Gallagher)
- MUED 201. ADMINISTRATION AND SUPERVISION OF MUSIC. (3)
 Daily, 12:30; NN-208. (Taylor)
- MUED 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- MUED 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

SECONDARY EDUCATION

- EDSE 101. PROBLEMS IN TEACHING OFFICE SKILLS. (3)
 Daily, 11:00; Q-7. Taught in conjunction with Typewriting Demonstration
 Laboratory. (O'Neill)
- EDSE 104. BASIC BUSINESS EDUCATION IN THE SECONDARY SCHOOLS. (3)
 Daily, 8:00; Q-6. (Mead)
- EDSE 114-115. FINANCIAL AND ECONOMIC EDUCATION. (3,3)
 Daily, 8:30-3:30; Q-27. (Anderson)
- EDSE 125. PROBLEMS IN TEACHING HOME ECONOMICS. (3)
 Daily, 9:30; OO-312. (Green)
- EDSE 126. EVALUATION OF HOME ECONOMICS EDUCATION. (3)
 Daily, 11:00; OO-312. (Green)
- EDSE 130. THE JUNIOR HIGH SCHOOL. (3)
 Daily, 9:30; Y-4. (Adkins)
- EDSE 133. METHODS OF TEACHING SOCIAL STUDIES IN SECONDARY SCHOOLS. (3)
 Daily, 9:30; Y-5. (Wirth)
- EDSE 137. METHODS OF TEACHING MATHEMATICS IN SECONDARY SCHOOLS. (3)
 Daily, 2:00; OO-222. (Perrault)
- EDSE 138. METHODS OF TEACHING SCIENCE IN SECONDARY SCHOOLS. (3)
 Daily, 8:00; OO-210. (LaRue)

*For Music courses, please see p. 55.

- EDSE 139. SPEECH METHODS AND RESOURCES IN SECONDARY SCHOOLS. (3)
Daily, 9:30; Y-6. (Wolvin)
- EDSE 141. METHODS OF TEACHING ENGLISH IN SECONDARY SCHOOLS. (3)
Daily, 2:00; OO-127. (Woolf)
- EDSE 142. TEACHING THE AUDIO-LINGUAL SKILLS IN THE FOREIGN LANGUAGES. (3)
Daily, 2:00; OO-125. (Huguenard)
- EDSE 145. PRINCIPLES AND METHODS OF SECONDARY EDUCATION. (3)
Section 1—Daily, 8:00; OO-312. (Funaro)
Section 2—Daily, 12:30; OO-220. (Wirth)
Section 3—Daily, 2:00; OO-220. (Staff)
- EDSE 153. TEACHING READING IN SECONDARY SCHOOLS. (3)
Daily, 11:00; FF-20. (Brigham)
- EDSE 188. SPECIAL PROBLEMS IN EDUCATION. (1,3)
Arranged. (Staff)
- EDSE 189D. WORKSHOP IN TEAM TEACHING. (3)
June 25-July 11; daily, 9:30-3:30; OO-225. (Funaro)
- EDSE 189J. WORKSHOP IN TECHNOLOGICAL INNOVATION IN BUSINESS EDUCATION.
(3)
June 25-July 11; daily, 9:00-3:30; Q-19. (Mead)
- EDSE 200. ADMINISTRATION AND SUPERVISION OF BUSINESS EDUCATION. (3)
Daily, 9:30; Q-6. (Peters)
- EDSE 240B. TRENDS IN SECONDARY SCHOOL CURRICULUM: FOREIGN LANGUAGES.
(3)
Daily, 11:00; OO-127. (Huguenard)
- EDSE 240E. TRENDS IN SECONDARY SCHOOL CURRICULUM: SOCIAL STUDIES. (3)
Daily, 11:00; T-10. (Adkins)
- EDSE 243. THEORY AND RESEARCH IN SECONDARY EDUCATION: ENGLISH. (3)
Daily, 11:00; T-203. (Woolf)
- EDSE 255. PRINCIPLES AND PROBLEMS OF BUSINESS EDUCATION. (3)
Daily, 11:00; Q-6. (Peters)
- EDSE 275. ADVANCED PROBLEMS IN ART EDUCATION. (3)
Daily, 9:30; NN-328. (Longley)
- EDSE 288. SPECIAL PROBLEMS IN EDUCATION. (1-6)
Arranged. (Staff)
- EDSE 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- EDSE 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)
- SPECIAL EDUCATION**
- EDSP 170. INTRODUCTION TO SPECIAL EDUCATION. (3)
Daily, 800; OO-220. (Huber)
- EDSP 171. CHARACTERISTICS OF EXCEPTIONAL CHILDREN. (3)
A. Mentally Retarded. Daily, 9:30; OO-30. (Jacobs)

