



1967      CATALOG      1968  
ROCHESTER,      MICHIGAN

## OAKLAND UNIVERSITY

On February 9, 1963, the Board of Trustees changed the name of Michigan State University Oakland to Oakland University in order to make it easier for this young institution to establish its own independent identity. The action in no way alters the administrative and legal ties with Michigan State University described elsewhere in this catalog. The Board of Trustees of Michigan State University and Oakland University is elected by the citizens of the State of Michigan and has the ultimate authority for the development and operation of both universities. Oakland has been free since its beginning to develop its own philosophy, program, policies, staff and faculty, and is separately accredited by the North Central Association of Colleges and Secondary Schools.

### CORRESPONDENCE DIRECTORY

Officers of the University will be pleased to answer questions. For prompt attention, inquiries in specific areas should be addressed as follows:

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# **OAKLAND UNIVERSITY**

**Catalog  
1967 - 1968**

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**Rochester, Michigan**

# UNIVERSITY CALENDAR

1967 - 1968

## FALL SEMESTER

|              |           |                           |
|--------------|-----------|---------------------------|
| September 6  | Wednesday | Convocation Exercises     |
| September 7  | Thursday  | Advising and Registration |
| September 8  | Friday    | Advising and Registration |
| September 11 | Monday    | Classes begin             |
| November 23  | Thursday  | Thanksgiving recess       |
| November 27  | Monday    | Classes resume            |
| December 20  | Wednesday | Last day of classes       |

## WINTER SEMESTER

|             |           |                           |
|-------------|-----------|---------------------------|
| January 2   | Tuesday   | Advising and Registration |
| January 3   | Wednesday | Advising and Registration |
| January 4   | Thursday  | Classes begin             |
| February 29 | Thursday  | Winter recess             |
| March 4     | Monday    | Classes resume            |
| April 17    | Wednesday | Last day of classes       |
| April 20    | Saturday  | Commencement              |

## SPRING SEMESTER

|           |          |                           |
|-----------|----------|---------------------------|
| April 26  | Friday   | Advising and Registration |
| April 29  | Monday   | Classes begin             |
| May 30    | Thursday | Holiday                   |
| July 4    | Thursday | Holiday                   |
| August 9  | Friday   | Last day of classes       |
| August 10 | Saturday | Commencement              |

1968 - 1969

## FALL SEMESTER

|             |           |                           |
|-------------|-----------|---------------------------|
| September 4 | Wednesday | Convocation Exercises     |
| September 5 | Thursday  | Advising and Registration |
| September 6 | Friday    | Advising and Registration |
| September 9 | Monday    | Classes begin             |
| November 28 | Thursday  | Thanksgiving recess       |
| December 2  | Monday    | Classes resume            |
| December 14 | Saturday  | Final Examinations begin  |
| December 18 | Wednesday | Last day of semester      |

## WINTER SEMESTER

|             |           |                           |
|-------------|-----------|---------------------------|
| January 2   | Thursday  | Advising and Registration |
| January 3   | Friday    | Advising and Registration |
| January 6   | Monday    | Classes begin             |
| February 27 | Thursday  | Winter recess             |
| March 3     | Monday    | Classes resume            |
| April 12    | Saturday  | Final Examinations begin  |
| April 16    | Wednesday | Last day of semester      |
| April 19    | Saturday  | Commencement              |

## SPRING SEMESTER

|          |          |                           |
|----------|----------|---------------------------|
| April 25 | Friday   | Advising and Registration |
| April 28 | Monday   | Classes begin             |
| May 30   | Friday   | Holiday                   |
| July 4   | Friday   | Holiday                   |
| August 5 | Tuesday  | Final Examinations begin  |
| August 8 | Friday   | Last day of semester      |
| August 9 | Saturday | Commencement              |

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Aerial View

# OAKLAND UNIVERSITY

Oakland University is a state-supported institution that offers degree programs at the bachelor's and master's levels. The undergraduate program leading to the bachelor's degree is centered in the liberal arts and sciences, and is accredited by the North Central Association of Colleges and Secondary Schools. The University also offers professional training at the undergraduate level in teacher education, business administration, and engineering. Regardless of his special field, each undergraduate student at Oakland University takes work in prescribed studies which the University conceives to be the basis of a liberal education. These are called University Courses.

The baccalaureate curriculum emphasizes the fundamental disciplines, and all course work concentrates on principles and concepts which will be of continuing value in a world where techniques and applications change. Teacher education, for example, is a university-wide responsibility. A student preparing for secondary teaching specializes in a liberal arts discipline of his choice, and he receives instruction from the arts and sciences departments.

The University's academic structure includes a College of Arts and Sciences, a School of Education, a School of Engineering, and a School of Performing Arts. In addition, authorization has been given for a School of Business and Economics. The College of Arts and Sciences includes the departments of Art, Biology, Chemistry, Classical Languages and Literatures, Economics, English Language and Literature, History, Mathematics, Modern Languages and Literatures, Music, Philosophy, Physics, Political Science, Psychology, and Sociology and Anthropology. All these departments offer undergraduate major programs, and there are several interdepartmental programs as well. The School of Education contains the department of Teacher Education and faculty drawn from other departments of the University. The Academy of Dramatic Art is an administrative unit of the School of Performing Arts. The Meadow Brook School of Music is operated in the summer session and offers course credit for instruction at the bachelor's and master's levels in vocal and instrumental music. Additional information about graduate programs is contained in the *Graduate Bulletin*.

Graduate work leading to the master's degree is offered in selected fields of study. The College of Arts and Sciences offers programs leading to the Master of Arts degree in English, mathematics, and psychology, and to the Master of Science degree in chemistry and physics. The School of Education offers the Master of Arts in Teaching degree in elementary education and in reading instruction. The School of Engineering offers the Master of Science degree in systems engineering. The College of Arts and Sciences and the School of Education jointly offer programs leading to the Master of Arts in Teaching degree in English and mathematics.

The University's primary concern lies in creating and maintaining an effective community of learning. At Oakland University there is a variety of extracurricular activity which serves this purpose by balancing or supporting the learning experience. Interest groups, student publications, and cultural activities enhance and give practical application to academic discipline. Social events and an athletic program balance it.

### **The Three-Semester Plan**

Oakland has been among the first institutions in the country to put its entire academic program in year-round operation. Under what is known as the three-semester (or trimester) plan, students may attend classes for three fifteen-week semesters a year and may therefore graduate in two and two-thirds years instead of the traditional three and three-fourths years. There are advantages for both the student and the University in such a plan: the student may gain more than a year in his productive career, and the University may make the most efficient possible use of its facilities to meet the growing educational demands of society.

### **Campus and Buildings**

Oakland University is located twenty-five miles north of Detroit, midway between Rochester and Pontiac. The campus presently occupies the northwest corner of the estate given to the University by Mr. and Mrs. Alfred G. Wilson, who also donated its first academic buildings, North and South Foundation Halls.

NORTH FOUNDATION HALL contains administrative and faculty offices, lecture halls, music rooms, and the health service.



SOUTH FOUNDATION HALL contains classrooms, music rooms, faculty offices, the Continuing Education and Michigan State University Extension offices.

THE KRESGE LIBRARY, given to the University by the Kresge Foundation, is an air-conditioned structure that presently contains about 113,000 volumes and study space for 1,200 students. It has a capacity of nearly 300,000 volumes and can be expanded to three times its present size.

THE SCIENCE BUILDING, the first structure at Oakland University to be built with state funds provided by the Michigan Legislature, contains modern facilities for biology, chemistry, engineering, mathematics, and physics. Its eighty rooms include two large lecture halls, a mathematics and science reading room, offices, classrooms of multiple sizes, and both teaching and research laboratories.

THE MATILDA R. WILSON HALL, named in honor of the University's founder, includes classrooms, the Placement and Alumni offices, art studios, language laboratories, faculty offices, an art gallery, a 600-seat lecture hall and some administrative offices. It is the second building to be constructed with state funds.

THE OAKLAND CENTER, which was financed by the Oakland County Board of Supervisors and by a federal loan, provides campus dining facilities, private dining and meeting rooms, offices for student activities, offices for student publications, some recreational facilities, and houses the University book store and Scholar Shop. Most of the University cultural and social events take place in the Oakland Center.

THE INTRAMURAL SPORTS AND RECREATION BUILDING, financed from student-fee income, provides facilities for the recreation program at Oakland. Activities in seven different sports can be carried on simultaneously in this building, which contains a swimming pool with a diving area, as well as courts for badminton, handball, squash, tennis, and basketball. Also included are equipment for boxing, wrestling, fencing, gymnastics, weight lifting, and modern dance. Beyond the

building are tennis courts and extensive playing fields, and just to the south lies a ski slope, complete with a tow.

The University maintains six residence halls which house about 35 percent of the student body. Students are encouraged to live in these facilities in order to take full advantage of the University community. A wide variety of accommodations are offered. ANIBAL HOUSE, FITZGERALD HOUSE, and PRYALE HOUSE are L-shaped buildings with 24 double rooms in each wing; the wings are joined by a student lounge and an apartment for resident advisers. HILL HOUSE and VAN WAGONER HALL are both six-story units, each containing 100 double rooms, a lobby, lounge, recreation room, and a resident adviser's apartment. VANDENBERG HALL, completed in 1966, is a seven-story, twin tower structure. It contains 285 double rooms, kitchen and dining facilities for 1,700 students, student lounges, multiple-use areas, study and seminar rooms, and recreation areas. ANIBAL HOUSE and HILL HOUSE are women's halls; FITZGERALD HOUSE and VAN WAGONER HALL are men's units; and, PRYALE HOUSE and VANDENBERG HALL are coeducational units in which men and women share academic, study, dining, and recreational facilities.

THE CHARLES F. KETTERING MAGNETICS LABORATORY, constructed with a grant from the Kettering Foundation, houses facilities and special equipment for magnetism research done at the University in cooperation with General Motors Research Laboratories.

HOWARD C. BALDWIN MEMORIAL PAVILION, centered in a natural, wooded amphitheater on the Oakland campus, provides the setting for the widely-acclaimed Meadow Brook Music Festival. The pavilion is the first facility of a planned performing arts center. The LULA B. WILSON MEMORIAL CONCERT SHELL is a "pre-tunable" fiberglass acoustical shell especially designed for the pavilion and rated as outstanding in acoustical excellence.

TRUMBULL TERRACE, built into a wooded hillside adjacent to the Baldwin Memorial Pavilion, provides service facilities, food service and quarters for the Scholar Shop for use during the Meadow Brook Music Festival.

THE MOTT CENTER, a converted farmhouse on Walton, houses the Mott Center for Community Affairs, established by a grant from the C. S. Mott Foundation.

### **Governance**

Oakland University is affiliated with Michigan State University. Both institutions have the same President and Board of Trustees. Oakland has its own Chancellor and University organization responsible for developing its individual role, character, and functions.

### **History**

In 1957 Mr. and Mrs. Alfred G. Wilson gave their 1,600-acre estate in Oakland County to Michigan State University for the creation of a new university. Michigan State University President John A. Hannah then named a committee of fifty community leaders to give form and direction to the new institution. This committee, known as the Michigan State University Oakland Foundation, included automobile company executives, school superintendents, newspaper publishers, judges, housewives, union officials, and civic leaders.

To help with its planning the Foundation gathered together twenty educators and distinguished citizens to give their views about what the character of the new institution ought to be. In the group were Vassar College President Sarah Blanding, Professor Henry Steele Commager of Amherst, California Institute of Technology President Lee DuBridge, Johns Hopkins President Milton Eisenhower, Henry Heald of the Ford Foundation, and Henry Luce of *Time-Life* publications. The group was virtually unanimous in its recommendations: (1) The university should seek to develop broadly educated students regardless of professional interests; (2) Its curriculum should be relatively simple and should emphasize quality and depth of study; (3) Specific disciplines should center on principles and basic ideas rather than on transitory applications or techniques; (4) The university should build a community of learning in which the faculty could effectively help the students to educate themselves; (5) A university should provide students of this generation with a knowledge of other cultures, particularly those in non-Western areas. These recommendations form the basis for the University curriculum.

In the fall of 1959, with Durward B. Varner as chancellor and a faculty of twenty-five, Michigan State University Oakland opened its doors to a charter class of freshmen. Two important events in Oakland's short history took place in 1963. In February the University changed its name to Oakland University in order that it might establish its own clear and separate identity, though the University's legal and administrative relationship with Michigan State University remained unchanged. In April Oakland University held its first commencement, and the charter class became its first alumni.

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*Professors Harding and Wilson*



# THE BACCALAUREATE CURRICULUM

## **Undergraduate Degrees**

Oakland University offers a wide range of baccalaureate majors in the Humanities, the Social Sciences, Mathematics, and the Natural Sciences. These programs also include specialization in Business Administration, Engineering, and Teacher Education. For complete information regarding major programs consult the appropriate sections of this catalog. Oakland University confers two Bachelor's degrees: all graduates are granted the Bachelor of Arts, except those in engineering, who are granted the Bachelor of Science.

## **University Course Program**

In addition to the major programs of instruction Oakland University requires all students to share in a series of courses designed to provide a broadening, intellectual experience in liberal education. These courses are known as the University Course Program. For complete information regarding the University Course Program page 56 should be consulted. What follows here is a general statement of the University Course requirements:

1. All students are required to take two semester courses of Freshman Exploratories within their first three semesters. These Freshman Exploratories taught in seminar-sized classes, offer an opportunity for the student to explore a wide variety of liberal subjects, and are intended to develop the student's ability to think, to discuss, and to write intelligently and critically. Freshman Exploratories satisfy the University requirements for freshman composition. Freshman Exploratories may be selected from the areas of Literature, Western Institutions, Fine Arts, Social Sciences, non-western Civilizations, Science and Mathematics. No two exploratories may be selected from the same area.

2. Beyond this all students are required to pursue further study in the fields of Literature, History or Philosophy, Art or Music, the Social Sciences, non-western Civilization, Mathematics, and Natural Sciences. This field distribution requirement is normally taken throughout the student's eight semesters of residence.

3. In the senior year all students must participate in a Senior Colloquium taken outside the student's major program. The Senior Colloquium serves to focus attention upon issues of liberal intellectual concern.

4. All students are required to study or otherwise demonstrate a proficiency in a foreign language.

### **Professional Programs**

For the student planning a career in either dentistry, law or medicine, excellent opportunities are provided for preparation in these fields within the liberal arts curriculum. However, a student who has chosen a particular goal is advised to investigate the requirements of the professional school as early as possible. The requirements of professional schools vary widely, but the flexibility of course offerings at Oakland University makes it possible to satisfy the requirements of most professional schools. Special faculty advisers are available to help plan programs for preprofessional students.

The Concentration in Premedical Studies appears on page 193.

# STUDENT SERVICES

When a student arrives on the Oakland University campus, he finds that many persons are interested in helping him adjust to college life. The various student services and their operations are outlined in the sections following.

## **Dean of Students**

The primary objective of the Office of the Dean of Students is to contribute to student development through a diversified program of educational services and activities. Opportunities are offered for students to receive assistance regarding personal and social problems and to experience group living, student government, and cultural, intellectual and social activities. The functions of the office include: general counseling; academic advising; administration of academic standing, withdrawal and readmission policies; student housing; financial aids; student health; physical education; and operation of the Activities Center, Book Store, and other facilities of the Oakland Center. Students who need assistance concerning student affairs or personal matters are encouraged to consult the staff members of the various services and agencies which are a part of the Office of the Dean of Students.

## **Academic Advising**

Every student is assigned to a member of the faculty who serves as his academic adviser. Entering freshmen meet with their advisers at orientation sessions held before the start of classes in September. When the student enters his major area of study, he may be assigned to a new adviser in his major field. This change ordinarily takes place when a student has completed between twelve and sixteen courses. A student may request a change of adviser at any time at the Advising Office, but he must first obtain the assent of the prospective adviser.

All advisers are prepared to help with the selection of courses, the development of career interests, and academic problems. Students are encouraged to meet with their advisers prior to electing courses. All changes in enrollment must be initiated with the adviser.

Entering students who have questions about the advising program should direct them to the Dean of Freshmen. The

assistance of the Freshmen Advising Staff is particularly helpful in acclimating the new student to the requirements of the college experience.

### **Alumni Relations**

The Alumni Relations office publishes regular issues of the *OU Alumni News*, conducts an annual alumni reunion at the time of the Meadow Brook Festival, administers the alumni fund drive and maintains records of the alumni.

An Alumni Council composed of Oakland graduates works closely with the Alumni Relations office in establishing alumni policies and procedures.

### **Reading Center**

The University Reading Center is available for students who wish to improve their reading and study skills. While many students who have difficulties in meeting their reading and study obligations can benefit from the help offered by the Center, others whose skills are already well developed but wish to improve them further can benefit at least as much. A trained staff and special facilities are available in Rooms 311 and 314, Wilson Hall and Students may arrange appointments either directly or through referral by their adviser, the Office of the Dean of Students, or the Office of Psychological Services.

### **Writing Center**

The Writing Center is designed to assist students in improving their writing competence. Members of the English faculty and a staff of graduate and undergraduate assistants accept students who enroll voluntarily in the Center and students who are referred by Freshman Exploratory instructors or academic advisers. Students in the latter category are enrolled in ENG 009, *Aids in Expository Writing*, in which S (satisfactory) or U (unsatisfactory) grades are awarded.

Grades awarded in Freshman Exploratories reflect the grades awarded in ENG 009.

### **Health Service**

The Health Service provides limited treatment and emergency care for full-time students. The service is staffed with a physician and registered nurses.

## **Continuum Child Care Center**

Students who have pre-school children may leave them for a small fee at the Child Care Center while attending classes or participating in other campus activities. Complete information may be obtained from the Continuum Center. (See page 198-199).

## **Psychological Services**

The Office of Psychological Services is designed to help the Oakland student with problems in academic, vocational or personal areas. This office is staffed with clinical psychologists trained to provide a wide range of testing and counseling activities to meet the needs of the individual student. The office is also responsible for all noninstructional testing for entrance purposes and orientation of new students. Service is available by appointment.

## **Placement Office**

The Placement Office provides assistance to graduating seniors interested in career-oriented employment in industry, business, government service, and some professional fields. It also assists with the placement of candidates for elementary and secondary teaching positions.

The Placement Office provides an occupational guidance and counseling service for all students who wish assistance in making a decision regarding a choice of careers.

A placement library containing descriptive material on career opportunities in most fields and professions is maintained for students' use.

Among other services performed by the Placement Office are alumni placement and all career-oriented summer or part-time employment.

## **Veterans**

Students eligible to attend the University under the various Public Laws providing veterans' benefits should keep in close contact with the Office of the Registrar. This office provides advice and assistance to eligible veterans and is responsible for reporting to the Veterans Administration.

# STUDENT HOUSING

A brief description of the student housing accommodations at Oakland University is given on page 8.

## **General Policy**

The University requires that all full-time (12 credits or more), unmarried students under the age of 21 who do not commute from the residence of their parents or legal guardian, must live in University housing. However, seniors under twenty-one years of age and students who will attain the age of twenty-one during the academic year may live in housing off-campus with parental consent. Students must register the address of their actual residence and any change of residence which takes place during the school year.

## **Application for Room**

New students should request a housing reservation through the Admissions Office. A \$25.00 Housing Deposit should accompany their request. This deposit serves as a breakage or damage fee and it is refunded when students properly check out of University housing provided no deductions are necessary. Upon a student's acceptance at Oakland, his reservations will be processed by the Housing Office. Notification of hall assignment will be made approximately four weeks before the beginning of each semester. Returning students may renew housing contracts through the Director of Housing.

Should an applicant for student housing find it impossible to honor an advance registration, the Director of Admissions should be notified of a change in plans prior to July 1 for Fall Semester, December 1 for Winter Semester, April 1 for Spring Semester. Any requests for refunds after these dates will not be granted, nor will reservation deposits made after the required dates be subject to refund if a student does not register and take up residence.

## **Check-In**

Students may occupy their rooms beginning the day preceding registration of the Winter and Spring Semesters, and for Fall Semester, the day of the Freshmen Convocation. Room and board are not provided during official recesses as

listed in the university calendar, or between semesters. If a student is enrolled for the succeeding semester, he may store his personal belongings in the halls between semesters.

The first meal served in the Winter and Spring Semesters is breakfast on the first day of registration. In the Fall Semester, the first meal is breakfast served on the day after the Freshmen Convocation. The last meal of any semester is breakfast following the last day of examinations. Meals are served cafeteria style in the Oakland Center or in Vandenberg Hall.

Rooms are furnished with study desks and lamps, chairs, bookshelves, wastebaskets, bulletin boards, single beds, pillows, dressers, wardrobes, and venetian blinds.

A weekly change of linen (two sheets, one pillow case, two bath towels) is provided. Students may provide for themselves such items as blankets, bedspreads, throw rugs, draperies, etc. Lamps, electric blankets, clocks, radios and record players are allowed subject to safety regulations.

Although general maintenance is provided by the University, students must assume responsibility for keeping their rooms in good order. Coin-operated washers and dryers are available in addition to free ironing facilities.

A head resident and student resident assistants live in each hall to provide leadership and direction in the personal welfare and extracurricular life of each student.

### **Cost**

The fee for room and board is \$445 per semester. If a student signs a housing contract at any time during Fall Semester, that contract is binding for both the Fall and Winter Semesters. If the contract is signed during the Winter or Spring Semesters, it is binding for a single semester only. Room and board fees are payable on or before registration or in three allotted payments due at registration and the first of the next two months.

### **Off Campus Housing**

Listings of off-campus facilities for single men, women, and married students are compiled in the Housing Office, 203 Wilson Hall.



*Mrs. Wilson's Birthday Party, 1966*



# STUDENT LIFE

Since intellectual and personal development take place in the student's cultural, social and recreational activities as well as in his academic work, Oakland University seeks to provide the opportunities and the climate that will foster this development. Students are encouraged to participate in some phase of a comprehensive program of sports and recreational activities, although there is no required physical education. Similarly, the pattern of co-curricular experiences and activities in publications, discussion groups, student government, music, dramatics, and cultural offerings are intended to enhance the student's development. Individual initiative is most important, and though help from faculty and staff is always available, students are directly involved in meaningful campus activity.

## **Student Government**

Student interests are represented through the Student Activities Coordinating Council, the Commuter Council, the Dormitory Council, and student membership on University committees. The Student Activities Coordinating Council, which is appointed by the Chancellor, coordinates campus student activities, allocates the student activities fee and deals with general campus problems. The Commuter Council is an elected, representative body, whose primary function is to provide a means of involving the commuter students in the decision making process and in University affairs. The Dormitory Council consists of representatives of the various residence halls, and the council seeks to provide a voice for the residents in the administration of the halls and in general University matters.

## **Clubs and Organizations**

Oakland University offers a diverse program of student activities. The Student Activities Coordinating Council sponsors a film series, lectures, Mrs. Wilson's Birthday Weekend, the Snow Carnival, the Fine Arts Festival, and other major events throughout the year. Special academic, religious, and political interest organizations are available to students. These organizations include the French, Spanish, and Philosophy Clubs; American Chemical and the Engineering Societies,

Newman Student Association; Oakland Christian Fellowship; Christian Science Organization; Wesley Foundation; Deseret Club; Young Democrat; and Young Republican Clubs. Each group plays an important role in campus life and supplements the campus social-cultural program. Student organizations of general interest to the campus community include two service clubs—Circle K and Women's Service Organization—as well as the Hi-Fi Club which presents a regular program of recorded music in the Oakland Center's Music Listening Room.

The Dormitory Social Committee sponsors special social and cultural activities primarily for resident students. Informal coffee hours with faculty members, play readings, parties and dances are some of the projects conducted by this committee. In addition, the Dramatic Arts Film Society sponsors a significant series of classic foreign and American motion pictures during the year.

The Association for Women Students is an organization in which all women students have membership. This organization is concerned primarily with women's programming for both resident and commuter students. Big-Little Sister program and Entertaining-in-Private-Homes project are two major events this organization sponsors.

### **Dramatics, Dance and Music**

The annual Fine Arts Festival is the cultural high point of the year. Through extensive effort from students and faculty, programs of drama, music, dance and art are presented. The best contributions from within the University community and outside it are assembled for a week of superb entertainment and education.

The Meadow Brook Theatre Guild presents one play each semester. Their offerings in the past have included Albee's "The Sand Box," Lorca's "The House of Bernarda Alba," and Strindberg's "The Ghost Sonata." With the help of their professional adviser, the Guild is able to provide students with opportunities to learn acting, directing, production, set design and construction, lighting and costuming. Productions are given in the Little Theatre of the Intramural Building. Classes in modern dance and ballet are offered in the course of the year through the Intramural Program and the Office of Continuing Education. The University Chorus of 150 voices is the

largest campus activity. It performs major choral works both on and off campus with groups such as the Minneapolis, Detroit, Pontiac and Saginaw Symphony Orchestras. Among works recently performed are Handel's "Messiah," Brahms' "Song of Fate," Stravinsky's "Symphony of Psalms," and Vivaldi's "Gloria." The men's Octet is often requested to entertain at dances and parties, and has a wide repertoire from which to oblige. The Hi-Fi Club presents a varied program of recorded music in the beautifully furnished Music Listening Room in the Oakland Center.

### **Meadow Brook Festival**

The Meadow Brook Music Festival, held in the Baldwin Memorial Pavilion on the campus of the University every summer brings the Detroit Symphony Orchestra to the campus for eight weeks of symphony concerts. Among the guest artists who have appeared with the orchestra are Isaac Stern, Claudio Arrau, Jerome Hines, Maureen Forrester and Van Cliburn. In connection with the music festival such outstanding groups as the Isaac Stern-Eugene Istomin-Leonard Rose Piano Trio and the New York Pro Musica are in residence on the campus for varying periods of time. Choral music conducted by Robert Shaw and programs in contemporary music, featuring especially commissioned works, are also included in the eight-week festival season.

### **Oakland Center**

The Oakland Center traditionally has served as the "Center" of social, recreational and cultural activity for members of the University community and friends of the University. The facilities in the Oakland Center include the Activities Center, the University Book Center, the Grill, meeting rooms, a lounge, two cafeterias, a faculty-staff dining room, a barber shop, a dry cleaners and an information desk where miscellaneous items such as candy, magazines, and newspapers are available. The Book Center is the campus source for books and general supplies. The Grill, with its own outdoor patio and an informal atmosphere, offers short orders, fountain items and snacks.

The Activities Center serves as a coordinating bureau for extra-curricular programs designed to enrich the cultural-social life on the campus. The Activities Coordinator works closely with student organizations in the planning and imple-

mentation of their programs. The Activities Center also houses offices for official student groups, an exhibit area, and student publications offices as well as the master calendar of campus-wide social and cultural events. In addition, a ticket desk for a variety of events (theater, sports, music, etc.) in the greater Detroit metropolitan area is an integral part of the Activities Center. Closely tied to the Activities Center is the student operated Pickwick Club which presently operates the billiards and ping pong facilities in the Oakland Center.

### **Art Exhibitions; The University Art Gallery**

The Department of Art is the principal sponsor at Oakland University of exhibitions of painting, sculpture and graphics. It presents several changing shows annually in the University Art Gallery in Matilda Wilson Hall, which also houses the beginnings of a significant permanent and extended loan collection. The latter has been generously provided by private collectors in New York, the Detroit-Birmingham area, and elsewhere. The Detroit Institute of Arts often cooperates with the University Art Gallery in the presentation of special material. Both the changing exhibitions and the permanent collection stress recent twentieth century art and the sculpture of primitive peoples (Africa, Oceania and the pre-Columbian Americas).

Internationally known art historians and artists appear at Oakland. Michigan's first professionally directed art "happening" was arranged on this campus by the Department of Art. The first honorary doctoral degree awarded by Oakland University to a practicing distinguished scholar was conferred upon an art historian.

Each year the University Art Gallery presents an exhibition of the best creative work by students enrolled in studio art classes, usually in cooperation with the Fine Arts Festival.

### **The Dramatic Arts Film Series**

A student group arranges a year-long schedule of foreign and American film classics. Tickets are available by semester or by performance. Films such as "The Seventh Seal," "La Strada," and "Birth of a Nation" are shown.

## **Student Publications**

Experiences in creative writing, editing and publishing are provided through student publications. The OAKLAND OBSERVER and the ASCENDENT are currently being published regularly. The OBSERVER is published once each week in newspaper form during the regular academic year, while the ASCENDENT serves as the University yearbook. These publications are written, edited, published by students with general guidance being provided by appointed faculty and staff advisers.

## **The Physical Education Program**

Oakland's voluntary physical education program encompasses instruction in sports activities, spontaneous recreation activities, planned recreation activities, competitive intramural sports, competitive extramural sports, sports clubs and competitive intercollegiate sports.

The program is designed as a service program for all students, faculty and staff. It is directed to the participating individual, rather than the spectator.

Instruction by the professional and volunteer staff is offered in approximately 20 sports at times most convenient to those desiring the instruction.

The facilities are available for spontaneous informal practice and play. For activities such as boating, bowling, camping, canoeing, fishing and horseback riding arrangements can be made for equipment and transportation for participating off campus.

The competitive intramural sports program for men and women students, faculty and staff includes 8 to 11 different individual and team sports each term. Participants, individual or team, may represent dormitory wings or floors, campus clubs, ride clubs or other campus organizations or they may participate as unattached individuals or teams.

Students who participate in the intramural sports program are extended opportunity to compete with students from other colleges and universities four or five Saturdays each term. Oakland is usually represented by 3 or 4 teams in basketball, softball, tennis and volleyball and by 6 to 12 indi-

vidual students in archery, badminton, golf, tennis, table tennis, and other individual activities.

Men and women with mutual interest in a certain sport or recreational activity are encouraged to organize and develop clubs for instruction, practice and competition both on campus and off campus.

Students with interest in intercollegiate sports competition in certain individual and team sports are encouraged to train for and to participate in recognized intercollegiate meets and games as individuals or as team members representing Oakland University. There is competition in cross country, golf and tennis in the fall; basketball, fencing, and swimming during the winter; and golf, tennis and track events during the spring and summer.

Equipment and supplies for a great variety of sports activities are available for checkout in the Sports and Recreation Building upon presentation of the student identification card.

# ADMISSIONS, REGISTRATION, AND GRADUATION

## **Requirements for Admission**

The University considers the best preparation for its work a program of studies at the high school level which consists chiefly of those fields that are fundamental to the liberal arts: English, mathematics\*, foreign languages, social studies, and science. Students admitted to Oakland are chosen on a selective basis, with consideration given to the candidate's high school academic achievement, recommendations, aptitude test scores, leadership qualities, interests, and educational goals.

In doubtful cases, a candidate may be asked to the campus to take a qualifying examination, the results of which will become one of the criteria for determining admissibility.

Out-of-state students must present with their application for admission either Scholastic Aptitude Test results of the College Entrance Examination Board or results from the American College Testing Program.

Under the Michigan Association of Schools and Colleges Program, Oakland accepts students from among the *more* able graduates of accredited high schools without regard to the pattern of subject matter completed, provided they are recommended by their high school principals.

## **Application for Admission**

Application forms, available from high school counselors or the University director of admissions, should be completed and submitted as early as possible in the senior year, and in any case before the end of the school year.

## **Advanced Placement**

Credit toward graduation is granted to students presenting evidence of satisfactory completion of courses in high school under the Advanced Placement Program of the College Entrance Examination Board. Oakland gives credit for grades of 5 or 4 in the Advanced Placement examinations. If a grade of 3 or 2 is achieved, the examination is subject to review by the department concerned, which may grant advanced placement with or without credit toward graduation.

\*Students planning majors in the sciences, mathematics, engineering or business administration must present at least three years of mathematics (algebra, 1½ units; geometry, 1 unit; and trigonometry, ½ unit).

## **Transfer Admissions with Advanced Standing**

A student is eligible to transfer to Oakland from another college only if he is entitled to an honorable dismissal without social or academic probation. He must complete an application form, have his Dean of Students complete the Personal Qualification form, and request the Registrar of his institution to send an official transcript of his record. Each application will be considered on its merits.

Credit is granted for individual courses passed with a grade of "C" or better at accredited institutions, provided that these courses fit into the Oakland curriculum.

## **Readmissions**

A student whose registration at Oakland is interrupted for one or more semesters, except the Spring Semester, must be readmitted. Application should be made to the Dean of Students at least one month before reentry. Students who have attended another college or university during their absence from Oakland must pay a \$10 application fee. A check in this amount, payable to Oakland University, should accompany the application.

## **Foreign Students**

A student from abroad should write to the Director of Admissions, Oakland University, Rochester, Michigan, at least a year before the time he hopes to be admitted. He will be sent instructions and an application, which he should complete and return at once. When the application is approved, he will receive a certificate of permission to enter the University. These forms will help the student in making application for his passport and a student visa.

## **Orientation**

A summer orientation for freshmen and transfer students is held on several convenient dates during June, July, and August. At this time placement testing will be administered, general information about the University will be disseminated, academic advising and registration will take place. All new students, except those from out of state and foreign countries, are expected to attend one of the summer orientation programs. Out-of-state and foreign students will participate in an orientation program after their arrival on campus and before attending classes in the fall.



## **Course and Credit System**

The unit of credit is the semester hour. Courses carry four semester hours of credit unless otherwise specified. Normally the maximum student registration is 16 to 18 credits a semester. With his adviser's permission, however, a student who has completed 12 or more credits at Oakland may register for as many as 21 credits provided that his cumulative grade point average is at least 2.60. All other students may take more than 18 credits only as a result of a successful Petition of Exception.

## **Change of Courses**

To drop a course, a student must have the permission of both the instructor and his academic adviser. Denial of permission is to be subject to review by the Committee on Instruction.

Courses may be dropped at any time up to the end of the ninth week of the semester. The only grade recorded by the Registrar for a course dropped during this period is an "N" grade. Courses approved for dropping before the close of the second week of classes will not be entered on the student's record.

No addition of courses or change of sections initiated by the student can be made after the end of the second week of classes.

## **Repeating Courses**

With permission of his adviser, a student may be allowed to repeat a course. No course may be repeated more than twice. The last grade earned in a course will be used to compute the student's grade point average. A fee of \$5 per credit is charged for all courses repeated.

## **Grades and Grade Point System**

Oakland has a numerical grading system ranging in tenths from 0.0 to 4.3. Grades from 2.0 to 4.3 are in the range necessary for graduation, but grades from 0.0 to 1.9 are in the penalty range. The numbers 0.1, 0.2, 0.3 and 0.4 are not used.

Oakland University grades may be described as follows:

- 4.3 highest grade
- 4.0 excellent
- 3.0 good
- 2.0 satisfactory
- 1.0 inadequate but receives credit
- 0.5 lowest grade receiving credit
- 0.0 failure; no credit

The minimum cumulative grade point average for graduation is a 2.0.

### **I—Incomplete**

The I (Incomplete) is a temporary grade that may be given only after the thirteenth week in a course where a student is unable to complete the required work because of severe hardship. An "I" grade does not become official until approved by the Provost.

The "I" grade must be removed by completing the required work before the deadline set by the instructor but in no case later than the end of the next semester that the student is in residence, or a grade of 0.0 will be recorded. If more than three semesters intervene before the student resumes residence, then the "I" grade becomes an "N" grade.

### **N—No Grade**

The grade of N (no grade) is given only during the first nine weeks of the semester when a student drops a course or officially withdraws from school.

### **P—Progress**

The grade of "P" is a temporary grade that may be given only in a course that could not be completed in one semester. A department that wishes to assign the grade of "P" must receive approval prior to enrollment from the Committee on Instruction. Such courses are primarily research in nature. This grade is given only for work that is satisfactory in every respect except that completion necessitates going beyond one semester.

"P" grades must be removed within two calendar years from the date of assignment. If not removed within the time limit the "P" will be changed to an "N".

### **Grade Point Average**

A student's grade point average is computed by multiplying the grade received by the hours of credit for each course and dividing by the total credits carried in all semesters. If a course has been repeated, only the credits carried and the points of the last grade earned are computed. Courses for which grades "I" or "N" are reported are not used in this computation.

### **Academic Record**

A report of the student's grades earned in each course is sent to the student at the end of each semester.

A student may be warned, placed on probation, or suspended from the University if his work is not satisfactory.

A permanent record of all the student's courses, credits and grades earned is kept at the Registrar's Office. Copies of the permanent record are available to the student upon request and payment of a small service charge.

### **Withdrawal**

A student withdrawing from the University must do so through the Office of the Dean of Students. The withdrawal must be presented to the Registrar for recording and authorization for any possible refund. Grades and refunds are determined according to the effective date of the withdrawal. All students who withdraw must obtain permission from the Dean of Students to register again.

Upon official voluntary withdrawal from the University grades will be assigned as follows:

- a. before the end of the first two weeks of classes no grades will be recorded.
- b. from the third week through the ninth, a grade of N will be given.
- c. after the ninth week, a grade of N or o.o will be assigned by the instructor in consultation with the Dean of Students.



The Kresge Library

## Requirements For Bachelor's Degree

A student must meet the following requirements in order to graduate:

1. Have completed at least 124 credits.
2. Have completed 32 credits at Oakland University. At least 16 of these credits must be in his elected major. A student must be registered at Oakland University for at least 8 credits during the semester in which the degree is to be conferred. This is the residence requirement; exception may be obtained by successful petition to the Committee on Instruction.
3. Have a cumulative grade point average of at least 2.0.
4. Have attained a minimal breadth in his program by:
  - a. Passing at least 8 credits as genuinely free electives, and
  - b. Passing 36 or more additional credits as specified to satisfy University Course Program. These requirements shall include two Freshman Exploratories, and the field distribution course requirements appropriate to the chosen major, and a Senior Colloquium.
5. Have fulfilled all requirements for an elected major and have at least a 2.0 average in the courses required for a major.
6. Have fulfilled the requirements for Michigan Public Law 229, by taking either the University Course in Political Science or any combination of two courses from the University Course Social Science sequence or the American History sequence.
7. Have demonstrated facility in a Foreign Language as required by the elected major.

[All students in Liberal Arts majors, with the exception of Biology, Chemistry, and Physics, shall be required to demonstrate proficiency in a Foreign Language through the fourth semester level by placing beyond second year language at the college level in a proficiency examination administered upon admission, or, if need be, by successfully completing a four-semester course in language at the college level. All students in preprofessional programs (Teacher Education both elementary and secondary; Business Administration; Engineering) and liberal arts majors in Biology, Chemistry, and Physics, shall be required to demonstrate reading knowledge of a foreign language by placing beyond first year language at the college level in a proficiency examination administered upon admission, or, if need be by successfully completing a second semester course in language at the college level.]

# TUITION AND FEES

## Course Fees and Tuition Charges

Tuition is assessed each semester on the basis of the credit value of the courses carried, as follows:

|                   | Michigan Resident<br>Course Fees | Out-of-State<br>Tuition |
|-------------------|----------------------------------|-------------------------|
| 1-3 Credits ----- | \$ 56                            | \$179                   |
| 4-6 Credits ----- | 88                               | 260                     |
| 7-9 Credits ----- | 125                              | 353                     |
| 10+ Credits ----- | 189                              | 522                     |

(All fees are payable at registration.)

## Other Fees

### Processing Fee

A fee of \$10 must accompany all applications for admission. This is a processing fee and is *not refundable*.

### Late Credential Fee

A fee of \$5 is charged students who fail to file credentials before 5 p.m., seven days before the first day of registration.

### Late Registration Fee

Students registering or paying fees after the regular registration date are required to pay an additional, non-refundable fee of \$15 for the first day, plus \$5 a day until a maximum of \$25 is reached.

### Repeat Course Fee

An additional fee of \$5 per credit is charged for all courses repeated.

## Course Fee Deposit

Within three weeks after notification of admission, a deposit of \$50 must be paid, part of which will be applied to orientation expenses. The remainder will be applied to tuition.

One half of this deposit is refundable if a student notifies the University before April 1 that he does not intend to enroll. *No refunds* will be made after that date.

## Room Deposit

Requests for room reservations must be accompanied by a \$25 deposit which is refundable up to July 1, if the University is notified. This deposit is held on account as long as a student resides in University Housing. It does not apply toward the Housing fee. Deposits made after July 1 are not refundable.

## Refunds of Fees

A student who withdraws voluntarily before the eighth week of the semester will receive a refund of one-half of his course fees. The student must present to the Registrar's Office an official withdrawal slip, his fee receipt, and his identification card. No refund will be given after this time. Housing fees are refunded on a pro-rated basis.

A student dropping a course (before the eighth week) which puts him in a lower fee category will receive a refund of half the difference between the two fee groups. No refund will be given after this time.

## Out-of-State Tuition Rules

1. A resident of Michigan (except for aliens) is defined as a person who has resided in this state six months immediately preceding his first enrollment.
2. No one may gain or lose the status of a resident while a student at the University.
3. The residence of a minor shall be the same as his legal guardian *except* where guardianship has been established in this state for the purpose of evading the fee.
4. Aliens who have secured their Declaration of Intent papers and have otherwise met the residence requirements shall be considered residents.
5. The residence status of any person other than a parent or legal guardian who may furnish funds for payment of University fees shall in no way affect the residence status of the student.

## ESTIMATED EXPENSES

The cost of attending Oakland is moderate. For a commuter student \$334 per semester may cover all costs: tuition, books, lunches, and transportation.

The basic costs for a Michigan student living on campus would be about \$679 per semester for tuition, books, room, and board. For an out-of-state student they would be about \$1,012 per semester.

Since under the three-semester plan a student may go to school three semesters a year instead of two, the eight terms can be telescoped into two and two-thirds years. Thus, the costs are more in each of the first two calendar years, but the total remains the same.

A table of estimated basic expenses for a semester, which does not include such things as laundry, transportation to and from home for students living on campus, clothing or incidental spending money, follows:

|                        | Commuter | Michigan Resident | Out-of-State |
|------------------------|----------|-------------------|--------------|
| Course Fees -----      | \$189    | \$189             | \$522        |
| Books and Supplies --- | 45       | 45                | 45           |
| Board and Room ----    |          | 445*              | 445*         |
| Lunches and Local      |          |                   |              |
| Transportation ----    | 100      |                   |              |
|                        | \$334    | \$679             | \$1012       |

\*This charge includes a \$2.00 dormitory government charge.



## FINANCIAL AIDS

Oakland University seeks to provide financial aid to worthy students who do not have sufficient funds to finance their education. This aid is offered in the form of scholarship grants, National Defense Education loans, and, in some cases, campus jobs.

The University is a member of the College Scholarship Service and requires the parents of all students seeking assistance to file a confidential financial statement with that organization. This statement is necessary in order that a need factor may be determined, and the form for it may be obtained from the applicant's high school, from the University, or by writing to the College Scholarship Service, Box 176, Princeton, New Jersey.

Because all awards are based on academic achievement and financial need, the stipends vary. Under this policy it is possible for the University to make awards ranging from an amount equal to full tuition, room and board, to a small honorary stipend. Also, this policy allows the applicant to be considered for all awards for which he is eligible. *Applicants need not apply for a specific scholarship.*

All financial aid awards at Oakland University will be subject to renewal each semester of attendance. A student who has maintained a cumulative grade point average of 2.5 or higher will have his aid automatically renewed through eight (8) semesters of work as long as the need for financial assistance continues. It is expected that all students receiving financial aid will carry a full load of courses, defined as 4 courses per semester. Rare exceptions to this requirement will be handled by petition to the appropriate committee.

The greater part of the funds available for Oakland's aid program have been raised by the Oakland University Scholarship Committee, a dedicated group of women of the greater Detroit area. Scores of individuals, groups, and companies have provided funds for other awards in varying amounts to help deserving students. Donors contributing \$200 or more up to the date of printing are listed at the end of this section. Unless otherwise noted, all scholarships are awarded by a University scholarship committee and may be renewed each year throughout the recipient's college career if he maintains a satisfactory record.

*For Freshmen:*

Nearly 300 awards ranging from \$50 up to the full amount of tuition are made each year. The amount of the award is based on need. In addition, Oakland has a competitive scholarship program which is open to all high school seniors. The competitive examination is held annually during the month of November. It is not necessary for a student to have been admitted to Oakland to participate in the competition. Winners for six premium scholarships are selected by a scholarship committee. Included in this group of scholarships are three General Motors scholarships with stipends up to \$2000 per year for four years.

*For Junior College and Transfer Students:*

Students who apply as transfer students from accredited public junior colleges in Michigan will be considered for all awards normally made available to freshmen. The same procedure of filing the parents' confidential statement with the College Scholarship Service should be followed. Transfer students from other four-year institutions are eligible for loan opportunities and campus work. Such students, however, do not qualify for scholarship grants until they have completed at least one year of academic work at Oakland University.

**Special and Endowed Scholarships**

*Alvin M. Bentley Foundation Scholarship:*

A one year award made to a Michigan high school graduate. The amount of the scholarship is up to \$750 for a resident student, or up to \$500 for a commuting student.

*Consumers Power Scholarship:*

Annual one year scholarship of \$300 to a freshman student coming from an area served by Consumers Power Company.

*The Harlow H. Curtice Memorial Scholarship:*

An award established to honor the late Harlow H. Curtice, President of General Motors Corporation.

*Detroit Edison Scholarship:*

One annual award of \$400 to a freshman student coming from an area served by Detroit Edison Company.

*General Motors Scholarship:*

One award is made each year to an entering student under the nationwide scholarship program of the General Motors Corporation. The award is worth from \$200 to \$2000 a year, depending on need.

*The Mrs. C. Allen Harlan Scholarship:*

An annual award to an entering freshman.

*E. F. Johnson Memorial Scholarships:*

Three \$500 scholarships awarded annually to students in engineering. These scholarships have been established by the Mary Louise Johnson Foundation to honor the contribution made by Mr. Johnson to the business climate of our community.

*Mr. and Mrs. Roger M. Kyes Scholarship in English:*

One award worth approximately \$400 a year is given annually to an upperclass student majoring in English.

*Mildred Byars Matthews Memorial Scholarship in Art History:*

This fund has been established in honor of a former member of the faculty of Oakland University to create an endowed scholarship for an outstanding art history major.

*Margaret E. Oakley Memorial Scholarship:*

Established in memory of the late Mrs. Addison (Margaret E.) Oakley, former chairman of the Oakland University Scholarship Committee and loyal friend of the University. This award covers tuition costs for three semesters.

*Pontiac Central High School Scholarships:*

Established by Pontiac Central students, this award of approximately \$250 a year is made annually on the basis of competitive examination. Both entering and enrolled students who are graduates of that high school are eligible.

*Alfred G. Wilson Honor Scholarship:*

Established in memory of the late Alfred G. Wilson, this award is worth up to \$1,000 and will be presented annually to an incoming freshman who may retain the scholarship for four years if his scholastic record is maintained and financial need exists.

*Matilda R. Wilson Honor Scholarship:*

Established by the Friends of Oakland University, this award is worth up to \$1,000. The award is made each year to an incoming freshman who may retain the scholarship for four years if his scholastic record is maintained and financial need exists.

*Village Woman's Club of Birmingham Scholarship:*

An award made to a woman student from Oakland County.

*A. Glen Wilson Endowment Fund:*

An endowment fund established with the earnings to benefit the general scholarship fund.