- B. Gifted. Daily, 9:30; J-104. (Simms)
 C. Perceptual Learning Problems. Daily, 9:30; Y-9. (Campbell)
- EDSP 172. EDUCATION OF EXCEPTIONAL CHILDREN. (3)
 A. Mentally Retarded. Daily, 11:00; OO-30. (Jacobs)
 C. Perceptually Impaired. Daily, 11:00; OO-125. (Campbell)
- EDSP 173. CURRICULUM FOR EXCEPTIONAL CHILDREN. (3)
 A. Mentally Retarded. Daily, 8:00; OO-28. (Simms)
- EDSP 175. EDUCATION OF THE SLOW LEARNER. (3)
 Daily, 11:00; TH-117. (Seidman)
- EDSP 200. EXCEPTIONAL CHILDREN AND YOUTH. (3)
 Daily, 8:00; T-203. (Seidman)
- EDSP 235. PROBLEMS IN THE EDUCATION OF CHILDREN WITH EMOTIONAL
 DISTURBANCES. (3)
 Daily, 11:00; A-320. (Huber)
- EDSP 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- EDSP 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

ENGINEERING

CHEMICAL ENGINEERING

- ENCH 015. CHEMICAL ENGINEERING ANALYSIS.* (2)
 Prerequisite, consent of the Department. June 25-July 18; daily, 9:30; U-112.
 (Staff)
- ENCH 050. ENGINEERING THERMODYNAMICS.* (2)
 Prerequisite, consent of the Department. July 21-Aug. 15; daily, 9:30; U-112.
 (Staff)
- ENCH 165. RESEARCH. (2 or 3)
 Prerequisite, consent of the Department. Laboratory fee \$10.00. (Staff)
- ENCH 247A. SPECIAL PROBLEMS IN CHEMICAL ENGINEERING. (3)
 Arranged. (Staff)
- ENCH 247B. SPECIAL PROBLEMS IN BIOENGINEERING. (3)
 Arranged. (Staff)
- ENCH 247F. SPECIAL PROBLEMS IN POLYMER SCIENCE. (3)
 Arranged. (Staff)
- ENCH 314. SPECIAL PROBLEMS IN NUCLEAR ENGINEERING. (2 or 3)
 Arranged. (Staff)
- ENCH 398. SPECIAL PROBLEMS IN ENGINEERING MATERIALS. (variable credit)
 Arranged. (Staff)
- ENCH 399A. THESIS RESEARCH IN CHEMICAL ENGINEERING. (1-6)
 Arranged. (Staff)

*These two courses will be taught sequentially during the eight weeks session and students may enroll in both courses. Principally for transfer students and those with deficiencies.

- ENCH 399B. THESIS RESEARCH IN NUCLEAR ENGINEERING. (1-6)
 Arranged. (Staff)
- ENCH 399C. THESIS RESEARCH IN ENGINEERING MATERIALS. (1-6)
 Arranged. (Staff)
- ENCH 499A. DISSERTATION RESEARCH IN CHEMICAL ENGINEERING. (1-6)
 Arranged. (Staff)
- ENCH 499B. DISSERTATION RESEARCH IN NUCLEAR ENGINEERING. (1-6)
 Arranged. (Staff)
- ENCH 499C. DISSERTATION RESEARCH IN ENGINEERING MATERIALS. (1-6)
 Arranged. (Staff)