The following is a list of donors who have contributed a gift of \$200 or more during the period from 1962 to the time of printing of this catalog.

|                                 |                                |
|---------------------------------|--------------------------------|
| Abernethy Foundation            | Community National Bank        |
| Adams, Charles F.               | Consumer's Power Company       |
| Ahrens, Don E.                  | Critchfield, R. M.             |
| Alpha Delta Kappa-Zeta Chapter  | Curry, Mrs. D. H.              |
| American BPW Association,       | Dawson, Hanley Chevrolet       |
| Tipacon Chapter                 | Delta Kappa Gamma,             |
| American Society of Tool & Mfg. | Alpha Gamma Chapter            |
| Armstrong, Mr. and Mrs. R. A.   | Detroit Bank & Trust Company   |
| Awrey, Wilbur S.                | Detroit Edison Company         |
| Baldwin Rubber Company          | Duffy, Irving A.               |
| Barker, Dr. and Mrs. H.         | Dykstra, John                  |
| Beaudette Scholarship           | Dykstra, John—Foundation       |
| Bentley, Alvin M. Foundation    | Eppert, Ray R.                 |
| Scholarship                     | Eurpac Service, Inc.           |
| Boegehold, Alfred L.            | Exchange Club of Brooklands    |
| Boice Builders Supply           | Fisher, Max M.                 |
| Booth, Warren S.                | Fitzgerald, Harold A.          |
| Brooks, Glenn R.                | Ford, Russell G.               |
| Bugas, John—Fund                | Fruehauf, Roy—Foundation       |
| Business and Professional       | Frost, Jerrold                 |
| Women's Club, Royal Oak         | Gelemey, Mr. and Mrs. Theodore |
| Campbell-Ewald Company          | General Motors Corporation     |
| Carey, Mr. and Mrs. Walter      | General Motors Girls Club      |
| Chamberlain, Mrs. Jesse         | Gordon, John F.                |
| Colbert, Mr. and Mrs. L. L.     | Gossett, Mr. and Mrs. William  |
| Cole, Edward N.                 | Graham, Mrs. Graham J.         |

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Greater Detroit Chevrolet Dealers | Putnam Tool Company              |
| Hamburger, Sam and L.             | Republicans of Oakland County    |
| Foundation                        | Reuther, Mr. and Mrs. Walter—    |
| Haupt, Jack and Mrs.              | Foundation                       |
| Higbie Manufacturing Company,     | Reynolds Metals Company          |
| Avon Tube Division                | Richardson Foundation            |
| Hills Theater, John D. Taylor     | Rinehart, T. M. Jr.              |
| Howlett, Harold E. Memorial       | Rinshed-Mason Company            |
| (Community National Bank)         | Roche, James M.                  |
| Hunt, O. E.                       | Rochester Junior Women's Club    |
| Johnson, Mary Louise—             | Rochester Paper Company          |
| Foundation                        | Rotary Club of Pontiac           |
| Junior Chamber of Commerce,       | Rotary Club of Southfield        |
| Pontiac                           | Sanders, Fred W.                 |
| Junior League, Birmingham         | Scott, Dr. Marion L.             |
| Klotzberger, Edward C.            | Seidman, William and Sarah—      |
| Knudsen, S. E.                    | Foundation                       |
| Macomb Town Hall                  | Shenefield, John W. and Madeline |
| Mahon, R. C.—Foundation           | Sterling and Clark Agency, Inc.  |
| Michigan Bell Telephone           | Teacher Education Association—   |
| Company                           | Oakland University               |
| Michigan Tractor & Machinery      | Trumbull, Mr. and Mrs. George T. |
| National Bank of Detroit          | Van Dusen, Mr. and Mrs. W. D.    |
| National Foundation of Rochester  | Wasserberger, George A.          |
| National Twist Drill & Tool       | Wayne Oakland Bank               |
| Company                           | Wilson, Dr. Elizabeth M.         |
| Nichols Company, The              | Wyman Furniture Company          |
| Norvell, Mr. and Mrs. Ralph T.    | Zeder, James C.                  |
| Oakland County Scholarship        | Zonta Club of Pontiac            |
| Committee                         | Women's National Farm and        |
| Ott, Wilbur                       | Garden Assoc. (Lake Angelus)     |
| Oxford Savings Bank               | Women's National Farm and        |
| O'Dell, Hewlett & Luckenbach,     | Garden Assoc. (Pontiac)          |
| Associates                        | Women's National Farm and        |
| Pontiac-Oakland Town Hall, Inc.   | Garden Assoc. (Rochester)        |
| Pontiac State Bank                |                                  |

## Loans

Several loan funds are available for assistance to students in good standing on the basis of need. The University participates in two Government programs, the National Defense Education Act Program, and the Federal Guaranteed Loan Program, both of which offer loans at low interest rates and long repayment periods.

Short term loan assistance is provided from the following funds:

|  |   |
|--|---|
| Century Brick Loan Fund                      | Li Russ Club Student Loan Fund                    |
| David R. Robson Memorial Loan Fund           | Walter K. Willman Loan Fund                       |
| Pontiac Kiwanis Club Loan Fund               | W. Everett Grinnell Loan Fund                     |
| C. Allen Harlan Loan Fund                    | Oakland County Engineering Society Loan Fund      |
| H. H. Corson Loan Fund                       | Student Activities Coordinating Council Loan Fund |
| Joan Selby Memorial Loan Fund                | Woman's Literary Club of Pontiac Loan Fund        |
| Henry Tiedeman Loan Fund                     | Joan A. MacDonald Loan Fund                       |
| Greater Pontiac Centennial Student Loan Fund |   |

### **Part-time Employment**

Although demand almost always exceeds supply, on-campus jobs of varying kinds and durations have been provided for over 700 students at some time during each school year. Many of these have been for special occasions or tasks. Students who wish employment should register with the Financial Aids Office. Most students who have part-time employment work between 10 and 20 hours per week.

A student who works two hours a day or ten hours a week may earn up to \$210 per semester.

# COURSES OF INSTRUCTION

## **Regulations Governing Courses**

1. All courses are assigned four semester hours unless otherwise specified.

2. A course sequence joined by a hyphen (e.g., GRK 414-415) must be taken in the order indicated. The first course in such a sequence is regarded as a prerequisite to that following. A department, has, however, the right to waive these and any other prerequisite course requirements.

3. Course numbers separated by commas (e.g., HST 214, 215) indicate related courses, which may be taken in any order. Departmental or program requirements may govern the order in certain cases, however.

4. With the exception of University courses which are taken throughout all eight semesters courses numbered 100-199 are normally taken by students in the first and second semesters, 200-299 courses in the third and fourth semesters, 300-399 in the fifth and sixth semesters, and 400-499 in the seventh and eighth semesters. Courses numbered 500-599 are assigned to introductory graduate level courses, but most are also available to undergraduates, numbers 600-699 are generally assigned to courses open to graduates only.

5. The Registrar reserves the right to cancel any course in which there is insufficient registration.

## **Major Standing and Requirements for Majors**

A student must have completed 56 credits before he may formally be admitted to major standing. It is the student's responsibility to apply to the appropriate department for major standing before the end of the semester in which he completes 56 credits. A student may be admitted to major standing if he has passed all courses prerequisite to the major with at least a 2.0 average.

Requirements for a major and for a teaching major and minor in each discipline precede the course listings for each department. Many sample programs are outlined in these sections, as is the University Course program for a given major.

## The University Course Program

The University Course Program consists of Freshman Exploratories, Distribution Requirements, and Senior Colloquia. Normally the University Course Program is spaced throughout a student's entire undergraduate career.

- I. Freshman Exploratories ----- 8 credits  
All students must take within their first three semesters two exploratories chosen from the following groups (no two may be chosen from the same group): Literature, Western Institutions, Fine Arts, Man and Contemporary Society, Non-Western Civilization and Natural Science. Successful completion of two exploratories satisfies the University writing competency requirement. Freshman exploration should not be taken by transfer students with credit in composition from another institution.
- II. Distribution Requirements
- A. Literature ----- 4 credits  
(UC 018, or ENG 141, or any course under modern foreign languages numbered 271 or higher and especially those numbered 285.)
- B. Western Institutions ----- 4 credits  
(UC 036, or ED 244, HST 141, or HST 142, or PS 272.)
- C. Fine Arts ----- 4 credits  
(UC 047 or UC 049. Majors in Elementary Education should take ART 147 or MUS 149 instead of UC 047 and 049.)
- D. Social Sciences ----- 8 credits  
(UC 052, UC 054, UC 056, UC 058, PS 131, PSY 146)
- E. Non-Western Civilization ----- 4 credits  
(UC 062 or UC 066 — neither course is open to freshmen)
- F. Science and Mathematics ----- 12 credits  
(UC 085 or UC 086-087-088 or EGR 101 or courses required by a specific major. Students who elect to take only 8 hours in Science and Mathematics must take 8 hours in Fine Arts in two different fields.)



### III. SENIOR COLLOQUIA ----- 4 credits

These colloquia, designed to create an opportunity for senior students to work outside their major fields in one of their last two semesters of residence, will be available to students who enter on or after September, 1966.

Focusing upon important cross-disciplinary issues, they will be conducted by faculty drawn from the humanities and from the social and physical sciences.

Not offered in 1967-1968.

### **Charter College**

Charter College offers new students enrolling at Oakland University an alternate means of meeting their university course requirements in a small college atmosphere conducive to the development of relatively close personal contacts among students, and between students and faculty. Students who request assignment to Charter College prior to their first registration at Oakland will generally be admitted on a first-come, first-serve basis, without regard to scholastic aptitude, subject to certain limitations designed to keep Charter College as representative as possible of the Oakland student population as a whole.

Charter College students need meet none of the University Course requirements noted in this catalog, except that they are subject to the same language proficiency requirements as other Oakland students in their major or curriculum. They will instead take a total of 40 credit hours (normally ten courses) in liberal arts courses open only to Charter College students, including eight credit hours in each of their first two trimesters. Resident Charter College students will also be expected to live in a particular dormitory or section(s) of a dormitory set aside for them.

Charter College sections at any given class level (freshman, sophomore, etc.) are normally considered interchangeable, despite wide differences in subject matter. Each student's academic adviser (his instructor in his first trimester) is responsible for seeing to it that his Charter College experience is appropriately broad—generally including work in the humanities and sciences and social sciences. The only grades given in Charter

College courses are S (Satisfactory) and U (Unsatisfactory). A full evaluation of each student's participation in the college will be prepared by the Charter College faculty and made a part of his transcript at the time he graduates from or leaves the college.

CC 1,3 (Charter College Lectures) A series of lectures, concerts and other presentations arranged by the Charter College faculty. In conjunction with these lectures, students are expected to read a series of books nominated by the Charter faculty as valuable for college freshmen.

C 2,4 (Charter College Seminar) Each Charter faculty member is asked to teach whatever kind of course within his fields of competence he feels most enthusiastic about teaching. In the Charter College Seminars, each student will be expected to do a good deal of writing on assigned subjects. Detailed descriptions of the seminars are prepared each semester and made available in the Charter College office.

CC 1,3 and CC 2,4 are intended for freshmen and must be taken concurrently — except by special permission of the Charter faculty.

CC 5 A Charter College course in an area selected by the instructor, open to sophomores and juniors. The student will be expected to do less writing than in CC 2,4. (May be taken for credit up to four times.)

Prerequisite: CC 1,2,3,&4 or permission of the faculty chairman.

CC 6 A Charter College course in an area selected by the instructor, open to seniors. (May be taken for credit twice.)

Prerequisite: 8 Charter College courses or permission of the faculty chairman.

## **New College**

Master: Melvin Chernov, Associate Professor of History

Faculty: Jon Appleton, Thomas Aston, John Blair, David Booth, Richard Burke, John Cameron, Becky Malm, Norman Susskind, Richard Tucker, Marilyn Williamson

### *Program*

New College has been established on the conviction that a rigorous and systematic program of general education should

complement a student's major. The College offers a four-year program (8 semesters), involving about half the student's time in the freshman and sophomore years, and one-fourth of it after that (total: 48 credit hours). In general, the first year emphasizes the humanities; the second, social studies; and the third, science. The senior year in the College is more individualized. This program replaces the University Course Program required of undergraduates (see page 54), with the exception of foreign language study.

New College is available as an option to almost all students, whatever their contemplated major. Because of its commitment to a solid core of general studies, however, it is not normally feasible for students in the College to complete in 8 semesters a B.S. in Engineering or a B.A. in Business Administration, the sciences, or music. The College will gladly undertake to negotiate with such departments for compromises, but it can make no advance commitments in such cases.

The *freshman* program consists of a two-semester course in intellectual and cultural history (6 credits per term), and a two-semester Performing Arts Workshop (2 credits per term). The staff of the 6-credit course is chosen from the fields of European history, philosophy, literature, art history, and Eastern civilizations. Rather than attempting a superficial "survey" of the history of world civilization, they will pool their resources to study in depth a few of the great periods in the history of Eastern and Western Man. Lectures, small discussion classes, extensive reading, and frequent writing assignments make this course a rigorous introduction to the elements of a liberal education.

The *sophomore* program is devoted to the study of contemporary society, both in the classroom and at first hand. In the fall semester, each student will take a course (4 credits) introducing him to the study of American society: its major features, historical roots, and opportunities for planned social change. This course will build on student experience observing and studying social behavior in off-campus communities in the winter semester. During this "field term", each student will work on a project for which he will earn 12 credits. The College will help the student plan and execute a project which may involve salaried work, volunteer work, or an individualized program of study.

*Juniors* will take a two-semester course in science (4 credits) investigating its methods and significance through an examination of several fundamental problems. Materials will be chosen from both physical and biological sciences and perhaps from behavioral science as well.

A number of options will be available for *seniors*: tentative plans include interdisciplinary seminars, a project in a broad area outside the student's major field, an oral examination, and apprentice teaching in the College for selected students. The College will attempt to work out a program relating the study of a foreign language to a visit to a foreign country, perhaps French Canada or Mexico.

Any incoming freshman may apply for admission to New College. Decisions regarding admission will be made before students enroll for the fall semester.

NC 101, 102 Studies in the History of Civilization (6 credits)

Certain periods in the history of civilization will be studied intensively; political, economic, and religious institutions of a particular time and place will be related to literature, art, and philosophy, as well as to other times and places. (Fall and Winter)

NC 111, 112 Improvisational Theatre (2 credits)

This course is designed to examine the loss of creativity in the individual. A two-term course, it will actively combine various arts in a finished dramatic production. (Fall and Winter)

NC 121, 122 Making New Music

An ontogenetic study of the musical experience. The student will examine this experience by participating in the design of musical instruments, mastering a technique, developing a notation suitable to the instruments, and finally composing and performing his own music.

NC 131, 132 Dance

An opportunity to become acquainted with dance as an art form and to learn to use movement as a means of expression. Open to men and women.

NC 201 Man in Society (4 credits)

An introduction to American society as seen by a social scientist. Students will design a project which they will execute in their field term.

NC 202 Field Term (12 credits)

A semester spent at work or study according to a plan approved by the Placement Office and the instructor in NC 201.

## **UNIVERSITY COURSE DESCRIPTIONS**

### **FRESHMAN EXPLORATORIES**

#### **UC 01A Literature and Language**

Study of a variety of materials to define the unique interpretation of human experience which literature represents, how literature relates to other endeavors, and the various forms of and approaches to literature and the use of language.

#### **UC 01B Western Institutions**

Studies from a variety of viewpoints, of the nature and development of significant social institutions of the Western world, both ancient and modern, with attention to their relevance for the present.

#### **UC 01C Fine Arts**

Studies in art or music designed to enhance the student's disciplined understanding and engagement in the experience of visual and auditory modes of art. Staff is drawn primarily from the Departments of Art and Music.

#### **UC 01D Man and Contemporary Society**

An exploration of selected problems, ideas, issues or topics under the direction of faculty drawn primarily from the social science fields of economics, political science, psychology, and sociology.

#### **UC 01E Non-Western Civilizations**

Inter-disciplinary studies of the development and of the present character of the civilizations of China and India.

#### **UC 01F Science and Mathematics**

Studies in selected areas of mathematics and the natural sciences. These exploratories taught by faculty drawn primarily from the fields of biology, chemistry, engineering, mathematics and physics are designed for students with no necessary previous preparation in mathematics or the natural sciences.

## **LITERATURE**

### **UC 018 Western Literature**

Lectures on the literary tradition, forms and conventions of the West, enabling the student to acquire a sound foundation for the understanding and judgment of literature.

## **WESTERN INSTITUTIONS**

### **UC 036 Western Institutions**

Lectures in exploration of the development of characteristic political, social, and economic institutions of Western society in the context of those ideas which have been advanced to explain, understand, or justify them. Beyond providing a sense of fact, the course develops the skills of critical inquiry into complex historical and philosophical situations.

## **FINE ARTS**

### **UC 047 Introduction to Art**

A survey of architecture, painting and sculpture from pre-history to the present. The dualistic nature of the work of art is emphasized as the visual expression of artistic choice, individual and unique, yet part of an historical sequence of related forms. Major styles and periods and the fundamentals of visual analysis are stressed. Studio practice is not required.

### **UC 049 Introduction to Music**

An introduction to the techniques of listening to great music, and a study of its elements, forms, and styles. Begins at the level of the student lacking previous musical experience. Note: Prospective music majors should consult with the Music Department before registering for this course.

## **SOCIAL SCIENCES**

### **UC 052 Introduction to American Politics**

A study of the process of decision-making in the American national government, and the ways in which parties, groups, and individuals work to produce public policy in the Congress, the Presidency and the courts.

### **UC 054 Introduction to Social Psychology**

Observational, experimental, and analytical techniques for the objective study of relationships among men and the effects of these relationships upon the participants in them.

The analysis of social functions and roles; the study of the development and change of attitudes, beliefs and values; the influence of social groups on the individual; and the development of personality in relation to the social milieu are considered. Required of all teaching candidates, who should take this course in one of the first two semesters.

### **UC 056 Introduction to Economics**

Topics include national income and employment, money and banking, government expenditures and taxes, inflation and deflation, economic growth, prices in competitive and monopolistic markets, labor problems, and international trade. Note: Prospective economics or business administration majors should take this course in the first or second semester.

### **UC 058 Introduction to Sociology**

An introduction to the basic principles, concepts and theories of sociology, relating to the study of man as a participant in group life. Areas emphasized are social structure, cultural processes and patterns, socialization and personality development, social stratification, collective behavior, and population, as well as the major institutional areas.

### **AREA STUDIES**

Some University Courses concentrate on the fundamental principles, historical development, and major achievements of Western and American civilization. Others emphasize the processes by which the modern world functions. Area Studies courses complement these by turning the student's attention to major world civilizations, Chinese and Indian, that differ substantially from Western civilization and are making their own unique contributions to the modern world.

To satisfy the Non-Western civilization requirement, students normally will take UC 062 or UC 066.

### **UC 062 Introduction to China**

An exploration of the traditional civilization and modern development of China. Aspects dealt with include history, philosophy and religion, literature and the arts, government, and social organization. Prerequisites: Two Freshman Exploratories.

**UC 063 Advanced Chinese Studies**

Intensive study of aspects of Chinese civilization and history on a tutorial or seminar basis.

Prerequisites: UC 062 and permission of the instructor.

**UC 066 Introduction to India**

An exploration of the traditional civilization and modern development of the Indian sub-continent. Aspects dealt with include history, philosophy and religion, literature and the arts, government, and social organization.

Prerequisites: Two Freshman Exploratories.

**UC 067 Advanced Indian Studies**

Intensive study of aspects of the civilization and history of the Indian sub-continent on a tutorial or seminar basis.

Prerequisites: UC 066 and permission of the instructor.

**SCIENCE AND MATHEMATICS**

The science and mathematics requirement may be fulfilled by any of the following five: UC 085, UC 086, UC 087, UC 088, and EGR 101. This requirement also may be met by two departmental courses in science or one course in science and one in mathematics.

**UC 085 Mathematics**

A course for nonscience majors which emphasizes the creative and deductive nature of mathematics. Material is selected from set theory, logic, number systems, algebra, geometry, topology, and axiomatics. Not open to those with credit for MTH 125, 131, 154, 314, or 316 except by permission of the instructor.

Prerequisite: Two years of high school mathematics.

**UC 086, UC 087, UC 088 Science**

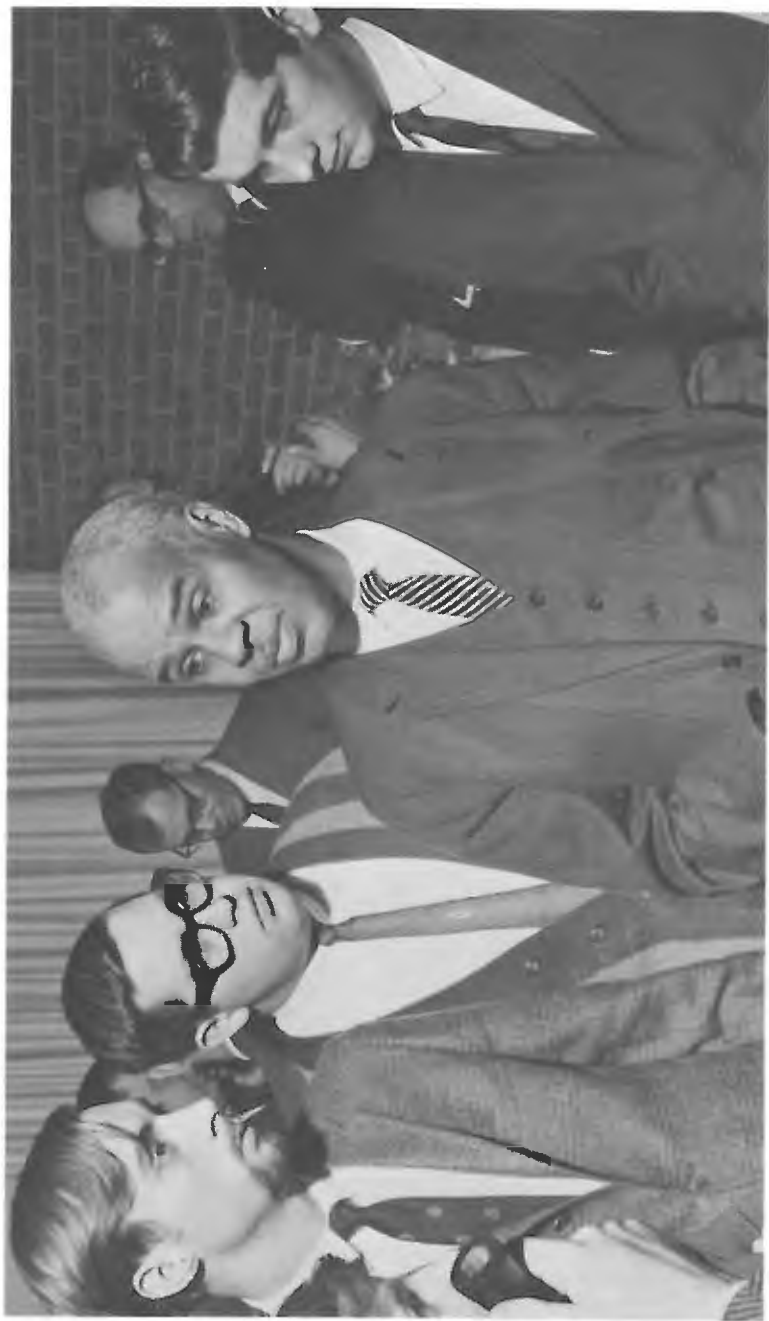
Courses for nonscience majors which provide knowledge and appreciation of science through readings, discussions, demonstrations, and laboratory work. Selected topics from the life sciences are presented in UC 086, and topics from the physical sciences are presented in UC 087 and UC 088. The courses may be taken independently of each other. Not open to those with credit for BIO 111, CHM 114, PHY 151, or any laboratory science course. Enrollment limited to those with more than 58 credits.

Prerequisite: Two years of high school mathematics.





**David Riesman, Harvard University Sociologist, visits with students**



*Roy Wilkins, Speaker Series, 1966*

# COLLEGE OF ARTS AND SCIENCES

GEORGE T. MATTHEWS, Dean  
REUBEN TORCH, Assistant Dean

## DEPARTMENT OF ART

### Professor:

John C. Galloway, Chairman (Art and Art History)

### Assistant Professors:

John L. Beardman (Art)

John B. Cameron (Art History)

Abraham A. Davidson (Art History)

Ross A. Norris (Art)

Kiichi Usui (Painting and Gallery Curator)

### Instructors:

Donald H. Dwyer (Art History)

### Lecturer:

Morris Brose (Sculpture)

Hélène Trocmé (Art History)

The professional scholars and artists who teach the program in art are dedicated to creative, disciplined training of the major and the general student alike. Each major in art receives fundamental preparation for graduate study in art history or studio art which may lead to a career in college teaching, museum curatorship, editorial work with art publishing firms, or independent practice of painting, sculpture or printmaking. The general student discovers that undergraduate study of art may reinforce his grasp of the historical and analytical factors of other specializations within the liberal arts curriculum. Knowledge of art helps to prepare any student for discerning cultural citizenship.

The Department enriches its program of instruction by presenting exhibitions in the University Art Gallery in Matilda Wilson Hall and by encouraging group or independent visits to the Detroit Institute of Arts and private collections. The Gallery also shows the best works by majors and general students enrolled in studio courses.

Several majors are selected annually by the Department to work as pre-professional assistants. These students, appointed on the basis of personal responsibility and sound academic achievement, receive training and experience invaluable to future graduate specialization.

Each major in art history and studio art is required to pass an oral examination, typically during the seventh semester and on a topic of his own choice drawn from the contents of a 400-level art course.

#### *Requirements for the Liberal Arts Major in Art History*

Nine courses in art are required, exclusive of University Courses. At least one, but no more than three, courses may be taken in the studio area. Admission to major standing ordinarily requires completion of two Freshman Exploratories, the two social sciences, and UC 047. UC 047 should be taken during the first or second semester.

#### *Requirements for the Liberal Arts Major in Studio Art*

Ten courses in art are required, exclusive of UC 047, FE (Art) or ART 147; and ART 226 must be completed before other studio courses may be taken. Three courses in art history, including ART 381, must be completed. One of the three art history courses must be completed before the student may take ART 226. It is emphasized that the studio art major is a general one and that there are NO separate majors in each of the three available studio areas: painting, printmaking, and sculpture. The student must complete course work in at least two of those areas, and is strongly advised to take courses in all three of them. The requirements for major standing are identical to those for art history majors.

#### *Requirements for the Secondary Teaching Minor in Art*

Four art history and studio courses are required, beyond UC 047, FE (Art), or ART 147. Two of these courses must be ART 333 and ART 381. Consult the Chairman of the Department of Art or the Dean of the School of Education for further information.

**LIBERAL ARTS MAJOR IN ART**  
(A typical program)

|  |   |  |  |
|--|---|--|--|
| <b>Semester 1</b><br>Freshman Exploratory<br>University Course 047<br>University Course<br>Foreign Language <sup>1</sup> | <b>Semester 2</b><br>Freshman Exploratory<br>University Course<br>University Course<br>Foreign Language   | <b>Semester 3</b><br>ART 333 or 381<br>University Course<br>Foreign Language<br>Elective | <b>Semester 4</b><br>ART 381 or 333<br>University Course<br>Foreign Language<br>ART 226 or ART History |
| <b>Semester 5</b><br>ART<br>University Course<br>Foreign Language <sup>2</sup> or<br>Elective<br>Elective                | <b>Semester 6</b><br>ART<br>University Course<br>Foreign Language <sup>2</sup> or<br>Elective<br>Elective | <b>Semester 7</b><br>ART<br>ART (400-Level)<br>University Course<br>Elective             | <b>Semester 8</b><br>ART<br>ART (480, 490, or 491)<br>Senior Colloquium<br>Elective                    |

<sup>1</sup>French and German are the preferred languages for art majors.

<sup>2</sup>Majors are urged, and may be required, to complete two semesters of a second language beyond the four-semester requirement. (see 1 above).

**ART 147 Introduction to History and Analysis of Art**

An introduction to the history and analysis of the visual arts. Designed chiefly for general elementary education majors, for whom it satisfies the University requirement in art (see also UC 047 and Freshman Exploratory in Art). May not be taken for credit by students who have taken UC 047 or Freshman Exploratory in Art.

**ART 226 Introduction to Studio Art**

A study of the fundamentals of drawing, painting, and other two-dimensional media. Designed chiefly for art majors and minors; required of majors in studio art and recommended for majors in art history.

Prerequisites: It is emphasized that all students, including art majors and minors, must have completed one course in art history, exclusive of UC 047, FE(ART), and ART 147, before they may be admitted to ART 226.

**ART 326 Painting**

A studio course in oil, water color, and other media. Designed mainly for art majors and minors.

Prerequisites: UC 047 or FE(ART) or ART 147; one course in art history; and ART 226.

**ART 327 Printmaking**

A studio course in the fundamentals of graphic arts (relief, planographic, intaglio, and serigraphic processes).

Prerequisites: UC 047 or FE(ART) or ART 147; one course in art history; ART 226; and ART 326.

**ART 328 Sculpture**

A studio course in third-dimensional and relief form using traditional and recent media.

Prerequisites: UC 047 or FE(ART) or ART 147; one course in art history; ART 226; and ART 326.

**ART 329 Sculpture**

The development of concepts and techniques in creative sculptural form. A studio course.

Prerequisites: Major or minor standing in art and completion of ART 328.

**ART 333 American Art**

Architecture, painting, and sculpture in the United States from the period of Colonial settlement until recent times. Relations to European art are stressed. Required of art majors and minors.

Prerequisite: UC 047 or FE(ART) or ART 147.

**ART 341 German Art**

The evolution of architecture, sculpture and painting in Central Europe from Roman times to the present, its originality and its relation with the Italian and French traditions.

Prerequisite: UC 047.

**ART 351 Primitive Art: Africa, Oceania, the Americas**

The major artistic styles of the regions of primitive peoples. The relation of primitive art to recent Western art is considered.

Prerequisite: UC 047, FE(ART), or ART 147.

**ART 361 Medieval Architecture and Sculpture**

The art of the West from the time of Constantine to the Renaissance. Emphasis is placed upon the major period styles: Early Christian, Byzantine, Early Medieval, Carolingian, Romanesque, and Gothic.

Prerequisite: UC 047, FE(ART), or ART 147.

**ART 369 Renaissance Art**

Architecture, painting and sculpture of the fifteenth and sixteenth centuries in Italy and northern Europe. Attention is centered upon major artists and their relationship with one another and with topical Renaissance problems such as humanism, the classical revival, and perspective.

Prerequisite: UC 047, FE(ART), or ART 147.

**ART 371 English Art, 1550-1850**

Architecture, painting, and sculpture in England from the introduction of Renaissance art in the reign of Elizabeth I to the Great Exhibition of 1851. In addition to a survey of English art, special attention is given to such major figures as Inigo Jones, Wren, Adam, Reynolds, Gainsborough, Constable, and Turner.

Prerequisite: UC 047, FE(ART), or ART 147.

**ART 373 Art of the Seventeenth Century: The Baroque**

The rise of the Baroque style of architecture, painting and sculpture in Italy and its development in France, Spain, and the Low Countries.

Prerequisite: UC 047 (completion of ART 369 also is recommended).

**ART 381 Twentieth-Century Art**

A study of modern art in Europe and the United States from 1905 to the present. Painting and sculpture are emphasized in an interpretation of major styles and movements such as Fauvism, Expressionism, Cubism, DeStijl, and Abstract Expressionism. Required of art majors and minors.

Prerequisite: UC 047, or FE(ART) or ART 147.

**ART 383 Modern Architecture**

Architecture in Europe and America from the late Nineteenth Century to the present, coupled with an investigation of the sources of modern architectural tradition and idiom.

Prerequisite: UC 047, or FE(ART) or ART 147.

**ART 426 Advanced Painting**

The development of techniques and ideas in creative painting. May be taken for four or eight credits per semester.

Prerequisites: Major standing in art and completion of two studio courses.

**ART 427 Advanced Printmaking**

The development of ideas and processes of graphic arts (relief, planographic, intaglio, and serigraphic). May be taken for four or eight credits.

Prerequisites: ART 226 and ART 327.

**ART 428 Advanced Sculpture**

The development of advanced creative and technical problems in sculptural media.

Prerequisites: Major standing in art and completion of two courses in art history and ART 329.

**ART 445 The Art of the Ancient Near East**

The course will deal with the art of Egypt, Mesopotamia, Iran, Asia Minor and Syria from Neolithic to Roman times. Prerequisites: UC 047 or FE (ART) or ART 147.

**ART 455 Greek and Roman Art**

The course is directed toward an historical and critical interpretation of pre-Classical and Classical styles of architecture, sculpture and painting from the Minoan Age through the Roman Imperial epoch.

Prerequisite: UC 047, or FE(ART), or ART 147.

**ART 465 Byzantine Art**

The course deals with the development of Byzantine architecture, mosaic, painting, and sculpture from the time of Justinian in Byzantium and Italy to the fifteenth century in Russia and the Balkans.

Prerequisites: UC 047 or FE(ART) or ART 147, and ART 361 or ART 455.

**ART 473 Art of the Eighteenth Century: The Rococo**

The evolution and spread of the Baroque style throughout the western world, with emphasis on central Europe and the Spanish Colonial possessions. The emergence and spread of the Rococo until the final reaction of Neo-Classicism.

Prerequisites: UC 047 or FE(ART) or ART 147 (completion of ART 373 is recommended).

**ART 480 Seminar in Art History**

The course initially familiarizes art majors with the literature and research facilities of art history. Individual topics of special interest are then assigned for intensive study. Required of all majors in art history and recommended for studio art majors. May be taken for four or eight credits. Prerequisites: UC 047 or FE(ART) or ART 147, and two courses in art history.

**ART 490 Special Problems in Studio Art**

Individually assigned projects in painting, printmaking, or sculpture. May be taken for four or eight credits.

Prerequisites: Senior standing as art major, and completion of two courses in art history and two courses in studio.



### **ART 491 Special Problems in Art History**

A program of individually assigned research problems, designed for the advanced major in art history. May be taken for four or eight credits.

Prerequisites: Major standing in art and completion of three courses, at least one of them 400-level, in art history.

### **DEPARTMENT OF BIOLOGY**

Professors:

Clifford V. Harding, Chairman

Reuben Torch

Walter L. Wilson

Associate Professor:

William C. Forbes

Assistant Professors:

Francis M. Butterworth

John Reddan

Herbert Schuel

Nalin Unakar

The courses in biology are designed for students in two types of major: liberal arts majors and secondary education teaching majors. The liberal arts major prepares the student for graduate studies in the life sciences, laboratory and research work in industries concerned with biological materials, and professional careers in medicine, dentistry, and allied fields. The pre-medical student will be especially well-prepared by the liberal arts program outlined here. Since modern biology is an exact science, corequisite training in chemistry, physics, and mathematics is necessary.

The secondary education biology teaching major, with group minor in chemistry and physics, is designed for the student wishing to teach in junior high school and high school. The required education courses are included in the program so that the graduate may be sponsored for certification.

#### *Requirements for the Liberal Arts Major in Biology*

Forty credits in biology are required. This must include eight lecture courses. (Corresponding lecture and laboratory courses must be taken simultaneously.) In addition, sixteen credits in chemistry, ten credits in physics, and eight credits in mathematics are required.

Admission to major standing requires fifteen credits in biology plus eight credits in any combination of the required courses in mathematics, physics and chemistry.

*Requirements for the Secondary Teaching Major in Biology*

Forty credits in biology are required. The group minor requirement is satisfied by a total of 24 credits in the fields of chemistry and physics. Additional requirements include eight credits in mathematics and the following education courses: ED 244-245, ED 428, and ED 455.

Admission to major standing requires fifteen credits in biology; eight credits in any combination of the required courses in mathematics, physics and chemistry; acceptance by the department of biology and concurrent acceptance into the Teacher Education Program.

*Requirements for Secondary Teaching Minor in Biology*

Twenty credits are required.

**LIBERAL ARTS MAJOR IN BIOLOGY**  
(A typical program)

|  |  |  |  |
|--|--|--|--|
| <b>Semester 1</b><br>Freshman Exploratory<br>BIO 111-112<br>MTH 154<br>University Course | <b>Semester 2</b><br>Freshman Exploratory<br>BIO 113-114<br>MTH 155<br>PHY 151 | <b>Semester 3</b><br>BIO 221-222<br>PHY 152<br>PHY 158<br>University Course    | <b>Semester 4</b><br>BIO Lecture & Lab<br>CHM 114-117<br>Foreign Language*                   |
| <b>Semester 5</b><br>BIO Lecture & Lab<br>CHM 115-118<br>Foreign Language                | <b>Semester 6</b><br>BIO Lecture & Lab<br>CHM 234-237<br>Elective              | <b>Semester 7</b><br>BIO Lecture & Lab<br>CHM 235-238 <sup>1</sup><br>Elective | <b>Semester 8</b><br>BIO Lecture & Lab<br>Senior Colloquium<br>University Course<br>Elective |

\*German, French, or Russian (other languages may be substituted with permission of the Department of Biology)

<sup>1</sup>Substitution possible with permission of the Department of Biology.

**SECONDARY TEACHING MAJOR IN BIOLOGY**  
**WITH A GROUP MINOR IN CHEMISTRY AND PHYSICS**  
(A typical program)

|  |  |  |   |
|--|--|--|---|
| <b>Semester 1</b><br>Freshman Exploratory<br>BIO 111-112<br>MTH 154<br>University Course | <b>Semester 2</b><br>Freshman Exploratory<br>BIO 113-114<br>MTH 155<br>PHY 151 | <b>Semester 3</b><br>BIO 221-222<br>PHY 152<br>PHY 158<br>ED 244                 | <b>Semester 4</b><br>BIO Lecture & Lab<br>CHM 114-117<br>ED 245<br>Elective |
| <b>Semester 5</b><br>BIO Lecture & Lab<br>CHM 115<br>Foreign Language*<br>Elective       | <b>Semester 6</b><br>BIO Lecture & Lab<br>CHM 234-237<br>Foreign Language      | <b>Semester 7</b><br>BIO Lecture & Lab<br>BIO Lecture & Lab<br>Senior Colloquium | <b>Semester 8</b><br>ED 428<br>ED 455                                       |

\*German, French, or Russian (other languages may be substituted with permission of the Department of Biology)

The following courses are open to all students, and are ordinarily not counted toward the biology major requirements. (They may be used to fulfill the science U.C. requirements for non-science majors.)

**BIO 104 Biology of the Human**

The biology of man. Cells, tissues, organs, conduction, contraction, circulation of blood and lymph, breathing, digestion, and excretion will be discussed.

**BIO 105 Biology of the Human**

Integration and correlation: the central nervous system, the endocrine system, and reproduction will be discussed.  
Prerequisite: BIO 104 or permission of instructor.

**BIO 108 Bio-engineering**

Selected topics to introduce students of engineering to biological systems. Communication, movement, circulation, excretion, and problems of abnormal environment will be discussed.

The following courses are designed particularly for the biology major, and other majors in the sciences.

**BIO 111 Biology**

The structure and function of living matter, its organization into cells, tissues, and organs of both animal and plant forms. The physical and chemical basis of movement, nutrition, reproduction, development, inheritance, and evolution. The principles governing animal and plant populations, species, and higher taxonomic groups and biota. Basic principles will be emphasized.

**BIO 112 (formerly 117) Biology Laboratory (1 credit)**

To accompany BIO 111.

**BIO 113 (formerly 112) Biology**

Continuation of 111.

**BIO 114 (formerly 118) Biology Laboratory (1 credit)**

To accompany BIO 113.

**BIO 221 Anatomy and Physiology**

Detailed study of vertebrate anatomy and physiology through an intensive study of selected vertebrate types.  
Prerequisite: BIO 113.

**BIO 222 (formerly 227) Anatomy and Physiology Laboratory (1 credit)**

To accompany BIO 221.

**BIO 223 (formerly 222) Histology**

The microscopic anatomy and histochemistry of vertebrate tissues and organs, in relation to tissue function.

Prerequisite: BIO 113.

**BIO 224 (formerly 228) Histology Laboratory (1 credit)**

To accompany BIO 223.

**BIO 231 Microbiology**

A discussion of the classification, morphology and physiology of microorganisms.

Prerequisite: BIO 113.

**BIO 232 Microbiology Laboratory (1 credit)**

To accompany BIO 231.

**BIO 241 Plant Morphology**

Structure, reproductive mechanisms and evolutionary relationships of the plant groups. Ultrastructure of cells and their walls. Preparation of plant materials for microscopic examination. Cytochemistry and histogenesis of selected specimens.

Prerequisite: BIO 113.

**BIO 242 Plant Morphology Laboratory (1 credit)**

To accompany BIO 241.

**BIO 243 Plant Physiology**

Mineral nutrition, absorption and translocation, metabolism, hormonal control, dormancy, growth and reproduction, and physiological responses to the environment.

Prerequisite: BIO 241.

**BIO 244 Plant Physiology Laboratory (1 credit)**

To accompany BIO 243.

**BIO 301 Ecology**

The relationships of organisms to one another and to their environment.

Prerequisite: BIO 113.

**BIO 302 Ecology Laboratory (1 credit)**

To accompany BIO 301.

**BIO 323 Developmental Biology**

The principles of development. Modern concepts of early differentiation and development of organ systems. The control of growth and regeneration.

Prerequisite: BIO 223.

**BIO 324 (formerly 327) Developmental Biology Laboratory (1 credit)**

To accompany BIO 323.

**BIO 341 (formerly 342) Genetics**

The physical and chemical basis of inheritance. Selected topics in human genetics, microbial genetics, biochemical genetics, and cytogenetics.

Prerequisite: BIO 113.

**BIO 342 (formerly 348) Genetics Laboratory**

To accompany BIO 341.

**BIO 403 Protozoology**

Recognition, morphology, reproduction and physiology of the more important taxonomic groups of the Protozoa.

**BIO 404 Protozoology Laboratory (1 credit)**

To accompany BIO 403.

**BIO 405 Special Topics (2, 3, or 4 credits)**

Prerequisite: Permission of instructor.

**BIO 407 Cellular Biochemistry**

An integrated discussion of the principles of biochemistry in relation to cell structure and function. The following topics will be considered: composition and properties of proteins, carbohydrates and lipids; isolation of subcellular organelles and molecular constituents; enzyme chemistry; intermediary metabolism; bio-energetics; biochemical characteristics and physiological roles of subcellular organelles; photosynthesis; control of cellular metabolism; permeability and active transport; muscle contraction and cell division.

Prerequisites: BIO 113, CHEM 234, PHY 152; CHEM 244 desirable.

**BIO 408 Cellular Biochemistry Laboratory (1 credit)**

To accompany BIO 403.

An introduction to modern research procedures in biochemistry and cellular physiology. The laboratory work will

include: spectrophotometric analysis of biological compounds; chromatographic and electrophoretic techniques; enzyme kinetics; isolation and characterization of subcellular organelles; cellular permeability; individual research projects.

**BIO 409 Cellular Biochemistry**

Continuation of 407.

**BIO 410 Cellular Biochemistry Laboratory (1 credit)**

To accompany BIO 409.

**BIO 415 Differentiation**

A consideration of the theories relating to the control of differentiation and development.

Prerequisite: BIO 323.

**BIO 425 Biophysics**

Physical aspects of living systems. Conduction, transmission, contraction, circulation, respiration, excretion, and cell division will be discussed.

**BIO 426 Biophysics Laboratory (1 credit)**

To accompany BIO 425.

**BIO 435 Biochemical and Biophysical Genetics (4 credits)**

An integrated discussion of the concepts of biochemical genetics derived from microbial systems, and their application to the problems of development in multicellular organisms.

Prerequisites: BIO 323, BIO 324, and CHEM 234.

**BIO 436 Biochemical and Biophysical Genetics Laboratory (1 credit)**

To accompany BIO 435.

**BIO 437 Virology**

Prerequisite: BIO 231.

**BIO 438 Virology Laboratory (1 each)**

To accompany BIO 437.

**BIO 441 Microbial Genetics**

A discussion of the genetics of microbial systems, including molds, bacteria, protozoa and viruses.

Prerequisites: BIO 231 and BIO 341.

**BIO 442 Microbial Genetics Laboratory (1 credit)**

To accompany BIO 441.

**BIO 445 Ultrastructure**

A consideration of the fine structure of cells and cell products as revealed by electron microscopy and other procedures.

Prerequisite: BIO 223.

**BIO 446 Ultrastructure Laboratory (1 credit)**

To accompany BIO 445.

**BIO 455 Seminar**

Discussion of recent publications in the biological sciences.

**BIO 463 Cell Biology**

Prerequisites: BIO 223 and permission of instructor.

**BIO 464 (formerly 467) Cell Biology Laboratory (1 credit)**

To accompany BIO 463.

**BIO 471 Physiology**

Prerequisites: BIO 223 and permission of instructor.

**BIO 472 (formerly 477) Physiology Laboratory (1 credit)**

To accompany BIO 471.

**BIO 490 Individual Laboratory Work (2, 3 or 4 credits)**

Prerequisite: Permission of instructor.

## DEPARTMENT OF CHEMISTRY

Associate Professors:

Paul Tombouliau, Chairman

Gottfried Brieger

Frederick Obear

Assistant Professors:

James Davis

Lawrence Friedman

Steven Miller

Joel Russell

The courses in chemistry are designed for several types of students: those desiring to pursue graduate or professional work in chemistry, those preparing to teach chemistry in high school, and those in other sciences and mathematics who need a background in chemistry. The undergraduate curriculum for liberal arts majors is a highly prescriptive and specialized professional program intended for those students planning graduate studies, or work in research and analytical laboratories. The under-

graduate curriculum for secondary education majors is very similar to the liberal arts major, except that the required education courses are included so that a graduate of this program may be sponsored for certification. It should be noted that graduate work is necessary for university teaching positions and for the more responsible and executive positions in the chemical industry.

#### *Requirements for the Liberal Arts Major in Chemistry*

Forty-eight credits in chemistry are required. Of these, thirty-one credits must be in lecture courses, including CHM 235, 245, 324, 412. At least thirteen credits must be chosen in laboratory courses, including CHM 238, 248, 328. Twenty-six credits in mathematics and physics are required, including PHY 158, PHY 371, and MTH 258 or 259. Admission to major standing requires a total of thirty-two credits in chemistry, physics, and mathematics.

#### *Requirements for the Secondary Teaching Major in Chemistry*

Thirty-two credits in chemistry are required, including CHM 234, 244, 324, and 412. Eight credits in mathematics are required, including MTH 155. Ten credits in physics are required. To complete the group minor in mathematics and physics, an additional eight or ten credits in mathematics or physics are recommended. Other minors may be arranged by the Department in consultation with the student. The following education courses are required: ED 244-245, 428, 455. Admission to major standing requires a total of twenty-eight credits in chemistry, physics, and mathematics.

#### *Requirements for a Teaching Minor*

Twenty credits in chemistry courses are required.

#### **CHM 114 Chemistry**

An introduction to the study of gases, liquids, solids, atomic and molecular structure, stoichiometry, equilibria, thermodynamics, and nuclear chemistry.

Prerequisite: Three years of high school mathematics. Concurrent registration in MTH 154 is desirable.

Offered in fall semester only.



**CHM 115 Chemistry (3 credits)**

Continuation of CHM 114.

Prerequisite: CHM 114.

Offered in the winter semester only.

**CHM 117 Chemistry Laboratory (1 credit)**

Experiments illustrating principles and techniques of quantitative and qualitative chemistry.

Prerequisite or corequisite: CHM 114.

**CHM 118 Chemistry Laboratory (2 credits)**

Continuation of CHM 117 with emphasis on instrumental methods.

Prerequisite: CHM 114.

**CHM 234-235 Organic Chemistry**

Functional groups, reaction mechanisms, stereochemistry, rearrangements, polymers, and natural products.

Prerequisites: CHM 115, and CHM 117 or CHM 118.

**CHM 237-238 Organic Chemistry Laboratory  
(2 credits each)**

Qualitative analysis and synthetic techniques of modern organic chemistry.

Prerequisite or corequisite: CHM 234-235.

**CHM 244-245 Physical Chemistry**

Physical interpretation of chemical phenomena thermodynamics, phase transitions, reaction kinetics, molecular structure, spectroscopy, and kinetic theory of gases.

Prerequisites: CHM 115, MTH 155, PHY 152; PHY 371 is a prerequisite for CHM 245.

**CHM 248 Physical Chemistry Laboratory (2 credits)**

Laboratory coordinated with CHM 245.

Prerequisite or corequisite: CHM 245.

**CHM 324 Analytical Chemistry (2 credits)**

Advanced quantitative techniques and measurements; theory and application of modern instrumentation to chemical problems.

Prerequisites or corequisites: CHM 237, CHM 245, PHY 152.

**CHM 328 Analytical Chemistry Laboratory (2 credits)**

Laboratory coordinated with CHM 324.

Corequisite: CHM 324.

**CHM 351 Biochemistry (3 credits)**

Proteins, enzymes, nucleic acids, cellular nutrition, energetics of biological reactions, photosynthesis, biological oxidations, metabolism of carbohydrates, lipids, and nitrogen compounds.  
Prerequisite: CHM 234

**CHM 357 Biochemistry Laboratory (1 credit)**

Prerequisite or corequisite: CHM 351.

**CHM 361 Radiochemistry (3 credits)**

Nuclear structure and stability, nuclear reactions, decay schemes, dosimetry, radioisotope production, tracer applications, radioisotope methodology; includes laboratory.  
Prerequisite: Permission of the department.

**CHM 387 Advanced Preparations (2 credits)**

Specialized laboratory work in selected areas emphasizing advanced techniques.  
Prerequisite: Permission of the department

**CHM 400 Seminar (1 credit)**

Regularly scheduled discussions of all fields of current interest in chemistry; presented by students, faculty, and visitors.

**CHM 405 Selected Topics (2, 4, or 6 credits)**

Advanced study in special areas: seminars, laboratory work, and readings.  
Prerequisite: Permission of the department.

**CHM 412 Inorganic Chemistry**

Development of atomic theory, chemical periodicity, coordination compounds, and non-aqueous systems.  
Prerequisite or corequisite: CHM 245.

**CHM 417 Inorganic Chemistry Laboratory (1 credit)**

Advanced preparatory techniques; methods of purification and analysis.  
Prerequisite or corequisite: CHM 412.

**CHM 490 Research (2, 4, or 6 credits)**

Laboratory and library practice in research.  
Prerequisite: Permission of the department.