CIVIL ENGINEERING

- ENCE 050. FUNDAMENTALS OF ENGINEERING MATERIALS. (3)
 Prerequisite, ENES 020 or concurrent registration. M.T.F., 8:00-9:00. Laboratory, Th. 8:00-11:00; J-170. (Wedding)
- ENCE 090. ENGINEERING SURVEY MEASUREMENTS. (3)
 Corequisite, MATH 020 with consent of instructor. Open only to students enrolled in the College of Engineering. June 9-23; daily, 8:00-5:00; J-154, J-156. (Garber)
- ENCE 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- ENCE 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

ELECTRICAL ENGINEERING

- ENEE 080. ALGORITHMIC ANALYSIS AND COMPUTER PROGRAMMING. (2)
 Corequisite, MATH 021. Required of Sophomores in Electrical Engineering. June 25-Aug. 15; Lecture, M.W., 12:30; J-326.
 Laboratory Section 1—F., 9:30-12:00; J-326.
 Laboratory Section 2—F., 12:30-3:00; J-326.
- ENEE 090. CIRCUIT ANALYSIS I. (4)
 Corequisites, MATH 022, PHYS 032, ENEE 091. Required of Sophomores in Electrical Engineering. June 25-Aug. 15; daily, 8:00; J-104. See ENEE 091 for related laboratory course.
- ENEE 091. CIRCUIT LABORATORY I. (1)
 Corequisite, ENEE 090. Required of Sophomores in Electrical Engineering. Arranged; S-5. First meeting of all students W., June 25, 9:20; S-5.
- ENEE 120. CIRCUIT ANALYSIS II. (4)
 Prerequisite, ENEE 090. Corequisites, ENEE 121, MATH 066. Required of Juniors in Electrical Engineering. June 25-Aug. 15; daily, 8:00; J-10. See ENEE 121 for related laboratory course. (Staff)
- ENEE 121. CIRCUIT LABORATORY II. (1)
 Corequisite, ENEE 120. Required of Juniors in Electrical Engineering. Arranged; S-5. First Meeting of all students W., June 25, 9:20; S-8. Laboratory fee \$5.00. (Staff)
- ENEE 130. ENGINEERING ELECTROMAGNETICS I. (3)
 Prerequisites, MATH 022, PHYS 032, ENEE 090, with an average grade of

C or better in MATH 021 and 022, PHYS 031 and 032, ENEE 090. Required of Juniors in Electrical Engineering. M.T.Th.F., 11:00; J-104. (Staff)

ENEE 140. TRANSDUCERS AND ELECTRICAL MACHINERY. (3)
Prerequisites, ENEE 120, ENEE 132. Corequisite, ENEE 141. Required of Seniors in Electrical Engineering. M.T.Th.F., 11:00; J-10. See ENEE 141 for related laboratory course. (Staff)

ENEE 141. TRANSDUCERS AND ELECTRICAL MACHINERY LABORATORY. (1)
Corequisite, ENEE 140. Required of Seniors in Electrical Engineering. Arranged; S-2. First meeting of all students W., June 25, 12:30; S-2. (Staff)

ENEE 150. NETWORK SYNTHESIS. (3)
Prerequisite, ENEE 120. M.T.Th.F., 9:30; J-10. (Staff)

ENEE 162. LOGIC OF DIGITAL COMPUTERS. (3)
Prerequisites, MATH 021, ENEE 080, or equivalent. M.T.Th.F., 8:00; J-102. (Staff)

ENEE 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)

ENEE 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

ENGINEERING SCIENCES

ENES 001. INTRODUCTION TO ENGINEERING SCIENCE. (3)
Prerequisite, concurrent MATH 018. M. 8:00-10:50; T.Th.F., 8:00; J-382. (Puckett)

ENES 010. MECHANICS. (3)
Prerequisite, ENES 001, concurrent MATH 020.
Section 1—M.T.Th.F., 8:00; J-378. (Hayleck)
Section 2—M.T.Th.F., 9:30; J-378. (Fourney)

ENES 020. MECHANICS OF MATERIALS. (3)
Prerequisites, MATH 020, PHYS 020, ENES 010. M.T.Th.F., 11:00; J-140. (Schelling)