**CHM 513 Coordination Chemistry**

A study of the transition metals in complex inorganic compounds with particular emphasis on bonding and structure as

derived from spectral and magnetic properties. Inorganic reaction mechanisms and stereochemistry are also discussed.  
Prerequisite: CHM 412, or equivalent.

**CHM 515 Inorganic Reaction and Structure**

An introduction to the modern theory of the chemical bond and to the principles of structural inorganic chemistry followed by a study of the families of elements and classes of compounds from the standpoint of molecular structure and the rates and equilibria involved in chemical reactions.

Prerequisite: CHM 412, or equivalent.

**CHM 531 Organic Synthesis**

Theory and practice of synthetic and degradative methods of organic chemistry. Applications of modern techniques will be emphasized.

Prerequisite: CHM 235, or equivalent.

**CHM 533 Organic Mechanisms**

Application of modern electronic theory to the structures and reactions of organic compounds. Preparative reactions from the recent chemical literature will be emphasized.

Prerequisite: CHM 235, or equivalent.

**CHM 534 Natural Products**

The application of modern synthetic and analytical methods in selected areas of natural product chemistry.

Prerequisite: CHM 235, or equivalent.

**CHM 535 Analytical Organic Chemistry**

Detailed treatment of instrumental and physical methods as applied to the structural determination of organic compounds.

Prerequisite: CHM 238, CHM 328; or equivalent.

**CHM 543 Statistical Thermodynamics**

The statistical basis of thermodynamics; ensembles, partition functions, and distribution functions; classical and quantum statistical mechanics; applications to simple physical and chemical systems.

Prerequisites: CHM 245, PHY 152, MTH 258; or equivalent.

**CHM 544 Quantum Chemistry**

This course will begin with an introduction to the fundamental mathematics of quantum mechanics with applications

to problems of atomic structure and spectra, followed by some simple problems in covalent bonding, molecular orbital calculations and interpretation of molecular electronic spectra.

Prerequisites: CHM 245, PHY 152, and MTH 258, or equivalent.

### **CHM 545 Quantum Chemistry**

The quantum-mechanics of molecular energies and structure will be presented, and the interpretation of infra-red, Raman, nuclear magnetic resonance, electron spin resonance and other spectra will be discussed. Applications of spectroscopy to problems of molecular structure, intermolecular forces, and chemical reactions may be studied.

Prerequisites: CHM 544, CHM 543 desirable.

### **CHM 551 Genetic Biochemistry**

The biochemical basis of heredity; structure and genetic functions of DNA, RNA, and proteins; genetic control of cell biochemistry; biochemistry of viruses and bacteria.

Prerequisites: CHM 234, 244, or equivalent. Courses in biology are desirable.

### **CHM 690 Research (2, 4, 6, 8, 10, or 12 credits)**

Directed research and study carried out under the supervision of a faculty member.

Prerequisite: Permission of the department.

## **DEPARTMENT OF CLASSICAL LANGUAGES AND LITERATURES**

Associate Professor:

Howard Clarke, Chairman

Lecturers:

Norman G. McKendrick

Edmund F. Miller

### *Requirements for the Liberal Arts Major in Classical Languages*

Nine courses, in addition to four courses in Latin (LTN 114-115, LTN 214-215) used to satisfy the University Course language requirements. A typical classics major would include: three courses in Latin (LTN 320, LTN 414-415); four courses in Greek (GRK 114-115, GRK 214-215); two courses in

classics. Those planning graduate work in classics should complete in addition to the above nine courses: one in Latin literature; two courses in Greek; two courses in classics. Admission to major standing requires two Freshman Exploratories, and four courses in Latin.

*Requirements for the Liberal Arts Major in Latin*

Nine courses in Latin and classics, in addition to the courses fulfilling the University Course language requirement. A typical program would include: five courses in LTN 320; two courses in LTN 414-415; two courses in classics. Admission to major standing requires two Freshman Exploratories, and four courses in Latin.

*Requirements for the Secondary Teaching Major in Latin*

Eight courses in Latin and classics, in addition to the courses fulfilling the University Course language requirement. A typical program includes: four courses in LTN 320; two courses in LTN 414-415; two courses in classics. The following education courses are also required: ED 245-246, ED 428, 455. Admission to major standing requires two Freshman Exploratories, four courses in Latin, acceptance by the Department of Classical Languages and Literatures, and concurrent acceptance into the Teacher Education Program.

**CLS 111, 112 Classical Literature in Translation**

A series devoted to the major writers of Greece and Rome. Either semester may be elected independently.  
Prerequisites: Two Freshman Exploratories

**CLS 117 The Classical Tradition**

A study of the classical influence on Western culture. Some attention is given to the visual arts, but the emphasis is on classical traditions in European literature.  
Prerequisites: Two Freshman Exploratories

**CLS 301, 302 Classical Civilization**

A two-semester survey of the history and culture of Greece and Rome. Either semester may be elected independently.

**CLS 303, 304 Classical Literature in Translation**

A two-semester survey of the major writers of Greece and Rome. Either semester may be elected independently.

**CLS 312 Classical Mythology**

The principal Greek and Roman myths and their uses in classical and postclassical art and literature.

**CLS 317 The Classical Tradition**

A study of the classical influence on Western culture. While some attention is given to the visual arts, the main emphasis is on the classical traditions in western literature.

**CLS 324 The Ancient Historians**

A survey of the aims, methods, achievements and limitations of ancient historiography through a reading, in translation, of the most prominent ancient historians.

**GRK 114-115 Elementary Greek**

Classical Greek. Elements of grammar and some connected reading will be studied. May be conducted as a tutorial.

**GRK 214-215 Intermediate Greek**

Review of grammar, exercise in prose composition, and the reading of simple literary works, ordinarily Plato's *Apology*, selections from Herodotus, and selected books of Homer's *Iliad*. May be conducted as a tutorial.

Prerequisite: GRK 115

**GRK 320 Selections from Greek Literature**

Greek drama and history. Selected dramas of Aeschylus, Sophocles, Euripides, and Aristophanes, and selections from Herodotus and Thucydides. May be conducted as a tutorial. May be taken for one or more semesters.

Prerequisite: GRK 215

**GRK 414-415 Survey of Classical Greek Literature**

Readings in classical Greek literature from Homer to the Hellenistic Age. Selections will be chosen to illustrate the historical development of Greek literature. May be conducted as a tutorial.

Prerequisite: GRK 320

**LTN 114-115 Elementary Latin**

The first semester is devoted to elements of grammar; the second semester to a review of grammar, exercises in composition, and the reading of simple selections from Latin prose and poetry.

**LTN 214-215 Intermediate Latin**

The first semester is devoted to selections from Cicero, Catullus, and Horace; the second semester to the reading of extensive selections from Virgil's *Aeneid*.

**LTN 320 Selections from Latin Literature**

A detailed study of selected works by major Latin writers. May be conducted as a tutorial. May be taken for one or more semesters.

Prerequisite: LTN 215

**LTN 414-415 Survey of Classical Latin Literature**

Readings will be selected from representative writers of the Republic and Empire and will be chosen to illustrate the historical development of Latin literature.

Prerequisite: LTN 320

**DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION**

Professor:

Theodore O. Yntema (Visiting)

Associate Professor:

Robbin R. Hough, Chairman

Siddheshwar Mittra

Norton C. Seeber

Assistant Professor:

Eleutherios N. Botsas

Instructor:

John Hurd II

Edward Starr

Lecturer:

William J. Leininger

The curriculum in economics emphasizes concepts and tools of analysis and their application to problems of policy. By learning ways of thinking in economics, students gain insights into how to approach economic questions in applied areas. Students are prepared for careers in industry and government or for graduate study of economics, law, or business.

*Requirements for the Major in Economics*

The major in economics requires UC 056, EB 216, 217, 480 and three other courses in the department, one of which must

have as prerequisite EB 216 and another which requires EB 217 as prerequisite. In addition, all majors must complete two semesters of work in another social science as well as MTH 125 and MTH 131, with the latter two to be taken in the first year. (MTH 154 may be normally substituted for MTH 131.) Admission to major standing requires two Freshman Exploratories, plus EB 216 and EB 217.

### **BUSINESS ADMINISTRATION**

The program in business emphasizes a general education and the development of analytical approaches which will enable students to devise new answers to the increasingly complex and changing problems faced by managers and technical experts in the business community. Because education for management is a continuing process throughout one's business career, the program seeks to give students the kind of training that will provide the foundations for continuing self-education, allowing for adaptability within the rapidly developing modern business environment. Thus, the program emphasizes basic principles of economics, business analysis, and practice, rather than specific techniques which will be obsolete in a short time. The business major obtains the necessary background for entering important industry training programs or graduate schools of business, as well as for first entry into many jobs in business, government, and administration.

### **ACCOUNTING AND MARKETING**

For students desiring special preparation in the fields of accounting and marketing, the EB 201-401 and EB 202-402 sequences provide the opportunity for the development of these specialized skills. The sequence is designed to encourage independent thought and stimulate the application of the tools of economic analysis to problems in these specialties.

#### *Requirements for the Major in Business Administration*

The requirements are UC 056 and ten other departmental courses. Of the ten, two are in economics (EB 216, 217); eight are the functional areas, including EB 301, EB 435, and EB 442.

In related social science areas, four courses are required: two courses in psychology (UC 054, PSY 261) and two courses in either political science or sociology. The mathematics requirement is three courses: MTH 125, MTH 131, to be taken in the



first two semesters, and either MTH 321 or MTH 322. (MTH 154 may be substituted for MTH 131.) Admission to major standing requires two Freshman Exploratories, plus EB 216 and EB 217.

**EB 105 Introduction to Computer Programming**

**EB 108 Introduction to Processing Languages**

**EB 201 Elements of Accounting**

A programmed introduction to the elementary concepts of accounting.

Prerequisite: UC 056 or permission of the instructor

**EB 202 Elements of Marketing**

A programmed introduction to the elementary concepts of marketing.

Prerequisites: EB 216 and EB 217.

**EB 216 Micro-Economic Analysis**

Analysis of pricing, resource allocation, and income distribution at the level of the individual firm, industry, and household consuming unit.

Prerequisites: UC 056 and MTH 131.

**EB 217 Macro-Economic Analysis**

Study of factors determining the level of national income and employment, price levels, and inflation.

Prerequisites: UC 056 and MTH 125.

**EB 223 The Indian Economy**

The economic problems of developing nations in the context of the Indian economy.

Prerequisite: Permission of the instructor.

**EB 301 Accounting and Statistical Techniques**

Accounting systems for individual firms and the national economy. Use of statistical techniques to solve problems faced by firms and industries. Offered in fall semester.

Prerequisites: UC 056 and permission of the instructor.

**EB 303 Economic Growth, Fluctuations, and Forecasting**

Analysis of the forces underlying economic growth in advanced nations. Study of business cycle conditions and various theories of factors affecting business fluctuations. Introduction to economic forecasting techniques for the individual firm and for the national economy.

**EB 318 Social Organization and Economic Change**

An application of the tools of economic analysis to those conflicts between actors and environments which have helped shape the modern economy. This course is not open to economics majors.

**EB 322 Capital Markets**

Corporate and public finance, and the operation of major financial institutions and markets. Offered in fall semester.  
Prerequisite: EB 217

**EB 323 International Trade and Finance**

Principles of international trade and finance, postwar international economic problems and policies. Offered in winter semester.

Prerequisite: EB 216

**EB 324 Business in the American Economy**

Public attitudes toward and government regulation of business; social and legal responsibilities of business. Offered in winter semester.

Prerequisite: EB 216

**EB 325 Industrial Organization**

Resource patterns, production processes (including technology and economics of scale), and managerial organization as related to the size of firms and the location of industries. Offered in fall semester.

Prerequisite: EB 216

**EB 326 Economic Development**

Application of the tools of economic analysis to the problems of underdeveloped countries. Offered in winter semester.

Prerequisite: UC 056 or permission of the instructor.

**EB 333 Labor-Management Relations**

Analysis of management-employee relations in modern industry; public policy in labor-management areas. Offered in fall semester.

Prerequisites: UC 056 and permission of the instructor.

**EB 334 Business Enterprise**

Origin and evolution of contemporary business institutions; social, philosophic, legal, and economic foundations of the modern corporation. Offered in winter semester.

Prerequisites: UC 056 and permission of the instructor.

**EB 342 Simulation in Economics**

An introduction to the use of simulation techniques.

Prerequisites: Major Standing and permission of the instructor.

**EB 401 Readings in Accounting**

Directed readings in accounting systems.

Prerequisites: Major Standing and EB 201.

**EB 402 Readings in Marketing**

Directed readings in the classic literature of marketing.

Prerequisites: Major Standing and EB 202.

**EB 405 Econometrics**

An introduction to the testing of economic models, expressed mathematically, by statistical methods.

Prerequisites: EB 216, EB 217, EB 301, and permission of the department.

**EB 418 Selected Topics in Economic Policy**

**EB 435 Business Policies**

Financial, economic, and other management tools used to analyze business case studies. Offered in winter semester.

Prerequisites: EB 216 and EB 217.

**EB 442 Operations Research**

Operations research techniques are used in exploring problems selected from the several functional areas of business. Offered in winter semester.

Prerequisites: EB 216 and EB 217.

**EB 480 Seminar**

Theses, individual topics, and readings.

Prerequisite: Permission of the Department.

**EB 490 Independent Research**

Prerequisite: Permission of the Department.

## DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

### Professors:

Robert Hoopes, Chairman  
Thomas Fitzsimmons  
Mrs. Gertrude M. White  
William Schwab

### Associate Professors:

John G. Blair (on leave 1967-68)  
Maurice F. Brown  
Joseph DeMent

### Assistant Professors:

Peter G. Evarts  
Richard Lyons  
Mrs. Marilyn L. Williamson

### Instructors:

Louis Buchanan (on leave 1967-68)  
Frederick Hughes  
David W. Mascitelli

### Special Instructors:

Mrs. Phoebe Chao  
Mrs. Joan G. Rosen

Purpose of English studies: to improve upon silence.

The English major is in profile the same for Liberal Arts and Teacher Education concentrations. Requirements have been cast so as to provide at once a solid base in the discipline of letters and an opportunity for each student to shape certain specifics within the course of study as they seem to him best fitted to his abilities and ambitions. Students planning to attend graduate school should select courses on a basis here and there different from that of those who look upon the B.A. as a terminal degree; students completing the Secondary School Teaching Concentration will want a course of study in places different from that of the straight Liberal Arts student. Consequently, it is *extremely important* that all students majoring in English take the initiative and actively seek guidance in the exercise of choices open to them. Unless specifically noted, all one-semester courses listed below earn four credits.

### *Departmental Prerequisites*

For all courses numbered in 100's: none

For all courses numbered in 200's: 2 Freshman Exploratories (or the equivalent)

For all courses numbered in 300's: 141, 142

For all courses numbered in 400's: Major standing in English.

These prerequisites may be waived only by permission of the instructor in any given course.

### *Requirements for the Liberal Arts and Secondary Teaching MAJOR in English:*

40 credits in all are required for completion of the MAJOR.

12 units may be elected from all Departmental offerings at the 200 level or above; (the Department will accept up to 4 units of credit in the study of literature in a foreign language, e.g., 271, 272, or other courses not in translation).

28 units must be distributed as follows:

8 units: Major British and American Writers (141, 142). This two-semester sequence is basic to the English major. Normally 142 should follow 141, but a student may take the courses in reverse order or register in both concurrently. Either semester will satisfy the UC Western Literature requirement.

8 units: English Literature (course numbers ending in 51 through 75).

8 units: American Literature (course numbers ending in 16 through 40).

*Four of these 16 units* in English and American Literature must be taken in a single-author course (400 level).

4 units: Language Analysis (course numbers ending in 76 through 83; Secondary Teaching Majors must take ENG 377, Modern English Grammar).

### *Requirements for MAJOR in English with Concentration in Linguistics:*

See the Concentration in Linguistics, page 191.

*Requirements for the Secondary Teaching MINOR in English:*

20 credits in all are required for completion of the MINOR:

4 units may be elected from all Departmental offerings.

16 units must be distributed as follows:

8 units: Both semesters of Major British and American Writers (141, 142), or either semester plus the UC Western Literature course.

4 units: Language Analysis or Writing (ENG 210, 310, 410, or courses ending in 76 through 90, *except* for 376).

4 units: American Literature

**ENG 009 Aids to Expository Writing (0 credit\*)**

A course designed to assist students in developing the basic skills of writing expository prose. Admission is by permission of instructor.

\*Grade of S or U appears on transcript.

**ENG 141, 142 Major British and American Writers**

Reading of the works of a limited number of selected authors. The first semester (141) will move from early to 18th century British literature; the second (142) will focus on later British and American writing.

**ENG 200 Topics in Literature and Language**

Topics and problems selected by the instructor.

**ENG 201-209 Major Literary Forms**

Introductions to the analysis and enjoyment of the following:

ENG 201 Poetry

ENG 202 Epic

ENG 205 Shakespearean Drama

ENG 207 Drama

ENG 208 Biography

ENG 209 Novel

**ENG 210 Fundamentals of Exposition**

Study of the process of expository writing. Literary models form basis for discussion of diction, style, form and purpose. Class and individual criticism of student papers.

**ENG 224 American Writers**

Readings in representative works designed to introduce students to the American literary experience.

**ENG 275 Modern British Writers**

The principal works, themes, and techniques of major twentieth-century British writers. Special attention will be given to the works of W. B. Yeats, James Joyce, T. S. Eliot, among others.

**ENG 276 The Nature of Language**

A general introduction to linguistics and semantics; the description, comparison, and history of languages, the grammar of English, problems of usage, dialect geography, differences between speech and writing, stylistic techniques of language learning and teaching, and the relation of language to the larger culture.

**ENG 300 Special Topics in Literature and Language**

Special topics and problems selected by the instructor.

**ENG 310 Advanced Exposition**

Practice in non-fictional writing, primarily the critical essay. Close criticism of students' writing, individually and in class. Continuous discussion of the meanings of style. No news or editorial writing. Enrollment limited to fifteen. Students desiring to enroll should submit samples of their work during the semester preceding that in which the course is given.

**ENG 317 Early American Literature**

Studies in American literature before 1820. At the discretion of the instructor, the course may concentrate on type or movement within the period.

**ENG 322 Nineteenth Century American Fiction**

Selected readings in American fiction from Washington Irving to Henry James.

**ENG 324 American Romanticism**

A study of various manifestations of the romantic movement in America with readings drawn primarily from the poetry, essays, and fiction of the pre-Civil War period.

**ENG 332 Modern American Fiction**

Readings in American fiction from Henry James to World War II.

**ENG 333 Modern American Poetry**

Studies in the poetry of the first half of the twentieth century.

**ENG 340 American Writing Now**

American fiction, poetry and drama.

**ENG 353 Old English Literature**

A study of the literature of England from the beginning to Norman Conquest. Primary focus on the Old English lyric and epic.

**ENG 354 Medieval Literature**

Dominant forms and themes from the Anglo-Saxons to about 1550, excluding Chaucer. Ballad and drama, chivalric romance, the code of courtly love, the sacred and the secular in medieval civilization. Representative works and authors include *Gawain and the Green Knight*, *Piers Plowman*, Malory, Lydgate, Skelton.

**ENG 355 Literature of the English Renaissance**

Selected poetry and prose, non-dramatic and dramatic, exclusive of Shakespeare; the Renaissance (roughly 1550-1660) as a historical and cultural phenomenon.

**ENG 360 Metaphysical Poetry**

Study of the poetry of Donne, Herbert, Crashaw, Vaughan, and Traherne.

**ENG 368 Eighteenth Century Literature**

The chief works of Swift, Pope, and Johnson, together with whatever coincides with the particular emphasis of the course in a given year. Classicism, pre-Romanticism, Rise of the Novel, Form and Feeling, and Primitivism are examples of various topics around which readings may cluster.

**ENG 370 The Romantic Period**

Poets of the Romantic Period — Wordsworth, Coleridge, Scott, Byron, Shelley, Keats — with some attention to the pre-Romantics, Burns and Blake. Their poetry and its relation to the intellectual currents of the time.

**ENG 371 Victorian Literature**

A selection of fiction, prose, and poetry of the middle and late nineteenth century. Representative authors include Dickens, Thackeray, Meredith, Tennyson, Browning, and Arnold.



**ENG 375 Modern Literature**

Modern British, American, and/or Continental literature, with concentration on the work of a small number of writers.

**ENG 376 History of the English Language**

A detailed survey of the English language from its beginnings to modern times.

**ENG 377 Modern English Grammar**

A survey of English structure, especially of syntax, with descriptions based on the work of important contemporary scholars.

**ENG 390 Literary Criticism**

Problems in the analysis of literature and practical difficulties in evaluating individual works. Readings in important modern and earlier schools of criticism, together with relevant works of literature. Enrollment limited.

**ENG 400 Advanced Topics in Literature and Language**

Advanced topics and problems selected by the instructor.

**ENG 410 Imaginative Writing**

Designed to provide potential writers of fiction, poetry, and drama with an opportunity to develop technical proficiency and receive criticism of work in progress. Students desiring to enroll should submit samples of their work during the semester preceding that in which the course is given. Enrollment limited.

**ENG 425 Melville**

An intensive study of the fiction and poetry of Herman Melville, including attention to various critical approaches.

**ENG 430 Henry James**

The novels, shorter fiction and literary criticism of Henry James. The course will include work in biographical and critical approaches.

**ENG 451 Chaucer**

The major works, with emphasis on *The Canterbury Tales* and *Troilus and Criseyde*.

**ENG 460 Shakespeare**

Reading and discussion of ten plays and the sonnets; course designed for secondary teaching majors.

**ENG 465 Shakespeare**

Intensive analysis of four or five of the plays, textual and dramatic criticism, sources, and Shakespeare in the theater.

**ENG 466 Milton**

Selected early poems, including "On the Morning of Christ's Nativity," "Comus," "Lycidas"; some of the sonnets and prose treatises; *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*.

**ENG 470 W. B. Yeats**

Intensive reading of the poems, plays, essays and autobiography of William Butler Yeats. Discussion.

**ENG 495 Seminar**

Intensive reading and research designed particularly for English majors. Topic at the pleasure of the instructor. Enrollment limited.

**ENG 497 Apprentice College Teaching (2 or 4 units)**

An elective course open to any well-qualified upperclassman who wins consent of a faculty member in his major field to assist in presenting a regular college course to underclassmen. The apprentice should be capable of assuming *limited* classroom responsibility. Open to teaching or liberal arts majors with the support of the department. Does not satisfy departmental major requirements.

**ENG 499 Independent Reading**

Directed reading and research designed exclusively for senior English majors.

**ENG 500 Advanced Topics in Literature and Language**

Advanced topics and problems selected by the instructor.

**ENG 507 Contemporary Drama**

Representative plays of major contemporary writers from Ibsen to Albee.

**ENG 510 Literature and Composition**

**ENG 512 Myth and Literature**

The principal Greek and Roman Myths and their uses in classical and postclassical art and literature.

**ENG 525 Melville**

An intensive study of the works of Herman Melville with primary emphasis on his prose fiction, especially *Moby Dick*. The course will involve close scrutiny of critical clichés about Melville.

**ENG 530 Henry James**

**ENG 540 American Writing Now**

**ENG 551 Chaucer**

**ENG 555 Literature of the English Renaissance**

**ENG 560 Metaphysical Poetry**

**ENG 565 Shakespeare**

**ENG 566 Milton**

**ENG 575 Modern Literature**

**ENG 577 Modern English Grammar**

**ENG 583 Transformational Grammar**

The goals of generative-transformational theory; detailed analysis of the generative-transformational model; pedagogical application.

**ENG 590 Literary Criticism**

**ENG 621 Seminar: American Transcendentalists**

**ENG 635 Seminar: The American Novel**

**ENG 657 Seminar: English Drama to 1590**

**ENG 660 Seminar: Humanism and Science, 1600-1660**

**ENG 665 Eighteenth-Century Studies**

**ENG 670 Seminar: The nineteenth-Century English Novel**

**ENG 680 Independent Reading I**

**ENG 681 Independent Reading II**

**ENG 690 The Master's Project**



Vandenberg Hall

## DEPARTMENT OF HISTORY

### Professors:

Richard M. Brace, Chairman  
Charles W. Akers  
George T. Matthews  
Clyde B. Sargent

### Associate Professors:

Melvin Chernov  
Robert C. Howes  
W. Patrick Strauss

### Assistant Professors:

John Barnard  
S. Bernard Thomas  
Anne H. Tripp  
Richard P. Tucker

### Instructor:

Gerald C. Heberle  
Leonardas Gerulaitis

The Department of History consists of professional scholars engaged in the study of American, British, European, Russian, Chinese and Indian history and particularly of the intellectual, socio-economic, and institutional aspects of history. Such professional work combines factual knowledge with creative speculation and interpretation, and proficiency in it encompasses meticulous use of documentary evidence, disciplined imagination, and the ability to write lucid, persuasive prose.

The study of history at the undergraduate level has traditionally been considered one of the major paths to informed, independent, and effective citizenship. It leads most directly into secondary school and college teaching and other forms of professional historical scholarship. Moreover, its emphasis on broad knowledge, critical judgment, and precise writing provides excellent pre-professional preparation for many other careers in government service, the law, the ministry, journalism, library and museum service, and business. Students who are interested in professional careers as historians should keep in mind that in graduate work they will ordinarily be expected to demonstrate competence in two modern foreign languages.

### *Requirements for the Liberal Arts Major in History*

Admission to major standing requires successful completion of two Freshman Exploratories, and any two history courses and four semesters of foreign language study. Completing the major requires eight departmental courses exclusive of University Courses. The eight courses must include HST 141-142 and one 400-level course. A normal program will involve work in more than one field of history.

### *Requirements for the Secondary Education Teaching Major in History*

Admission to major standing requires successful completion of two Freshman Exploratories and any two history courses, two semesters of foreign language study and acceptance by the Department of History, and concurrent acceptance into the Teacher Education Program. Completing the major requires eight departmental courses exclusive of University Courses. The eight courses must include HST 141-142, HST 214-215 and one 400-level history course. The following education courses are also required: ED 244-245, ED 428, ED 455. Students with this major who wish to elect a social studies minor must confer with the Placement Office and/or the Office of the School of Education before planning their program.

### *Requirements for the Secondary Education Teaching Minor in History*

Completing a teaching minor requires sixteen credits in history department courses including HST 214-215, plus four credits drawn from among UC 01B, UC 01E, UC 036, UC 062, UC 066, or a Senior Colloquium in an appropriate area. Social Studies majors who wish to elect this minor must confer with the Placement Office and/or the Office of the School of Education before planning their program.

## **LIBERAL ARTS MAJOR IN HISTORY** **(A Typical Program)**

|   |   |  |  |
|---|---|--|--|
| <b>Semester 1</b><br>Freshman Exploratory<br>HST 141<br>University Course<br>Foreign Language | <b>Semester 2</b><br>Freshman Exploratory<br>HST 142<br>University Course<br>Foreign Language | <b>Semester 3</b><br>University Course<br>University Course<br>HST<br>Foreign Language | <b>Semester 4</b><br>University Course<br>University Course<br>HST<br>Foreign Language |
| <b>Semester 5</b><br>University Course<br>HST<br>Elective<br>Elective                         | <b>Semester 6</b><br>University Course<br>HST<br>Elective<br>Elective                         | <b>Semester 7</b><br>HST (400-Level)<br>Elective<br>Elective<br>Elective               | <b>Semester 8</b><br>Senior Colloquium<br>HST<br>Elective<br>Elective                  |

## SECONDARY TEACHING MAJOR IN HISTORY (A Typical Program)

|  |   |  |  |
|--|---|--|--|
| <b>Semester 1</b><br>*Freshman Exploratory<br>HST 141<br>University Course<br>Foreign Language | <b>Semester 2</b><br>Freshman Exploratory<br>HST 142<br>University Course<br>Foreign Language | <b>Semester 3</b><br>HST 214<br>University Course<br>ED 244<br>University Course | <b>Semester 4</b><br>HST 215<br>University Course<br>ED 245<br>Minor |
| <b>Semester 5</b><br>Minor<br>HST<br>HST<br>University Course                                  | <b>Semester 6</b><br>Minor<br>HST<br>University Course<br>Elective                            | <b>Semester 7</b><br>Senior Colloquium<br>Minor<br>HST (400-Level)<br>Elective   | <b>Semester 8</b><br>ED 428<br>ED 455                                |

\*Freshman Exploratory should be used by English minors as a substitute for a distribution requirement.

Courses numbered 100-299 are introductory survey courses. Courses numbered 300-399 are more advanced courses dealing with more narrowly defined periods or problems; a better historical background and a higher level of performance are expected of the student, who may specifically anticipate more writing and discussion than in the introductory courses. Courses numbered 400-499 are research courses designed for history majors; the student is expected to have completed a total of five or more history courses and to have developed a good background in the particular field of the research course through relevant work at the 100-299 and 300-399 levels.

HST 141-142 and HST 214-215 is offered at least every fall and winter semester, and the Department attempts to schedule other introductory courses at frequent, regular intervals. The Department also attempts to make available every semester at least one course at each of the three levels: introductory, advanced, and research.

### **HST 141, 142 Introduction to European History**

An integrated series of courses offering an introduction to the chief epochs of European history from about A.D. 1500 to the present. Emphasis throughout is upon critical analysis of the basic economic, social, and political context of the successive transformations of Europe from late medieval times to the contemporary scene.

HST 141 (Europe, 1500-1792) studies the emergence of Europe from feudalism into the modern state system, the rise of modern capitalism, and the impact of the new emerging social structure upon intellectual and religious life.

HST 142 (Europe, 1792-present) studies the revolutionary

destruction of the old regimes, the establishment of liberal parliamentary democracies, and the rise of totalitarian movements in the present era of global wars.

Open to freshmen: Either course satisfies Western Instruction Distribution Requirement.

**HST 214, 215 Introduction to American History**

An integrated sequence of courses offering an introduction to American history from colonial times to the present.

HST 214 is a survey of American political, economic, and intellectual history from the colonial period to the post-Civil War period.

Prerequisites: Two Freshman Exploratories.

HST 215 is a survey of modern America: industrial growth, agricultural protest, the experiment with imperialism, domestic reform, and world leadership.

**HST 234, 235 History of England and British Expansion**

An integrated series of courses offering an introduction to English and British history from the Middle Ages to the present.

HST 234 considers the Middle Ages and the rise of parliamentary institutions, the Tudor revolution in government, the Reformation and the rise of Puritanism, the civil wars and the Glorious Revolution, and the culture of the Tudor and Stuart periods.

Prerequisites: Two Freshman Exploratories

HST 235 starts with the Hanoverian monarchs (since 1714), analyzing the arrival of industrial production in England and the effects of this change on society and politics, the age of reform in the nineteenth century, the growth and development of the empire, and Britain's role in the world politics of the twentieth century.

Prerequisites: Two Freshman Exploratories

**HST 251, 252 Introduction to Russian History**

An integrated series of courses offering an introduction to Russian history from earliest times to the present.

HST 251 is a study of the political, social, and intellectual history of the Russian nation from its origins to 1856.

HST 252 is an analysis of the history of the decline of the Russian monarchy and the rise of the Soviet state, 1856 to the present.

Prerequisites: Two Freshman Exploratories



**HST 308 History of Colonial Society, 1607-1750**

The course of European expansion and colonization in the New World, the development of political ideas and institutions in British America, and the economic foundations and social evolution of the thirteen mainland colonies.

Prerequisite: HST 214

**HST 309 The Age of the American Revolution, 1750-1790**

The structure of colonial society, the effects of British policy on American life, the growth of revolutionary movements, the advent of political independence, the consequences of revolution, and the adoption of the 1787 Constitution.

Prerequisite: HST 214

**HST 310 The New Republic and the Age of Jefferson 1790-1825**

The historical development of the new republic and the social, political and philosophical impact of Thomas Jefferson on his America.

Prerequisite: HST 214

**HST 311 The Age of Jackson**

The economic, political and social development in the United States from 1825 to 1861, emphasizing the changing nature of political parties, material and intellectual influences shaping American democracy, westward expansion and sectional conflict, and the origins of the Civil War.

Prerequisite: HST 214

**HST 312 The Civil War and Reconstruction**

Secession, wartime problems of the Union and the Confederacy, principal military campaigns, the Reconstruction Era and the Creation of a new Union, the significance of the Civil War and Reconstruction in American history.

Prerequisite: HST 215

**HST 313 American History, 1876-1898**

A study of the social, political, and economic history of the United States from the end of Reconstruction to the Spanish-American War. Special attention is given to the beginnings of the modern labor movement, the rise of the city, immigration, agrarian protest movements, the businessman's philosophy, and the challenge to *laissez faire*.

Prerequisite: HST 215

**HST 314 American History, 1898-1928**

Political and social history of the United States from the Spanish War to the Great Depression.

Prerequisite: HST 215

**HST 315 American History Since 1928**

A study of the United States from the Great Depression to the Cold War.

Prerequisite: HST 215

**HST 317 Topics in American Intellectual History**

A study of major intellectual movements, including Puritanism, Transcendentalism, pragmatism, Freudianism, progressive education, and neo-orthodoxy.

Prerequisite: HST 215

**HST 318 Topics in American Social History**

A study of selected topics in the history of popular beliefs, social structure and organization, and the processes of social change, including movements of reform.

Prerequisite: HST 215

**HST 319 History of the American Negro**

An examination of the changing relationship of the Negro, in slavery and in freedom, to American society. It will include analysis of the values, attitudes and institutions which shaped and expressed Negro life.

Prerequisite: HST 215

**HST 320, 321 U. S. Diplomatic History**

HST 320 is a study of U. S. Diplomatic History from the Revolution to 1890.

HST 321 is a study of U. S. Diplomatic History from the Spanish American War to the present.

Prerequisites: HST 214, 215

**HST 324 The Ancient Historians**

(Identical with Classics 111)

**HST 325 Medieval Europe**

An intensive study of the European Middle Ages from about A.D. 400 to 1300, with special emphasis on intellectual developments.

Prerequisite: HST 141

**HST 326 The Renaissance**

An intensive study of the European Renaissance period with special emphasis upon the Italian experience.

Prerequisite: HST 141

**HST 327 The Reformation**

An intensive study of European Humanism with special emphasis on the Lowlands, England, and Germany.

Prerequisite: HST 141

**HST 333 Eighteenth Century England**

Critical study of the political, cultural, and intellectual life of England during the eighteenth and early nineteenth centuries. Emphasis is on individual reading, discussion, and special reports.

Prerequisite: HST 141 or HST 234 or HST 235

**HST 334 Victorian and Edwardian England**

The political, cultural, and intellectual life of England to the outbreak of World War I.

Prerequisite: HST 142 or HST 234 or HST 235

**HST 335 Twentieth Century Britain**

The British adjustment to global wars, the later industrial revolution, mass democracy, and social change.

Prerequisite: HST 142 or HST 234 or HST 235

**HST 341, 342 The Rise of Modern Nationalism**

The emergence of European nationalism from the time of the French Revolution, specific nationality and minority problems, and the spread of nationalist ideologies to the non-European world.

Prerequisites: Two Freshman Exploratories

**HST 343 Germany Since 1815**

A study of the political development of modern Germany as a nation state and the cultural and economic movements connected with German public life.

Prerequisites: Two Freshman Exploratories

**HST 344 Nineteenth Century Radicalism**

A parallel history of atheism, philosophical materialism, and socialism. From a critical study of the writings of a variety of poets, philosophers, and propagandists (Shelley, Feuerbach, Marx, Kropotkin), the course will move to a consideration

and evaluation of attempts to organize revolutionary movements around anti-theological doctrines (Germany in 1848, France in 1871, Russia in 1905).

Prerequisites: Two Freshman Exploratories

### **HST 345 France Since 1815**

A study of the political development of modern France as a nation state and the cultural and economic movements connected with French public life.

Prerequisites: Two Freshman Exploratories

### **HST 351 Topics in Russian History**

Intensive study of selected periods and problems in the history of Russia and the Soviet Union. In any one semester the course will be devoted to one of the following topics: (a) Kiev and Muscovy, (b) Imperial Russia, 1700-1917, (c) the Soviet Period, and (d) Russian Intellectual History. Emphasis is on individual reading, student reports, and class discussion. May be taken more than once.

Prerequisites: HST 251-252 or permission of the instructor.

### **HST 371 Topics in Chinese History**

Intensive analysis of selected periods and problems in the traditional and modern development of China. In any one semester the course will be devoted to one of the following topics: (a) History of the Chinese State, (b) Chinese Intellectual History, and (c) China Since 1800. Emphasis is on individual readings and special reports. May be taken more than once.

Prerequisite: UC 062

### **HST 381 Topics in the History of India**

Intensive analysis of selected periods and problems in the modern development of India. First semester will concentrate on the rise and character of British colonial rule, 1600-1857. Second semester will focus on the nationalist movement, 1857-1947. Either semester may be taken separately.

Prerequisite: UC 066

### **HST 391 Directed Readings in History**

A program of independent but directed readings designed for junior and senior majors in fields of history in which advanced courses are not available to the student. Offered every semester.

Prerequisite: Permission of the Department.

**HST 411 Senior Seminar in American History**

Reading and research in selected topics.

Prerequisites: HST 214-215 and major standing.

**HST 431 Senior Seminar in British History**

Selected topics for individual research in British cultural, social, and political history, sixteenth to the late nineteenth century.

Prerequisites: Two courses in British history and major standing.

**HST 441 Senior Seminar in European History**

Reading and research in selected topics.

Prerequisites: Two courses in European history and major standing.

**HST 481 Seminar in Historiography**

Reading and research in topics analyzing the literature of historical inquiry and writing from the Greeks to the present.

Prerequisites: Four history courses.

**HST 491 Directed Research in History**

A program of directed individual research designed for advanced history majors. May be taken for one or more semesters. May be taken for 4 or 8 credits per semester.

Prerequisite: Permission of the Department.

## DEPARTMENT OF MATHEMATICS

### Professors:

G. Philip Johnson, Chairman  
Louis R. Bragg  
John W. Dettman  
James H. McKay

### Associate Professors:

Harvey J. Arnold  
Donald G. Malm  
Harvey A. Smith  
Beauregard Stubblefield

### Assistant Professors:

Nguyen Phuong Cac  
Jogindar S. Ratti  
Virindra M. Sehgal

### Instructors:

Thomas M. Jenkins  
C. Peter Lawes

The Department of Mathematics offers programs of study leading to the degrees of B.A. with major in mathematics, B.A. with secondary teaching major in mathematics, M.A. in mathematics, and M.A.T. in mathematics. In addition, the department offers courses which are required or are used as electives in other programs of the university.

### *Requirements for the Liberal Arts Major in Mathematics*

Nine courses in mathematics (MTH 125, 131, 134, 314, 315 or 316 may not be used to satisfy this requirement. Each student is advised to complete MTH 352); two courses, totalling eight credits, in science; four courses, totalling sixteen credits, in a subject related to mathematics (These courses must be taken in a single department. If they are taken in a science, they may be used to satisfy simultaneously the two-course science requirement). Students planning to do graduate work should take additional mathematics, including several courses numbered in the five-hundreds. Admission to major standing requires four courses in mathematics, among which must be MTH 255 or MTH 258.

### *Requirements for the Secondary Teaching Major in Mathematics*

Eight courses in mathematics (MTH 131, 134, 314, 315, or 316 may not be used to satisfy this requirement. Each student is advised to complete MTH 352); two courses, totalling eight credits, in science; five or six courses, totalling twenty or twenty-four credits, in a minor. (If the minor is in one department, five courses are required; otherwise, six courses are needed. A group minor of six science courses is recommended, but other minors are permissible. If the minor is in science, the courses may be used to satisfy simultaneously the two-course science requirement); four courses in education (ED 244, 245, 428, and 455). Admission to major standing requires four courses in mathematics, including MTH 255 or MTH 258, and concurrent acceptance into the Teacher Education Program.

### *Requirements for the Secondary Teaching Minor in Mathematics*

Five courses in mathematics, including MTH 154-155. It is recommended that the other courses be selected from MTH 125, 254, 255, 335, 361, 375, and 376.

Well prepared freshmen who plan to major in mathematics, engineering, or science should plan to take MTH 154 as early as possible. A proficiency examination will be given by the Department, and students judged ready for calculus may enroll in MTH 154. Others must first pass MTH 134.

Freshmen who have had calculus in high school may apply to the Department for advanced placement. Those having scores of 4 or 5 on the College Entrance Examination Board advanced placement test will receive credit for MTH 154-155. Others, including those with scores of 3, will receive credit or advanced placement as deemed appropriate for their backgrounds.

#### **MTH 125 Introduction to Probability and Statistics**

Elementary set theory, sample spaces, combinatorics, random variables, Chebyshev's inequality, Bernoulli trials, binomial distribution, joint distributions, and introduction to statistics. Prerequisites: Three years of high school mathematics.

#### **MTH 131 Elements of Calculus**

The basic concepts, theorems, and applications of calculus, including material on functions of more than one variable

and infinite series. Credit cannot be earned for both MTH 131 and 154 or 155.

Prerequisites: Three years of high school mathematics.

**MTH 134 Elementary Functions**

A study of linear, trigonometric, exponential, and logarithmic functions, polynomials, linear equations, determinants, and selected topics from analytic geometry.

Prerequisite: Three years of high school mathematics.

**MTH 154-155 Calculus**

A comprehensive study of analytic geometry, limits, differentiation and integration for functions of one real variable.

Prerequisites: MTH 134 or satisfactory performance on proficiency examination.

**MTH 254 Intermediate Calculus and Linear Algebra**

An introduction to linear analysis. Vectors, linear equations, linear transformations, matrices, determinants, eigenvalues, linear differential equations.

Prerequisite: MTH 155.

**MTH 255 Intermediate Calculus**

A study of infinite series, multiple integration, differential calculus of scalar and vector fields, line and surface integrals.

Prerequisite: MTH 254.

**MTH 314 Structure of Number Systems**

Emphasizes the logical structure of the real number system. Properties of the natural numbers, integers, rational numbers, and real numbers are carefully proved. Computational techniques and teaching methods which pertain to the mathematics of the elementary grades.

Prerequisites: Two years of high school mathematics.

**MTH 315 Algebraic Structures**

From properties of numbers, algebraic concepts are developed; examples of other algebraic systems are investigated to show the generality and structure of algebra.

Prerequisite: MTH 314.

**MTH 316 Geometric Structures**

Selected topics from Euclidean geometry, finite projective and finite affine geometry, analytic geometry, and set theory. Includes an analysis of axiom systems, ruler and compass constructions, equations of lines, circuits, and graph theory.

Prerequisites: Two years of high school mathematics.



**MTH 322 Mathematical Models for Decision Making**

A study of several topics in mathematics which arise in the social sciences. Topics are selected from such areas as difference equations, statistics, stochastic processes, and game theory.

Prerequisites: MTH 125 and MTH 131, or MTH 155.

**MTH 325-326 Introduction to Mathematical Statistics**

A study of random variables and distributions, random sampling, point estimation, interval estimation, tests of hypothesis, regression, and distribution-free methods. The theory is illustrated through applications to various fields.

Prerequisite: MTH 255 or MTH 258.

**MTH 335 Introduction to Numerical Analysis**

A first course in mathematical methods appropriate to computer work. Topics treated include interpolation, approximation, quadrature, solution of differential equations, and matrix computation.

Prerequisite: MTH 254.

**MTH 351-352 Introduction to Analysis**

A careful development of the properties of the real and complex numbers, followed by a rigorous study of sequences and series, limits, continuity, differentiation, and integration. The emphasis will be on functions of one real variable.

Prerequisite: MTH 255 or MTH 258.

**MTH 361 Geometry**

A group-theoretic and axiomatic study of projective, affine, non-Euclidean, and advanced Euclidean geometry.

Prerequisite: MTH 155.

**MTH 373 Linear Algebra**

Finite-dimensional vector spaces, linear transformations, matrices, linear equations, quadratic forms, and eigenvalues.

Prerequisite: MTH 155.

**MTH 375-376 Modern Algebra**

A survey of algebraic structures including groups, rings, fields, vector spaces and modules, linear transformations and matrices.

Prerequisite: MTH 254.

**MTH 405 Special Topics**

Advanced study of some topic in mathematics. The course usually operates on an independent study of tutorial basis. It may be taken more than once.

Prerequisite: Permission of the department.

**MTH 416 Concepts of Geometry**

A development of geometry from an algebraic and metric viewpoint, concentrating on Euclidean geometry. Especially appropriate for M.A.T. candidates.

Prerequisite: Permission of the department.

**MTH 425 Probability**

Combinatorial analysis, probability distributions, law of large numbers, random walks, Markov chains, and stochastic processes.

Prerequisite: MTH 254.

**MTH 431 Methods of Mathematical Physics**

Series solution of ordinary differential equations, special functions, separation of variables in various coordinate systems, boundary value problems, eigenvalue problems, Fourier series and integrals, Laplace transforms.

Prerequisite: MTH 255.

**MTH 453 Multidimensional Analysis**

Integrals in  $E^n$ , differential forms, and general Stokes theorem.

Prerequisites: MTH 351 and MTH 376 or MTH 373.

**MTH 455 Introduction to Complex Variable Theory**

Analytic functions, integral theorems, series expansions, and theory of residues.

Prerequisite: MTH 254.

**MTH 461 General Topology**

A study of topological spaces and continuous functions. Separation and countability properties, connectedness, compactness, and local properties will be covered.

Prerequisite: MTH 352.

**MTH 472 Number Theory**

Number-theoretic functions, diophantine equations, congruences, quadratic residues, and continued fractions.

Prerequisite: MTH 254.

**MTH 490 Independent Study**

Library Research on some mathematical topic.

Prerequisite: Permission of the department.

**MTH 514-515 Concepts in Modern Algebra**

Designed for M.A.T. candidates. Includes topics from groups, rings, fields, matrices, linear transformations, and vector spaces.

Prerequisite: Permission of the department.

**MTH 517-518 Concepts in Analysis**

Designed for M.A.T. candidates. Includes a study of real and complex numbers, functions, limits, differentiation, integration, and infinite series with emphasis on careful proofs of theorems.

Prerequisite: Permission of the department.

**MTH 531 Mathematical Methods in Engineering I**

Designed primarily for students in engineering and science. Vector spaces and matrices, eigenvalue problems, applications to systems of differential equations, numerical methods in linear algebra. Infinite series, Taylor's series, power series methods in differential equations.

Prerequisite: MTH 255 or permission of the department.

**MTH 532 Mathematical Methods in Engineering II**

Designed primarily for students in engineering and science. Functions of several variables, vector field theory, partial differential equations, boundary value problems, Fourier series and Fourier integrals.

Prerequisite: MTH 255 or permission of the department.

**MTH 551-552 Real Analysis**

The general theory of measure and integration including development of the Lebesgue integral, the classical Banach spaces and elements of functional analysis.

Prerequisite: MTH 352.

**MTH 555-556 Complex Analysis**

Analytic functions, Cauchy's theorem, representation theorems, analytic continuation, Riemann surfaces, conformal mapping.

Prerequisite: MTH 352.

**MTH 561-562 Topology**

Homology theory and, at the discretion of the instructor, either such topics in algebraic topology as homotopy groups and cohomology theory or advanced topics in point-set topology.

Prerequisites: MTH 376 and 461.

**MTH 571-572 Algebra**

Group theory, rings and modules, linear and multilinear algebra, field extensions. Emphasis is placed, where possible, on categorical properties and functorial relationships.

Prerequisite: MTH 376.

**MTH 590 Directed Reading and Research**

Prerequisite: Permission of the department.

**DEPARTMENT OF MODERN LANGUAGES AND LITERATURES****Professors:**

Robert Simmons (German), Chairman  
Carmine R. Linsalata (Spanish)

**Associate Professors:**

Alfred DuBruck (French)  
Mrs. Helen Kovach (Russian)  
Richard Mazzara (French)  
Jack R. Moeller (German)  
Norman Susskind (French)  
Amitendranath Tagore (Chinese)

**Assistant Professors:**

James O. Bailey, Jr. (Russian)  
John W. Barthel (German)  
William C. Bryant (Spanish)  
Mrs. Dolores Burdick (French)  
George H. Engeman, Jr. (Spanish)  
Don Iodice (French)

**Instructors:**

Maurice J. Beznos (French)  
Edward L. Buote (Chinese)  
Mrs. Renate Gerulaitis (German)  
Jean-Pierre Ponchie (French)

Special Instructor:

Mrs. Carmen M. Urla (Spanish)

Assistant Instructors:

Joan T. Brace ((French)

Charles Forton (French)

Edite Franklin (Spanish)

Janet Karpisek (Spanish)

Norbert Noeldechen (German)

Hélène Trocmé (French)

Lecturer:

Oleg Hrabar (Russian)

Oakland University, dedicated to developing the highest intellectual and creative potential of its students, holds that the knowledge of foreign languages and literatures is an essential part of this development; indeed, that no one is really educated who has not broken through the barrier of his own language and come to know the mentality and culture of another people. Thus every student must satisfy a degree requirement in language.