ENES 021. DYNAMICS. (3)
Prerequisite, ENES 010, concurrent MATH 021, PHYS 030. M.T.Th.F., 8:00; J-360. (Walston)

MECHANICAL ENGINEERING

ENME 103. MATERIALS OF ENGINEERING. (3)
M.T.Th.F., 8:00; J-347. (Asimow)

ENME 104. GAS DYNAMICS. (3)
M.T.Th.F., 8:00; J-282. (Sallet)

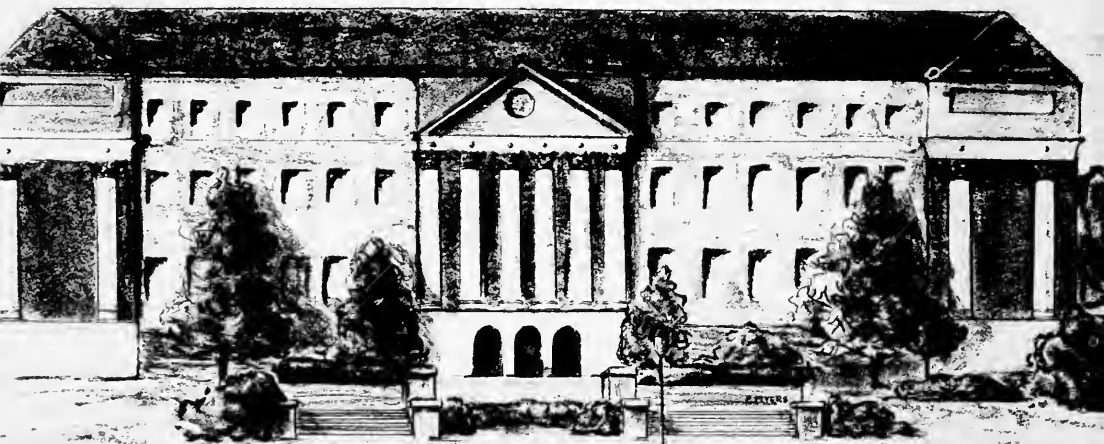
ENME 106. TRANSFER PROCESSES. (3)
M.T.Th.F., 9:30; J-282. (Marks)

ENME 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)

ENME 499. DISSERTATION RESEARCH. (1-6)
Arranged. (Staff)

LIBRARY AND INFORMATION SERVICES

- LBSC 202. INTRODUCTION TO REFERENCE AND BIBLIOGRAPHY. (3)
June 25-Aug. 15; daily, 9:00-10:00; L-405. (McGreath)
- LBSC 204. COMMUNICATION AND LIBRARIES. (3)
June 25-Aug. 15; daily, 10:00-11:00; L-405. (Kidd)
- LBSC 206. ORGANIZATION OF KNOWLEDGE IN LIBRARIES I. (3)
Section 1—June 25-Aug. 15; daily, 9:00-10:00; L-100. (Foskett)
Section 2—June 25-Aug. 15; daily, 10:00-11:00; L-100. (Langridge)
- LBSC 207. ORGANIZATION OF KNOWLEDGE IN LIBRARIES II. (3)
Section 1—June 25-Aug. 15; daily, 11:00-12:00; L-100. (Foskett)
Section 2—June 25-Aug. 15; daily, 11:00-12:00; L-100. (Langridge)
- LBSC 209. HISTORY OF LIBRARIES AND THEIR MATERIALS. (3)
June 25-Aug. 15; daily, 8:00-9:00; L-405. (Sloan)
- LBSC 215. LITERATURE AND RESEARCH IN THE SOCIAL SCIENCES. (3)
June 25-Aug. 15; daily, 9:00-10:00; L-452M. (Warner)
- LBSC 217. LITERATURE AND RESEARCH IN THE HUMANITIES. (3)
June 25-Aug. 15; daily, 11:00-12:00; L-405. (McGrath)
- LBSC 222. CHILDREN'S LITERATURE AND MATERIALS. (3)
June 25-Aug. 15; daily, 11:00-12:00; L-452M. (MacLeod)
- LBSC 224. CONSTRUCTION AND MAINTENANCE OF INDEX LANGUAGES. (3)
June 25-Aug. 15; daily, 9:00-10:00; L-403. (Levy)
- LBSC 225. ADVANCED DATA PROCESSING IN LIBRARIES. (3)
June 26-Aug. 14; T.Th., 2:30-4:00; L-100 (Meadow)
- LBSC 227. DOCUMENTATION AND INFORMATION SYSTEMS AND THEIR TESTING
AND EVALUATION. (3)
June 25-Aug. 15; daily, 11:00-12:00; L-403. (Levy)
- LBSC 233. GOVERNMENTAL INFORMATION SYSTEMS. (3)
June 25-Aug. 15; daily, 8:00-9:00; L-452M. (Warner)