The aim of the modern language curriculum is to help students acquire real competence in the language of a given country and, through the study of its literature, to acquaint them with the cultural background of that country. The major in a modern foreign language and its literature is primarily a humanities major. It prepares the student for professional graduate work and for teaching at the secondary and elementary levels.

Students whose main interests lie in other fields may wish to investigate the advantages of combining competence in a foreign language with that in their field of specialization. This is especially true for students interested in area studies, scientific research, employment with corporations having subsidiaries abroad, government work (the State Department, the United States Information Services, the consular service, the Central Intelligence Agency, economic and technical aid programs abroad, the Peace Corps), in interpreting, missionary work, or journalism. Today the thorough knowledge of a foreign language has as much practical as intellectual validity.

The aural-oral approach is stressed, and all literature courses which carry major credit are conducted in the language concerned, for all courses are designed to improve a student's proficiency in a particular language. There are also sections where the traditional approach is used. All courses meet in small sections. Further, classroom work in all beginning and intermediate sections is fully integrated with regularly scheduled sessions in a modern language laboratory, where students may prepare day-to-day work, catch up in case of absence, review, work ahead, or simply enjoy their linguistic accomplishments. For this latter purpose, recordings of plays, poems, and popular songs are available.

There are several kinds of activities on campus which provide students with opportunities to put their knowledge of foreign language to use: movies, dramatic presentations of selections from modern and classical plays, language clubs, and annual competitions for the prizes given to outstanding students in each of the languages taught.

Students interested in study abroad may get assistance in the department from special advisers who are familiar with the possibilities of study in foreign universities.

The student's selection of a language to study should be a reasoned, not a random choice; this observation holds as well for language taken to fulfill the general requirement as for the language chosen as a major field. The student should elect a language related to his field of interest or to his previous language training. If a student wishes to increase his proficiency in a language studied in high school, he should continue with it. If, however, he wishes to become a specialist in a language in great demand, but not widely taught in high schools, such as Russian, he should not hesitate to change. Students who need advice about these choices should consult with a member of the language department.

Three language tests are administered by the department. All students take the Modern Language Aptitude Test, which is designed to indicate general ability in the aural and grammatical areas. Test results are used in assigning students to the 101 or 114 series courses in French, German, and Spanish. Students who enter Oakland with previous study in French,

German or Spanish take the Placement Examination. This examination tests aural and grammatical skills in the specific foreign language in order to insure placement in language courses at a level commensurate with the student's ability. Periodically all students enrolled in language courses are required to take Achievement Tests. These serve as a measure of ability at certain given stages during the course of the student's language study.

Prospective majors should have completed, wherever possible, at least two years of a single language in high school. Prospective majors who have not had in high school at least two years of preparation in the language in which they propose to major will be required to take an intensive course at the second-year level during the spring semester following their freshman year so as to prepare them for work at the intermediate level (261 or 271) by the beginning of their sophomore year.

Any student who is registering for a language course beyond 215 and who is a prospective major, but who has not applied for, or who has not yet been officially admitted to major standing because he has not yet completed 56 semester hours of work, must consult with the department to make sure that his courses are scheduled in the proper sequence. Failure to do so could delay graduation beyond the eighth semester. Prospective majors who have completed 56 semester hours of work including 215 or who have completed 56 semester hours of work and who contemplate registering for any language course beyond 215 must apply for admission to major standing. Failure to do so could delay graduation beyond the eighth semester.

*Requirements for the Liberal Arts Major in a Modern Language*

The requirement is nine courses in the chosen language and its literatures (except Chinese) beyond 215. Ordinarily these include two sequences—Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences to be taken concurrently), and five advanced courses at the 300-499 level. Majors are urged to elect courses in other literatures, history, philosophy, art, and linguistics related to their major. Those planning to do graduate work are strongly urged to begin work in a second language to be recommended by the department. For concentration in French and Linguistics and German and Linguistics see page 191.

Admission to major standing requires completion of 56 credit hours, including four courses in a single foreign language: that is, through language 215, and one course in history relating to the area of language specialization. Exceptions to course requirements will be made for those who show competence in the language of specialization. Students who speak French, German, Russian, or Spanish fluently should in any event consult with the department before electing courses.

#### *Requirements for the Secondary Teaching Major in a Modern Language*

The requirement is eight courses in the chosen language and its literatures (except Chinese) beyond 215. Ordinarily these include two sequences — Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences to be taken concurrently), language 361, 365, and two courses at the 400-499 level. In addition, twenty semester credits in education are required: ED 244-245, 428, and 455.

Requirements for admission to major standing and exceptions to the language course requirements are the same as those stated above for a liberal arts major, acceptance by the Department of Modern Languages and Literatures, and concurrent acceptance into the Teacher Education Program.

#### *Teaching Minor in a Modern Language*

The Department does not offer a formal teaching minor, but students with special language backgrounds should consult with the Department if they wish to present a teaching minor.

#### *Requirements for an Elementary Teaching Concentration*

The Modern Language Concentration is designed for students who wish to teach a foreign language in the grades or at the junior high school level. This concentration requires four language courses beyond 215 or the equivalent. Ordinarily this includes two sequences: Composition and Conversation 261-262 and Introduction to Literature 271, 272, both sequences to be taken concurrently. Students are strongly urged to take as many additional courses at the 300-499 level as their schedules will permit. For complete details on other requirements, including courses in education, see page 170.



**LIBERAL ARTS MAJOR IN MODERN LANGUAGE<sup>1</sup>**  
(A typical program)

|   |   |  |  |
|---|---|--|--|
| <b>Semester 1</b><br>Freshman Exploratory<br>LANG 214<br>University Course<br>University Course | <b>Semester 2</b><br>Freshman Exploratory<br>LANG 215<br>University Course<br>University Course | <b>Semester 3</b><br>LANG 261<br>LANG 271<br>Elective<br>University Course | <b>Semester 4</b><br>LANG 262<br>LANG 272<br>Elective<br>University Course |
| <b>Semester 5</b><br>Major<br>Elective<br>Elective<br>University Course                         | <b>Semester 6</b><br>Major<br>Elective<br>Elective<br>University Course                         | <b>Semester 7</b><br>Major<br>Elective<br>Elective<br>University Course    | <b>Semester 8</b><br>Major<br>Major<br>Elective<br>Senior Colloquium       |

**SECONDARY TEACHING  
MAJOR IN MODERN LANGUAGE<sup>1</sup>**  
(A typical program)

|   |  |  |  |
|---|--|--|--|
| <b>Semester 1</b><br>Freshman Exploratory<br>LANG 214<br>University Course 054<br>University Course | <b>Semester 2</b><br>Freshman Exploratory<br>LANG 215<br>Elective<br>University Course | <b>Semester 3</b><br>LANG 261<br>LANG 271<br>ED 244<br>University Course | <b>Semester 4</b><br>LANG 262<br>LANG 272<br>ED 245<br>University Course |
| <b>Semester 5</b><br>LANG 361<br>LANG 365<br>Elective<br>University Course                          | <b>Semester 6</b><br>Major<br>Elective<br>Elective<br>University Course                | <b>Semester 7</b><br>Major<br>Senior Colloquium<br>Elective<br>Elective  | <b>Semester 8</b><br>ED 428<br>ED 455                                    |

<sup>1</sup>Students who have not had any previous language work in the language of the proposed major will take Language 114 in semester 1, Language 115 in semester 2, and an intensive second-year course (214-215) during the Spring Semester.

**CHINESE LANGUAGE AND LITERATURE**

**CHE 114-115 First Year Chinese (Five credits each)**

An introduction to modern Mandarin Chinese (Kuo-yu), emphasizing both conversation and reading.

**CHE 214-215 Second Year Chinese (Five credits each)**

Continued study of Kuo-yu with increasing emphasis on reading and composition. May be conducted as a tutorial.  
Prerequisites: CHE 114-115 or permission of the instructor.

**CHE 271-272 Introduction to Chinese Literature**

Introductory study of various genres of Chinese literature, classical or modern. May be conducted as a tutorial.  
Prerequisites: CHE 215 and permission of the instructor.

**CHE 285 Contemporary Chinese Literature**

Origins and historical development of Chinese literature between 1900-1960. Lectures and readings in English.  
Prerequisite: UC 062 or permission of the instructor.

## **MODERN LANGUAGES (Continued)**

### **CHE 370 Selections from Chinese Literature**

Advanced study of various genres of Chinese literature, classical or modern. May be conducted as a tutorial, and may be repeated for credit.

Prerequisites: CHE 271-272 or permission of the instructor.

## **FRENCH LANGUAGE AND LITERATURE**

### **FRH 101-102 Elementary Reading in French**

Designed to help students acquire a reading knowledge of French. Elements of grammar, extensive reading of graded texts. Admission contingent upon departmental testing. To be followed by FRH 201-202. Not open to prospective majors.

### **FRH 114-115 First Year French (Five credits each)**

Devoted to aural-oral adaptation, the study of fundamental speech patterns, practice in writing, and the reading of graded texts. Not ordinarily open to students who have had two or more years of secondary school preparation. Admission contingent upon departmental testing. To be followed by FRH 214-215.

### **FRH 201-202 Intermediate Reading in French**

Continued development of reading skill, extensive readings in cultural and literary texts, and unedited materials of various kinds.

Prerequisite: 102 or placement by department testing. Not open to prospective majors.

### **FRH 214-215 Second Year French (Five credits each)**

Devoted to aural-oral adaptation. Review of grammar essentials and more intensive practice in developing speaking and writing skills combined with reading of literary and cultural texts.

Prerequisite: FRH 115 or an appropriate placement examination score.

### **FRH 251 French Civilization**

A survey of French achievements in art, music, and other cultural fields. Emphasis will be placed on the various aspects of French culture in daily life. Conducted primarily in French.

Prerequisite: FRH 215 or an appropriate placement examination score.

**FRH 261-262 French Composition and Conversation**

Devoted to increasing the student's command of the language and familiarizing him with idiomatic French. Intensive practice in oral and written composition as well as translation. Techniques of textual analysis and exposition are introduced. Conducted primarily in French.

Prerequisite: FRH 215, or an appropriate placement examination score. Especially qualified freshmen may be admitted.

**FRH 271, 272 Introduction to French Literature**

The study of masterpieces of French literature. Classwork and oral and written reports in French.

Prerequisite: FRH 215, or an appropriate placement examination score. Especially qualified freshmen may be admitted.

**FRH 285, 286 Main Currents of French Thought and Literature**

Man and society as seen in the works of representative authors from the Renaissance to the present. Lectures and readings in English. Not open to French majors.

Prerequisite: Sophomore standing or permission of the instructor.

FRH 285 covers the period from the Renaissance to the 19th century. FRH 286 deals with the 19th and 20th centuries.

**FRH 361 Advanced Composition and Conversation**

Intensive oral work designed to perfect conversational ability, with emphasis on phonetics and diction. Extensive written work to increase the student's skill in original composition. Analysis of style in selected passages from French authors. Strongly recommended for all students, especially those planning to teach at the elementary level. Required for secondary teaching majors.

Prerequisite: FRH 262.

**FRH 365 Applied Linguistics of French**

An introduction to modern linguistic insights with particular reference to their application in the understanding and teaching of the contemporary language; a brief survey of the nature of the linguistic changes underlying the development of modern French. Required for secondary teaching majors.

Prerequisite: FRH 262 or permission of the instructor.

**FRH 421, 422 Seventeenth Century French Literature**

FRH 421 deals with the development and character of French

## MODERN LANGUAGES (Continued)

classicism: Descartes, Pascal, the novels of D'Urfé and Mme de La Fayette, the theatre of Corneille and Racine. FRH 422 is principally a study of Molière and La Fontaine. Selections from the great prose writers: La Rochefoucauld, Mme de Sévigné, Bossuet, La Bruyère, Fénelon, Saint-Simon, Bayle, and Fontenelle. These courses are conducted in French and are offered in alternate years.

Prerequisite: FRH 272.

### FRH 431, 432 Eighteenth Century French Literature

FRH 431 deals with the development of the philosophical spirit from Bayle to Voltaire; the interplay between France and England; the comedy of Marivaux and Beaumarchais and developments in the novel.

FRH 432 deals with political, social, and ethical thought of the Enlightenment; the Encyclopedists and later *Philosophes*. Primarily a study of Montesquieu, Diderot, and Rousseau, including the origins of Romanticism. These courses are conducted in French and are offered in alternate years.

Prerequisite: FRH 272.

### FRH 441, 442 Nineteenth Century French Literature

FRH 441 is concerned with the flowering of Romanticism and the beginnings of Realism: novelists, dramatists, poets, and essayists, including Chateaubriand, Lamartine, Hugo, Vigny, Musset, Nerval, and Stendhal.

FRH 442 deals with the realistic novel, review of the Parnassian poets and the problem play, and the esthetics of naturalism; the relation of literature to the philosophical, political and social ideas of the time. Primarily a study of Balzac, Flaubert, Zola, the Goncourts, and de Maupassant. These courses are conducted in French and offered in alternate years.

Prerequisite: FRH 272.

### FRH 451 Twentieth Century French Novel

Developments in the novel since the turn of the century. Primarily a study of Proust, Gide, Mauriac, Malraux, Camus, Sartre, and representative authors of the new school. Conducted in French and offered in alternate years.

Prerequisite: FRH 272.

**FRH 452 Twentieth Century French Theatre**

Drama since the *Théâtre Libre*. Theatrical innovations and reforms of Copeau, Jouvet, Baty, Dullin, and others. Primarily a study of Claudel, Giraudoux, Anouilh, Monthlery, Camus, Sartre, and the recent experiments of Ionesco and Beckett. Conducted in French and offered in alternate years.

Prerequisite: FRH 272.

**FRH 453 Modern French Poetry**

Reading and discussion of French poetry from symbolism to the present. Conducted in French.

Prerequisite: FRH 272.

**FRH 480 Seminar in French Literature**

Study of individual authors, selected themes, or critical problems.

Prerequisites: Major standing in French and permission of the instructor.

**FRH 490 Independent Reading and Research**

Directed individual research and reading designed for advanced French majors. May be taken for 4 or 8 credits per semester and may be taken for one or more semesters.

Prerequisite: Permission of the Department.

**FRH 505-506 Composition and Conversation**

Intensive work in oral and written expression. (NDEA Institute: 8 credits granted upon completion of 506.)

**FRH 507-508 Intermediate Composition and Conversation**

Additional intensive work in oral and written expression. (NDEA Institute: 8 credits granted upon completion of 508.)

**FRH 510 French Stylistics**

Theory and practice of French stylistics.

Prerequisite: French 361 (or equivalent) or permission of the department.

**FRH 565 Applied Linguistics of French**

An introduction to modern linguistic insights with particular reference to their application in the understanding and teaching of the contemporary language; a brief survey of the nature of the linguistic changes underlying the development of modern French.

Prerequisite: Permission of the instructor.

## **MODERN LANGUAGES (Continued)**

### **FRH 580 Graduate Seminar**

Study of individual authors, selected themes, or critical problems.

Prerequisites: Graduate standing in French and permission of the instructor.

## **GERMAN LANGUAGE AND LITERATURE**

### **GRM 101-102 Elementary Reading in German**

Designed to help students acquire a reading knowledge of German. Elements of grammar, extensive reading of graded texts. Admission contingent upon departmental testing.

To be followed by GRM 201-202. Not open to prospective majors.

### **GRM 114-115 First Year German (Five credits each)**

Devoted to aural-oral adaptation, the study of fundamental speech patterns, practice in writing, and the reading of graded texts. Not ordinarily open to students who have had two or more years of secondary school preparation.

To be followed by GRM 214-215.

### **GRM 201-202 Intermediate Reading in German**

Continued development of reading skill, extensive readings in cultural and literary texts, and unedited materials of various kinds.

Prerequisite: GRM 102 or placement by departmental testing. Not open to prospective majors.

### **GRM 214-215 Second Year German (Five credits each)**

Review of grammar essentials and more intensive practice in developing speaking and writing skills, combined with reading of literary and cultural texts.

Prerequisite: GRM 115 or an appropriate placement examination score.

### **GRM 261-262 German Composition and Conversation**

Devoted to increasing the student's command of the language and familiarizing him with idiomatic German. Intensive practice in oral and written composition as well as translation. Techniques of textual analysis and exposition are introduced. Conducted primarily in German.

Prerequisite: GRM 215 or an appropriate placement examination score.

Especially qualified freshmen may be admitted.

**GRM 271, 272 Introduction to German Literature**

Masterpieces of German literature. Classwork and oral and written reports in German.

Prerequisites: GRM 215 or an appropriate placement examination score.

Especially qualified freshmen may be admitted.

**GRM 285 Main Currents of German Thought and Literature**

A survey of German culture from the Enlightenment to the present day, as reflected in philosophical, critical, and literary works from the various eras. Lectures and readings in English.

Not open to German majors.

Offered in alternate years.

Prerequisite: Sophomore standing or permission of the instructor.

**GRM 361 Advanced Composition and Conversation**

Intensive oral work designed to perfect conversational ability, with emphasis on phonetics and diction. Extensive written work to increase the student's skill in original composition. Analysis of style in selected passages from German authors. Strongly recommended for all students, especially those planning to teach at the elementary level. Required for secondary teaching majors.

Prerequisite: GRM 262

**GRM 365 Applied Linguistics of German**

An introduction to modern linguistic insights with particular reference to their application in the understanding and teaching of the contemporary language; a brief survey of the nature of the linguistic changes underlying the development of modern German.

Required for secondary teaching majors.

Prerequisite: 262 or permission of instructor.

**GRM 421, 422 The Age of Goethe and Goethe's *Faust***

GRM 421 deals with representative works of Goethe (exclusive of *Faust*), Schiller, and their contemporaries, which exemplify the intellectual and artistic currents of the Enlightenment, Storm and Stress, and Classicism.

GRM 422 is a detailed study of *Faust I* and *II*, its position in German literature and its importance as a masterpiece of world literature. Conducted in German and offered in alternate years. Prerequisite: GRM 272.

## MODERN LANGUAGES (Continued)

### GRM 431 German Romanticism and Realism

The literature of Romanticism and Poetic Realism, a study of the origin and development of these movements in the light of the political and philosophic background of the age, with special emphasis on the lyric poetry of Romanticism, the dramas of Kleist, Grillparzer, and Hebbel, and the Novelle of Poetic Realism. Conducted in German.

Prerequisite: GRM 272

### GRM 434 Naturalism, Impressionism, Expressionism

German literature of the era 1880-1920, with analysis of selected texts from these periods. Conducted in German and offered in alternate years.

Prerequisite: GRM 272

### GRM 451 Modern Prose Fiction

A survey of novels and *Novellen* from World War I to the present, stressing developments in these genres since World War II. Conducted in German and offered in alternate years.

### GRM 480 Germanistisches Proseminar

Intensive investigation of some special aspects of German literature, stressing research and independent study.

Prerequisites: Major standing in German and permission of the instructor.

### GRM 490 Independent Reading and Research

Directed individual research and reading designed for advanced German majors. May be taken for 4 to 8 credits per semester and may be taken for one or more semesters.

Prerequisite: Permission of the Department.

## RUSSIAN LANGUAGE AND LITERATURE

### RUS 114-115 First Year Russian (Five credits each)

Devoted to aural-oral adaptation, the study of fundamental speech patterns, practice in writing, and the reading of graded Russian texts. Not ordinarily open to students who have had two or more years of secondary school preparation.

### RUS 214-215 Second Year Russian (Five credits each)

Review of grammar essentials and more intensive practice in developing speaking and writing skills combined with reading of literary and cultural texts.

Prerequisites: RUS 115 or evidence of proficiency and permission of the Department.



### **RUS 261-262 Russian Composition and Conversation**

Devoted to increasing the student's command of the language and familiarizing him with idiomatic Russian. Intensive practice in oral and written composition as well as translation. Techniques of textual analysis and exposition. Conducted primarily in Russian.

Prerequisites: RUS 215 or evidence of proficiency and permission of the Department. Especially qualified freshmen may be admitted.

### **RUS 271, 272 Introduction to Russian Literature**

The study of masterpieces of Russian literature. Classwork and oral and written reports in Russian.

Prerequisites: RUS 215 or evidence of proficiency and permission of the Department. Especially qualified freshmen may be admitted.

### **RUS 285, 286 Survey of Russian Literature**

Russian 285 covers Russian literature from the beginning to 1880 and emphasizes the realistic novel. Russian 286 deals with the period from 1880 to the present and mainly is concerned with Soviet literature. Lectures and readings in English. Either course may be taken independently of the other. Not open to Russian majors.

Prerequisite: Sophomore standing or permission of the instructor.

### **RUS 361-362 Advanced Composition and Conversation**

Intensive oral work designed to perfect conversational ability with emphasis on phonetics and diction. Extensive written work along with analysis of style in selected passages from Russian authors. RUS 361 is recommended for elementary teaching majors and is required for secondary teaching majors. RUS 361-362 is required for Russian majors in Liberal Arts.

Prerequisite: RUS 262

### **RUS 365 Applied Linguistics of Russian**

An introduction to modern linguistic insights with particular reference to their application in the understanding and teaching of the contemporary language; a brief survey of the nature of the linguistic changes underlying the development of modern Russian. Required for secondary teaching majors. Prerequisite: RUS 262 or permission of instructor.

## **MODERN LANGUAGES (Continued)**

### **RUS 426 Russian Poetry of the First Half of the Nineteenth Century**

The major Russian poets from 1800 to 1840: Zhukovsky, Batyushkov, Delvig, Baratynsky, Yazykov and Lermontov. Conducted in Russian and offered in alternate years.  
Prerequisite: RUS 272

### **RUS 427 Russian Poetry of the Second Half of the Nineteenth Century**

Study of poetry from 1840 to symbolism with special emphasis on Tyutchev, Fet, A. Tolstoy, and Nekrasov. Conducted in Russian and offered in alternate years.  
Prerequisite: RUS 272

### **RUS 428 Pushkin**

Study of Pushkin's poetry, prose, and drama. Conducted in Russian and offered in alternate years.  
Prerequisite: RUS 272

### **RUS 432 Gogol**

Study of Gogol's works and his place in Russian literature. Conducted in Russian and offered in alternate years.  
Prerequisite: RUS 272

### **RUS 433 Russian Drama**

Survey of Russian drama from the 17th century to the present. Conducted in Russian and offered in alternate years.  
Prerequisite: RUS 272

### **RUS 434 Russian Realism**

Russian realistic novel from 1840 to 1880. Selections from the major novelists. Conducted in Russian and offered in alternate years.  
Prerequisite: RUS 272

### **RUS 435 Chekhov**

Devoted mainly to Chekhov's prose but includes other prose writers of the time such as Garshin, Korolenko, Gorky, Bunin, Kuprin, and Andreev. Conducted in Russian and offered in alternate years.  
Prerequisite: RUS 272

**RUS 441 Tolstoy**

Study of Tolstoy's literary and moral development as reflected in his major works.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

**RUS 442 Dostoevsky**

Study of Dostoevsky's evolution as a writer and thinker.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

**RUS 448 The Silver Age**

A survey of Russian Symbolism, Acmeism, and Futurism with an emphasis on the poets of the Silver Age.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

**RUS 450 Soviet Literature**

A survey of the main trends of Soviet literature from 1917 to the present.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

**RUS 480 Seminar in Russian Literature**

Intensive investigation of some aspect of Russian literature.

Prerequisites: Major standing in Russian and permission of the instructor.

**RUS 490 Independent Reading and Research**

Directed individual research and reading designed for advanced Russian majors. May be taken for 4 or 8 credits per semester and may be taken for one or more semesters.

Prerequisite: Permission of the Department.

**SPANISH LANGUAGE AND LITERATURE**

**SPN 101-102 Elementary Reading in Spanish**

Designed to help students acquire a reading knowledge of Spanish. Elements of grammar, extensive reading of graded texts. Admission contingent upon departmental testing.

To be followed by SPN 201-202.

Not open to prospective majors.

**SPN 114-115 First Year Spanish (Five credits each)**

Devoted to aural-oral adaptation, the study of fundamental speech patterns, practice in writing, and the reading of graded

## **MODERN LANGUAGES (Continued)**

texts. Not ordinarily open to students who have had two or more years of secondary school preparation. Admission contingent upon departmental testing. To be followed by SPN 214-215.