- LBSC 245. LEGAL LITERATURE. (3)
June 25-Aug. 15; daily, 8:00-9:00; L-100. (Bougas)
- LBSC 261. SEMINAR IN THE SPECIAL LIBRARY AND INFORMATION CENTER. (3)
June 25-Aug. 15; daily, 10:00-11:00; L-452M. (Thomas)
- LBSC 264. SEMINAR IN THE SCHOOL LIBRARY. (3)
June 25-Aug. 15; daily, 10:00-11:00; L-100. (Liesener)
- LBSC 290. INDEPENDENT STUDY. (1-3)
Arranged. (Staff)

HOME ECONOMICS

FAMILY AND COMMUNITY DEVELOPMENT

- FMLF 130. HOME MANAGEMENT AND FAMILY LIFE. (3)
July 21-Aug. 15; daily, 9:30-11:30; Home Management Center. (Brown)
- HMG 161. RESIDENT EXPERIENCE IN HOME MANAGEMENT. (3)
A charge of \$40.00 for food and supplies is assessed each student. Students not living in the dormitories are billed at the rate of \$5.00 a week for a room in the Home Management House. (Orvedal)
- HOEC 190c. SPECIAL PROBLEMS IN HOME ECONOMICS. (1-3)
June 25-Aug. 1; arranged. (Lemmon)
- HOEC 190d. FAMILY LIFE TEACHERS WORKSHOP. (2)
June 23-July 3; daily, 9:00-3:00; Home Management Center. (Brown)
- HOEC 202. INTEGRATIVE ASPECTS OF HOME ECONOMICS. (2)
July 7-Aug. 1; daily, 9:30; H-309. (Lemmon)
- HOEC 290c. SPECIAL TOPICS IN HOME ECONOMICS. (1-3)
June 25-Aug. 1; arranged. (Lemmon)
- HOEC 290d. FAMILY LIFE TEACHERS WORKSHOP. (2)
June 23-July 3; daily, 9:00-3:00; Home Management Center. (Brown)
- HOEC 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)

FOOD, NUTRITION AND INSTITUTION ADMINISTRATION

- NUTR 020. ELEMENTS OF NUTRITION. (3)
Daily, 9:30; H-304. (Ahrens)
- IADM 140. PRACTICUM IN INSTITUTION ADMINISTRATION. (3)
June 25-Aug. 15; arranged. (Staff)
- NUTR 145. INTERNATIONAL NUTRITION. (2)
June 25-Aug. 1; M.T.Th.F., 10:30-11:45; H-203. (Prather)
- FOOD 180. FOOD ADDITIVES. (3)
June 25-Aug. 1; daily, 9:00-10:20; H-222. (Lecturer)
- FOOD 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)
- IADM 399. THESIS RESEARCH. (1-6)
Arranged. (Staff)

- NUTR 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- HOUSING AND APPLIED DESIGN**
- APDS 001. FUNDAMENTALS OF DESIGN. (3)
 Daily, 8:00; H-101. (Roper)
- APDS 190. INDIVIDUAL PROBLEMS IN APPLIED DESIGN. (3-4)
 Arranged. (Staff)
- CRAF 002. RECREATIONAL CRAFTS. (2)
 June 25-Aug. 15; daily, 9:30; H-9. (Roper)
- CRAF 020. CERAMICS I: MATERIALS AND PROCESSES. (3)
 Prerequisite, APDS 1 or equivalent.
 Section 1—June 25-Aug. 15; M.T.W.Th., 9:30-12:30; H-102. (Staff)
 Section 2—June 25-Aug. 15; M.T.W.Th., 1:00-4:00; H-102. (Staff)
- CRAF 102. CREATIVE CRAFTS. (3)
 Daily, 9:30; H-9. (Roper)
- CRAF 120, 121. ADVANCED CERAMICS I AND II. (3,3)
 Prerequisite, CRAF 020.
 Section 1—June 25-Aug. 15; M.T.W.Th., 9:30-12:30; H-102. (Staff)
 Section 2—June 25-Aug. 15; M.T.W.Th., 1:00-4:00; H-102. (Staff)
- CRAF 190. INDIVIDUAL PROBLEMS IN CRAFTS. (3-4)
 Arranged.
- HSAD 190. INDIVIDUAL STUDY IN HOUSING AND/OR INTERIOR DESIGN. (3-4)
 Arranged. (Staff)
- HOEC 290a. SPECIAL TOPICS IN APPLIED DESIGN. (1-3)
 Arranged. (Staff)
- TEXTILES AND CLOTHING**
- TEXT 050. CONSUMER TEXTILES. (3)
 M.T.Th.F., 8:00; H-304. (Eyler)
- CLTH 127. APPAREL DESIGN. (3)
 July 21-Aug. 15; daily, 9:30-1:00; H-132. (Thompson)
- HOEC 290h. SPECIAL TOPICS: ROLE OF THE FEDERAL GOVERNMENT IN THE
 TEXTILE AND CLOTHING INDUSTRIES. (4)
 June 30-Aug. 8; daily, 9:30-12:00; H-304. (Hoffman)
- CLTH 220b*. SPECIAL STUDIES: CLOTHING FOR THE HANDICAPPED. (2)
 (Hoffman)
- OR
- HOEC 190b.* SPECIAL PROBLEMS: CLOTHING FOR THE HANDICAPPED. (2)
- OR
- HOEC 290b.* SPECIAL TOPICS: CLOTHING FOR THE HANDICAPPED. (2)
- TXCL 399. THESIS RESEARCH. (1-6) (Staff)

*Graduate students register under symbol CLTH 220 or HOEC 290b; undergraduates or special students under HOEC 190b. All three courses meet daily, July 21-Aug. 8; 1:30-3:30; H-215.

PHYSICAL EDUCATION, RECREATION AND HEALTH

HEALTH EDUCATION

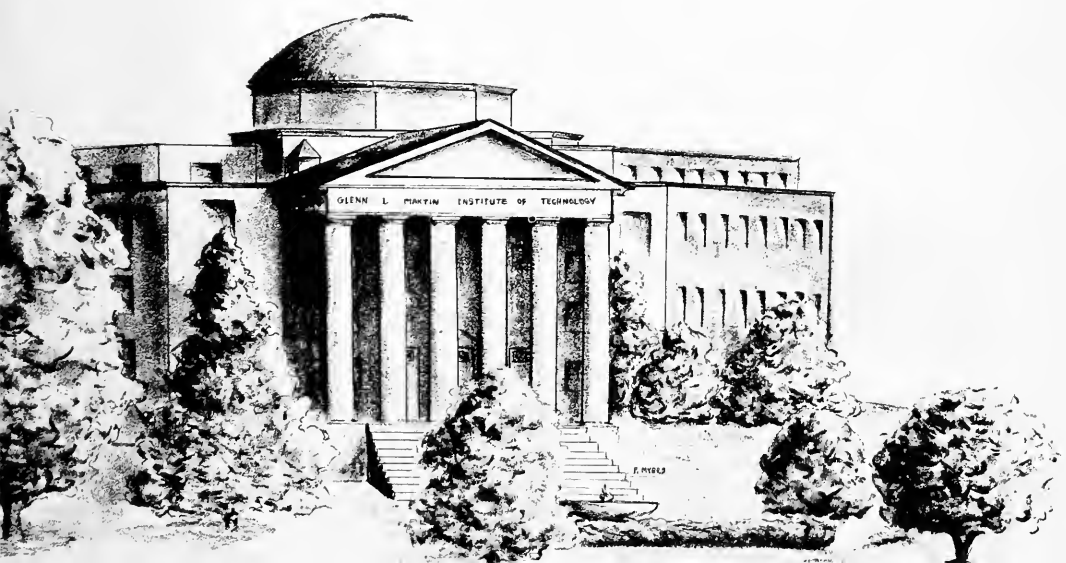
- HLTH 005. SCIENCE AND THEORY OF HEALTH. (2)
 Section 1—M.T.Th.F., 8:00; AA-8. (Tift)
 Section 2—M.T.Th.F., 9:30; AA-8. (Miller)
 Section 3—M.T.Th.F., 11:00; AA-8. (Leviton)
 Section 4—M.T.Th.F., 12:30; AA-8. (Sechrist)
- HLTH 040. PERSONAL AND COMMUNITY HEALTH. (3)
 Daily, 11:00; AA-12. (Hart)
- HLTH 120. METHODS AND MATERIALS IN HEALTH EDUCATION. (3)
 Daily, 9:30; AA-12. (Tift)
- HLTH 150. HEALTH PROBLEMS OF CHILDREN AND YOUTH. (3)
 Daily, 11:00; AA-16. (Miller)
- HLTH 165. ORGANIZATION, ADMINISTRATION, AND SUPERVISION OF SCHOOL SAFETY EDUCATION. (3)
 Daily, 8:00; GG-201. (Tompkins)
- HLTH 175. PROBLEMS IN DRIVER AND TRAFFIC SAFETY EDUCATION. (3)
 Daily, 9:30; GG-201. (Tompkins)
- HLTH 178. FUNDAMENTALS OF SEX EDUCATION. (3)
 Section 1—Daily, 12:30; AA-12. (Leviton)
 Section 2—June 23-July 11; daily, 9:00-12:00; Y-019. Enrollment limited to members of the American Association of Sex Education and Counselors (Sands)
- HLTH 188. CHILDREN'S PHYSICAL DEVELOPMENT CLINIC. (1-4)
 Must have junior standing and prior permission of instructor. Daily, arranged; W-131. (Johnson)
- HLTH 189. ADVANCEMENTS IN HEALTH SCIENCE AND HEALTH EDUCATION INSTITUTE. (3 or 6)
 June 25-Aug. 1; daily, 8:00-11:00; C-97. (Jones)
- HLTH 200. SEMINAR IN PHYSICAL EDUCATION, RECREATION, AND HEALTH. (1)
 Arranged; GG-205. (Fralely)
- HLTH 270. STATUS AND TRENDS IN HEALTH EDUCATION. (3)
 Daily, 9:30; AA-14. (Staff)
- HLTH 287. ADVANCED SEMINAR. (3)
 Daily, 11:00; AA-14. (Staff)
- HLTH 288. SPECIAL PROBLEMS IN HEALTH EDUCATION. (1-6)
 Arranged. (Staff)
- HLTH 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- HLTH 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

PHYSICAL EDUCATION

- PHED S010. PHYSICAL EDUCATION ACTIVITIES. (1-4)
 Not available for credit to PHED majors. Non-majors in PHED may use this credit to fulfill graduation requirements in PHED. Fee, \$6.00.
 Section 1—Swimming (1) Daily, 11:00; Cole Pool. (Hult)
 Section 2—Tennis (1) Daily, 12:30; Cole Courts. (Staff)
- PHED 100. KINESIOLOGY. (4)
 Daily, 8:00; and arranged; GG-202. (Kelley)
- PHED 120. PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL. (3)
 Daily, 8:00; GG-310. (Humphrey)
- PHED 155. PHYSICAL FITNESS OF THE INDIVIDUAL. (3)
 Daily, 11:00; GG-160. (Schmidt)
- PHED 160. THEORY OF EXERCISE. (3)
 Daily, 8:00; GG-205. (Clarke)
- PHED 180. MEASUREMENT IN PHYSICAL EDUCATION AND HEALTH. (3)
 Daily, 9:30; GG-205. (Kelley)
- PHED 196. QUANTITATIVE METHODS. (3)
 Daily, 9:30; GG-202. (Stull)
- PHED 200. SEMINAR IN PHYSICAL EDUCATION, RECREATION AND HEALTH. (1)
 July 1-Aug. 5; T., 1:00; GG-205. (Fraleigh)
- PHED 201. FOUNDATIONS IN PHYSICAL EDUCATION, RECREATION, AND HEALTH. (3)
 Daily, 9:30; GG-310. (Hult)
- PHED 202. STATUS AND TRENDS IN ELEMENTARY SCHOOL PHYSICAL EDUCATION. (3)
 Daily, 11:00; GG-37. (Humphrey)
- PHED 205. ANALYSIS OF CONTEMPORARY ATHLETICS. (3)
 Daily, 8:00; GG-37. (Husman)
- PHED 210. METHODS AND TECHNIQUES OF RESEARCH. (3)
 Daily, 11:00; GG-202. (Stull)
- PHED 250. MENTAL AND EMOTIONAL ASPECTS OF SPORTS AND RECREATION. (3)
 Prerequisites, PSYC and/or EDHD. Daily, 9:30; GG-37. (Husman)
- PHED 280. SCIENTIFIC BASES OF EXERCISE. (3)
 Daily, 11:00; GG-205. (Clarke)
- PHED 288. SPECIAL PROBLEMS IN PHYSICAL EDUCATION, RECREATION AND HEALTH. (1-6)
 Arranged; GG-310. Master or doctoral candidates who desire to pursue special research problems under the direction of their advisers may register for 1-6 hours of credit under this number. (Staff)
- PHED 399. THESIS RESEARCH. (1-6)
 Arranged. (Staff)
- PHED 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)

RECREATION

- RECR 184. OUTDOOR EDUCATION WORKSHOP. (6)
 June 23-Aug. 1; daily, 9:00-3:00 and arranged; GG-160 and arranged. (Staff)
- RECR 200. SEMINAR IN PHYSICAL EDUCATION, RECREATION AND HEALTH. (1)
 July 1-Aug. 5; T., 1:00; GG-205. (Frale)
- RECR 210. METHODS AND TECHNIQUES OF RESEARCH. (3)
 Daily, 11:00; GG-202. (Staff)
- RECR 288. SPECIAL PROBLEMS IN PHYSICAL EDUCATION, RECREATION AND HEALTH.
 (1-6)
 Arranged. Credit according to work assigned. (Staff)
- RECR 399. THESIS RESEARCH. (1-6)
 June 26-Aug. 2; Arranged. (Staff)
- RECR 499. DISSERTATION RESEARCH. (1-6)
 Arranged. (Staff)



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REQUEST FOR HOUSING APPLICATION

Please send me an application for accommodations in the residence halls for summer, 1969.

Student: PLEASE TYPE OR PRINT

NAME _____
Last First Middle

STREET ADDRESS _____
Number Street

_____ City State Zip Code

SUMMER 1969

Please send me an application for UNDERGRADUATE admission to the 1969 Summer School.

Undergraduate day students or graduate students who were registered on the College Park Campus with the University during the Spring Semester and who are in good academic standing at the end of the Spring Semester need only to appear for registration at the time indicated on page 11.

NAME _____
Please print

STREET ADDRESS _____

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SUMMER 1969

Please send me an application for admission to the Graduate School. I intend to begin graduate study with the 1969 summer session through the Summer School.

I understand that applications for the summer session must be received in the Graduate School by May 15, 1969 and that the application is not considered complete until two copies of all my transcripts have also been received in the Graduate School by that date.

NAME _____
Please print

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THE UNIVERSITY is the rear guard and the advance agent of society. It lives in the past, the present and the future. It is the storehouse of knowledge; it draws upon this depository to throw light upon the present; it prepares people to live and make a living in the world of today; and it should take the lead in expanding the intellectual horizons and the scientific frontiers, thus helping mankind to go forward —always toward the promise of a better tomorrow.

From "The State and the University"
the inaugural address of
President Wilson H. Elkins
January 20, 1955
College Park, Maryland

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