### **SPN 201-202 Intermediate Reading in Spanish**

Continued development of reading skill, extensive readings in cultural and literary texts, and unedited materials of various kinds.

Prerequisite: SPN 102 or placement by departmental testing. Not open to prospective majors.

### **SPN 214-215 Second Year Spanish (Five credits each)**

Devoted to aural-oral adaptation. Review of grammar essentials and more intensive practice in developing speaking and writing skills combined with reading of literary and cultural texts.

Prerequisite: SPN 115 or appropriate score on a placement examination.

### **SPN 261-262 Spanish Composition and Conversation**

Devoted to increasing the student's command of the language and familiarizing him with idiomatic Spanish. Intensive practice in oral and written composition as well as translation. Techniques of textual analysis and exposition are introduced.

Conducted primarily in Spanish.

Prerequisite: SPN 215, or an appropriate score on a placement examination. Especially qualified freshmen may be admitted.

### **SPN 271, 272 Introduction to Spanish Literature**

The study of masterpieces of Spanish literature. Classwork and oral and written reports in Spanish.

Prerequisite: SPN 215, or an appropriate score on a placement examination. Especially qualified freshmen may be admitted.

### **SPN 285, 286 Survey of Spanish and Latin-American Literature**

SPN 285 will be a survey of Spanish literature from El Cid through the Twentieth Century. SPN 286 will include major works from Latin America. Lectures and readings in

English. Either course may be taken independently of the other. Not open to Spanish majors.

Prerequisite: Sophomore standing or permission of the instructor.

**SPN 361 Advanced Composition and Conversation**

Intensive oral work designed to perfect conversational ability, with emphasis on phonetics and diction. Extensive written work to increase the student's skill in original composition. Analysis of style in selected passages from Spanish authors. Strongly recommended for all students, especially those planning to teach at the elementary level. Required for secondary teaching majors.

Prerequisite: SPN 262

**SPN 365 Applied Linguistics of Spanish**

An introduction to modern linguistic insights with particular reference to their application in the understanding and teaching of the contemporary language; a brief survey of the nature of the linguistic changes underlying the development of modern Spanish. Required for secondary teaching majors. Prerequisite: 262 or permission of instructor.

**SPN 411 Cervantes**

Detailed study of the literary value and philosophical connotations of the *Quijote*, the *Novelas Ejemplares* and dramatic works, especially the *Entremeses*. Conducted in Spanish and offered in alternate years.

Prerequisite: SPN 272

**SPN 421 Spanish Novel of the Golden Age**

A detailed study of the picaresque novel, the pastoral novel of Montemayor, and selections from other prose writers, including Velez de Guevara and Zayas. Conducted in Spanish and offered in alternate years.

Prerequisite: SPN 272

**SPN 422, 423 Spanish Drama of the Golden Age**

SPN 422 places special emphasis on the role of Lope de Vega in the development of Spanish drama. Includes, Tirso de Molina and the Don Juan legend, Ruiz de Alarcon, Guillen de Castro, and others. Conducted in Spanish.

SPN 423 places special emphasis on Calderon. Includes Rojas Zorrilla, Moreto, Quinones de Benavente, and selections from the *autos sacramentales*. Conducted in Spanish and offered in alternate years.

Prerequisite: SPN 272

## **MODERN LANGUAGES (Continued)**

### **SPN 431 The Romantic Movement in Spanish Literature**

Developments in drama, poetry, and the novel. Includes Martinez de la Rosa, Hartzenbusch, Duque de Rivas, Espronceda, Zorrilla, Fernandez y Gonzalez, Gil y Carrasco, and others. Conducted in Spanish and offered in alternate years. Prerequisite: SPN 272

### **SPN 432 Spanish Realism and Naturalism**

Emphasis on novelists such as Fernan Caballero, Galdos, Pardo Bazan, Palacio Valdes. Selections from principal poets and dramatists, including Becquer, Echegaray, and others. Conducted in Spanish and offered in alternate years. Prerequisite: SPN 272

### **SPN 441 The Generation of 1898**

New modes of thought and aspirations as reflected in the works of novelists, poets, and thinkers such as Baroja, Azorin, Valle-Inclan, Perez de Ayala, Unamuno, Ortega y Gasset, Maeztu, and M. Machado. Conducted in Spanish. Prerequisite: SPN 272

### **SPN 451 The Modernista Movement in Spanish-American Literature**

Principally a study of the prose and poetry of Ruben Dario and his influence. Selections from authors such as Gutierrez Najera, Marti, Rodo, Santos Chocano, and Amado Nerva. Conducted in Spanish and offered in alternate years. Prerequisite: SPN 272

### **SPN 461 Modern Spanish-American Literature**

Selected works of Spanish-American authors after the "modernista" movement, including Jose Vasconcelos, Alfonso Reyes, Horacio Quiroga, Romulo Gallegos, Gabriela Mistral, and Pablo Neruda. Conducted in Spanish and offered in alternate years. Prerequisite: SPN 272

### **SPN 471 The Contemporary Spanish Novel**

Esthetic innovations and themes in the works of authors such as Cela, Zunzunequi, Laforet, Gironella, Goytisolo, and others. Conducted in Spanish and offered in alternate years. Prerequisite: SPN 272

**SPN 480 Seminar in Spanish Literature**

Study of individual authors, selected themes, or critical problems.

Prerequisites: Major standing in Spanish and permission of the instructor.

**SPN 490 Independent Reading and Research**

Directed individual research and reading designed for advanced Spanish majors. May be taken for 4 or 8 credits per semester and may be taken for one or more semesters.

Prerequisite: Permission of the Department.

**MODERN LANGUAGE**

**ML 500 The Teaching of Modern Languages I**

An introduction to the use of techniques of applied linguistics in the teaching of modern foreign languages. Special emphasis on the problems of developing speaking and writing skills, teaching of structure, and the construction of testing devices. Presupposes a major concentration in a foreign language and previous teaching experience at the junior high or high school levels.

Prerequisite: Permission of the department.

**ML 501 The Teaching of Modern Languages II**

An advanced-level, linguistically-oriented course with emphasis on the preparation of materials for intermediate and advanced classes. Presupposes a major concentration in a foreign language and previous teaching experience at the junior high or high school levels.

Prerequisite: One of the following: Education 428 (Teaching of Modern Language), Modern Language 500, participation in an N.D.E.A. Institute, or permission of the department.

## DEPARTMENT OF MUSIC

### Professors:

Walter S. Collins

Sixten Ehrling

### Associate Professor:

Charles Heffernan

### Assistant Professors:

David DiChiera, Acting Chairman

Wilbur Kent

### Instructors:

John N. Dovaras

Robert Facko

Jon H. Appleton

### Assistant Instructor:

Alice Engram

The Department of Music offers three major programs: (1) The major in music theory and composition is designed to prepare the student for graduate study in theory and composition, for college teaching, composing, arranging, and conducting. (2) The major in music history and literature is designed to prepare the student for graduate work in musicology, for college teaching, criticism and writing about music. (3) The teaching major in music is designed to prepare the student for a career in teaching or supervising music in the elementary school or for teaching music in the secondary school. Michigan certification for both elementary and secondary teaching may be earned in this program.

Music is also a part of the extracurricular life at Oakland. There are performance groups of various kinds on campus, and there is a lecture-concert series which brings outstanding performers to the Oakland community. During the summer the University becomes the second home of the Detroit Symphony Orchestra, which performs for the Meadow Brook Music Festival. In addition, Oakland's proximity to Detroit allows students to hear, at reduced prices, many great performing artists and to attend a wide variety of musical events in the city.

### *Requirements For the Liberal Arts Major In Music Theory and Composition*

Minimal course requirements beyond UC 049 are 211, 212, 311, 312, 411, 412, 492, 493, 321, 322 and 16 credits in applied



music (10 in the major proficiency and 6 in the minor). German is the recommended foreign language for this major. Admission to major standing requires Freshman Exploratories, UC 049, MUS 211, MUS 212.

Each major must also satisfy the following three requirements: (1) Demonstration of major proficiency in some solo performing medium. Students should discuss with the Music Department the methods for satisfying this requirement at the time of their registration in the University. (2) Demonstration of a minor proficiency in some solo performing medium. Keyboard (piano or organ) must be chosen as a major or minor proficiency. A description of this requirement is available from the Department; it may be satisfied by passing a qualifying examination administered by the Department. All prospective music majors are urged to acquire as much keyboard facility as possible *before* entering the University. (3) Participation for 7 semesters in a recognized performing group at the University. The Department reserves the right to limit the number of credits given for this activity. (4) All music majors are expected to be familiar with the basic literature of music. The music major is expected to know one hundred standard works by the time he graduates. Twenty-five works are suggested for study each year the student is in residence. The list of works is available from the Department.

*Requirements for the Liberal Arts Major  
In Music History and Literature*

Minimal course requirements beyond UC 049 are 211, 212, 311, 312, 411, 412, 321, 322, 490, 491, and 16 credits in applied music (10 in the major proficiency and 6 in the minor). All other requirements are the same as those for the major in music theory and composition.

*Requirements for the Teaching Major in Music*

Students in this major will normally be certified for both elementary and secondary teaching. Minimal course requirements beyond UC 049 are 211, 212, 311, 312, 411, 412, 321, 322, two courses from either 401, 402, 403, and 14 credits in applied music (8 in the major proficiency and 6 in the minor). The following education courses are required: ED 244-245, ED 428, and ED 455. Admission to major standing requires acceptance by the Department of Music and concurrent acceptance into the Teacher Education Program.

## LIBERAL ARTS MAJOR IN MUSIC

### (A typical program)

|  |  |   |   |
|--|--|---|---|
| <b>Semester 1</b><br>Freshman Exploratory<br>MUS 211<br>UC 049<br>Foreign Language | <b>Semester 2</b><br>Freshman Exploratory<br>MUS 212<br>UC<br>Foreign Language | <b>Semester 3</b><br>MUS 311<br>MUS 321<br>UC<br>Foreign Language   | <b>Semester 4</b><br>MUS 312<br>MUS 322<br>UC<br>Foreign Language |
| <b>Semester 5</b><br>MUS 411<br>UC<br>UC<br>Elective                               | <b>Semester 6</b><br>MUS 412<br>UC<br>UC<br>Elective                           | <b>Semester 7</b><br>MUS (490 or 492)<br>UC<br>Elective<br>Elective | <b>Semester 8</b><br>Sr. Colloquium<br>Elective<br>Elective       |

## TEACHING MAJOR IN MUSIC

### (A typical program)

|  |  |  |   |
|--|--|--|---|
| <b>Semester 1</b><br>MUS 211<br>Freshman Exploratory<br>UC 049<br>Foreign Language | <b>Semester 2</b><br>MUS 212<br>Freshman Exploratory<br>UC 054<br>Foreign Language | <b>Semester 3</b><br>MUS 311<br>MUS 321<br>ED 244<br>UC            | <b>Semester 4</b><br>MUS 312<br>MUS 322<br>ED 245<br>UC |
| <b>Semester 5</b><br>MUS 411<br>UC<br>UC<br>Elective                               | <b>Semester 6</b><br>MUS 412<br>MUS 403<br>UC<br>UC                                | <b>Semester 7</b><br>MUS<br>Sr. Colloquium<br>Elective<br>Elective | <b>Semester 8</b><br>ED 428<br>ED 455                   |

**MUS 101 University Chorus (one credit)**

**MUS 102 Oakland Singers (one credit)**

**MUS 103 Collegium Musicum (one credit)**

**MUS 105 Opera Workshop (one credit)**

**MUS 106 University Orchestra (one credit)**

**MUS 111 Beginning Musicianship**

An introduction to the techniques of reading and writing music, notation, pitch, and rhythmic organization, elementary sight singing, dictation, and keyboard familiarity. An elective course for nonmusic majors.

**MUS 149 Music as an Art and as an Elementary School Subject**

An introduction to the techniques of listening to music, and of teaching music in the elementary school. Begins at a level for the student lacking previous musical experience. Substitutes for UC 049 for general elementary education majors. Normally offered fall and winter semesters.

- MUS 160 Voice\***
- MUS 161 Piano\***
- MUS 162 Organ\***
- MUS 164 Violin\***
- MUS 168 Flute\***
- MUS 175 Tuba\***
- MUS 177 Percussion\***

**MUS 211-212-311-312-411-412 Music Theory (three credits each)**

A six semester sequence required of all music majors. Included are such topics as the harmony of the common-practice period, keyboard harmony, modal and tonal counterpoint, form and analysis, and elementary orchestration. Laboratory sessions will be provided to supplement classroom drill in melodic, harmonic, and contrapuntal dictation, and in sight-singing. Sequence begins each Fall semester.

Prerequisites: Minimum keyboard proficiency and permission of the instructor.

**MUS 321 Music History and Literature to 1750**

History and literature of music through the Baroque Period. Designed primarily for music majors. Offered each Fall semester.

Prerequisites: UC 049 and permission of the instructor.

**MUS 322 Music History and Literature Since 1750**

History and literature of music from 1750 to the present. Offered each Winter semester. Designed primarily for the music majors.

Prerequisites: UC 049 and permission of the instructor.

**MUS 331 Opera and Music Drama**

A study of music drama from the lyric drama of the ancient Greeks to the present. Suggested as an elective for nonmusic majors.

Prerequisite: UC 049

**MUS 332 Symphonic Music**

A study of symphonic music from the pre-classic compositions of C.P.E. Bach to the present. Suggested as an elective for nonmusic majors.

Prerequisite: UC 049

**MUS 342 Music in the Baroque Era**

A study of significant forms, composers, and nationalistic trends in the Baroque Era. Suggested as an elective for the nonmusic major.

Prerequisites: UC 049 and permission of the instructor.

**MUS 345 Twentieth Century Music**

A study of significant styles and composers from Debussy to the present. Suggested as an elective for the nonmusic major.

Prerequisites: UC 049 and permission of the instructor.

**MUS 371-372 Keyboard Technique**

Designed to develop the basic keyboard facility essential to the equipment of any musician and to acquaint him with keyboard literature. Music majors planning to register for this course should indicate such intention to the Music Department at the time of their first registration in the University. Normally offered each semester.

Prerequisite: Permission of the instructor.

**MUS 401 Teaching Music in Elementary Schools**

The organization and content of the general vocal music class in the kindergarten and the first six grades of elementary school. The development of musicality in the child through singing, playing instruments, listening to music, and participating in rhythmic activities. Special emphasis on teaching music reading and ear training to young children.

**MUS 402 Teaching Music Literature, History and Theory in Secondary Schools**

The organization and content of music classes in secondary schools which are not performance oriented. The study of music from the standpoint of the knowledgeable listener. Selection of appropriate repertoire; the study of form, instrumentation, and musical style. The place of music in general history and its relationship to the other arts. The high school music theory class—its role in the secondary school music curriculum. The high schools' responsibility to prospective college music majors. Teaching music fundamentals, ear-training, orchestration, and composition in secondary schools.

**MUS 403 Conducting Choral Music in Secondary Schools**

The organization and conducting of choral music in junior and senior high schools. The development of the adolescent

and young adult voice. Problems of selection of repertoire. The selected choir, the mixed chorus, glee clubs, madrigal groups and other small vocal ensembles. Historical style in choral singing. Choral festivals and contests.

**MUS 490 Introduction to Bibliography**

A course designed primarily for the Music History and Literature major. A rigorous and systematic introduction to basic research materials and methodology in musicology.

Prerequisite: MUS 412

**MUS 491 Directed Research in Music History**

A program of directed individual reading and research designed for advanced music history majors.

Prerequisites: Permission of the instructor and MUS 412.

**MUS 492-493 Advanced Music Theory and Composition**

Primarily for the Theory-Composition major. Includes studies in canon and fugue, twentieth century techniques, advanced orchestration, free composition, and speculative theory.

Prerequisite: MUS 412

\*\$60.00 Special Music Fee Charged  
(Other Orchestral Instruments by Special Arrangements)

**DEPARTMENT OF PHILOSOPHY**

Professor:

James C. Haden, Chairman

Associate Professor:

Richard J. Burke

Assistant Professor:

Alfred Lessing

Instructor:

Richard W. Brooks

Henry Rosement, Jr.

Lecturer:

Charles E. Morton

*Requirements for the Liberal Arts Major in Philosophy*

Nine departmental courses are required, including PHL 201, 204, 205, 206, and 490. The requirement of PHL 201 may be waived upon advance application to the departmental chairman. Knowledge beyond the introductory level is required in at least one area outside philosophy. This requirement is normally fulfilled by electing four or more courses in the same

field, exclusive of University courses, chosen by the student in consultation with his departmental adviser. In conjunction with PHL 490 each student must pass an oral examination on the work of one major philosopher. Each student will make his own choice of the philosopher on whom he wishes to be examined and submit the choice for approval at the beginning of the seventh semester, together with a reading list of works by and about the man chosen. Admission to major standing requires two Freshman Exploratories, the social science or the art and music sequence, and PHL 201 (or PHL 204).

**PHL 201 Introduction to Philosophical Thinking**

Several problems within the scope of philosophical inquiry are intensively examined. Different problems are chosen each year, but typical examples are: the nature and grounds of political obligation; the possibility of demonstrating God's existence; grounds for belief in the evidence of the senses. The emphasis is on active critical and constructive philosophical thinking on the part of the students. Spring Semester. Prerequisites: Two Freshman Exploratories

**PHL 204, 205, 206 Introduction to Systematic Philosophy**

The development of systematic philosophical thought in the Western world from the age of pre-philosophical mythical and religious thinking in the Mediterranean region to the present time. The three terms are as follows: PHL 204, the classical Greco-Roman period, from Homer to Boethius (Fall Semester); PHL 205, the religious period, from St. Augustine to Leibniz (Winter Semester); PHL 206, the scientific period, from Francis Bacon to the Present (Spring Semester). Each term may be taken separately, although together they present a continuous development. Extensive readings in original writings of major philosophers.

Prerequisites: Two Freshman Exploratories

**PHL 250 Philosophies and Religions of Asia**

A study of the major religions of India, China, and Japan with emphasis on their philosophical significance. The course will cover Hinduism, Jainism, Confucianism, Taoism, and Buddhism (with special reference to *Ch'an* or *Zen*), and will deal with both the ancient traditions and some modern developments.

Prerequisite: One course in philosophy or consent of instructor.

**PHL 290 Special Readings (2 credits)**

Intensive study of a single major philosophical work of a restricted philosophical topic, conducted as a tutorial. Offered on demand, and may be repeated for credit.

**PHL 301, 302 Introduction to Logic**

The first semester deals with traditional theories of logic and language; concentrating on those of Aristotle and J. S. Mill. The second semester deals with the theories and problems of the last hundred years, including the development of a degree of facility with symbolic techniques.

Prerequisite: Two Freshman Exploratories or permission of instructor.

**PHL 317 Ethics**

The questions of right action, of duty and obligation, and of the best life for man are discussed, with the aid of readings in major examples of ethical analysis, from the time of the ancient Greeks to the present. An effort is made to evaluate conflicting ethical theories.

Prerequisites: Two Freshman Exploratories. PHL 201 is recommended.

**PHL 319 Esthetics**

The significance of the literary, visual, and musical arts for a philosophical understanding of man is developed through inquiry into the factors entering into the creating and the intelligent judgment of a work of art. Readings in works such as Aristotle's *Poetics*, Kant's *Critique of Esthetic Judgment*, R. G. Collingwood's *Principles of Art*, and Dewey's *Art as Experience*, plus a constant effort to keep philosophical principles in relation to actual art works.

Prerequisites: Two Freshman Exploratories, and UC 047 or UC 049. PHL 201 is recommended.

**PHL 321 Theories of Justice, Power, and Freedom**

The meanings of these three central concepts in political philosophy, together with several closely related concepts such as those of law, authority and the like, are examined and analyzed through intensive readings in classic writings of political philosophers and through study of especially crucial problems such as that of segregation. Fall Semester.

Prerequisites: Two Freshman Exploratories

### **PHL 325 Philosophy of Religion**

An examination of various approaches to religious faith and worship in the Western world, from the traditional arguments for a benevolent Deity to the theories of modern psychologists and anthropologists. Several of the great classics of religious literature—for example, the *Book of Job*, St. Augustine's *Confessions*, Pascal's *Pensees*—are read and discussed. The approaches of present-day existentialism and positivism to religion are considered. The course does not strive to produce or confirm any particular point of view other than that of enlightened interest.

Prerequisites: Two Freshman Exploratories. PHL 201 is recommended.

### **PHL 329 Philosophy of Science**

A study of philosophical problems related to scientific and mathematical thinking, such as determinism and indeterminism in physical events, the relation of theory to observation, and the ontological status of scientific entities. The course may be presented with attention to the historical development of science and specific case histories.

Prerequisite: UC 086 or 087, or one departmental course in the natural or social sciences.

### **PHL 341 Process Philosophy**

Since Hegel and Darwin, some of the greatest modern thinkers have constructed syntheses in which both nature and mind are understood as aspects of an all-inclusive evolutionary process. This course concentrates on three of these syntheses: those of Henri Bergson, John Dewey, and Alfred North Whitehead.

Prerequisites: Two Freshman Exploratories. PHL 201 or 206 is recommended.

### **PHL 355 Existentialism**

A study of the several types of modern existentialist philosophy, on the basis of readings in the works of Kierkegaard, Sartre, Camus, Jaspers, Heidegger, and Marcel. An attempt is made to remove misconceptions concerning existentialism, and to discover its positive contributions.

Prerequisites: Two Freshman Exploratories. PHL 201 or 206 is recommended.



**PHL 357 Contemporary Analytic Philosophy**

A study of the main forms of twentieth century analytical movements, beginning with the work of G. E. Moore, and with special emphasis on logical empiricism and linguistic analysis.

Prerequisites: Two Freshman Exploratories. PHL 201 or 206 is recommended.

**PHL 367 Ancient and Medieval Philosophers**

An intensive study of the works of one major philosopher of the ancient or the medieval period. The specific philosopher to be considered will vary from year to year. May be repeated for credit. Winter Semester.

Prerequisite: PHL 204 or permission of the instructor.

**PHL 383 Modern Philosophers**

An intensive study of the works of one major philosopher of the period from 1600 to the present. The specific philosopher to be considered will vary from year to year. May be repeated for credit. Fall Semester.

Prerequisite: PHL 206 or permission of the instructor.

**PHL 490 Philosophical Research**

The goal of the study of philosophy is the independent practice of philosophical inquiry. In this final phase of the program for philosophy majors, students have an opportunity to formulate philosophical questions and to progress toward carefully considered solutions. The research is carried on in consultation with and under the supervision of a staff member, and the results are embodied in a written paper.

Prerequisite: Major standing in philosophy.

## DEPARTMENT OF PHYSICS

### Professors:

Ralph C. Mobley, Chairman  
Robert M. Williamson

### Associate Professor:

John M. McKinley

### Assistant Professors:

Paul A. Tipler  
Libor J. Velinsky

### Instructor:

Bruce R. Danner

The Department of Physics offers a comprehensive program in basic physics leading to the B.A. degree. The curriculum provides a solid foundation in both classical and modern physics. Physics majors with a B.A. degree are qualified for graduate work in physics and related subjects, for research positions in government and industrial laboratories, or with additional courses in education, for secondary school teaching.

### *Requirements for the Liberal Arts Major in Physics*

- (a) PHY 151, 152, 158, 317, 318, 331, 341, 347, 348, 361, 371, 381; seven courses, five laboratories; 37 credits
- (b) CHM 114, 115, 117; two courses, one laboratory; 8 credits
- (c) MTH 154, 155, 254, plus one more; four courses; 16 credits
- (d) Seven University Courses; 28 credits
- (e) Completion of a second semester language course or placement beyond this level.
- (f) Two free electives; 8 credits
- (g) 124 credits

Admission to major standing requires 14 credits in physics, 8 credits in chemistry, and 8 credits in mathematics.

### *Requirements for the Secondary Teaching Major in Physics*

- (a) PHY 151, 152, 158, 317, 331, 341, 347, 348, 361, 371, 381; seven courses, four laboratories; 35 credits
- (b) CHM 114, 115, 117; two courses, one laboratory; 8 credits

- (c) MTH 154, 155, 254, plus one more; four courses; 16 credits
- (d) Seven general education courses; 28 credits
- (e) ED 244, 245, 428, 455; four courses; 20 credits
- (f) Completion of a second semester language course or placement beyond this level.
- (g) Two free electives; 8 credits
- (h) 124 hours

Admission to major standing requires 14 credits in physics, 8 credits in chemistry, and 8 credits in mathematics, and acceptance by the teacher education program.

### *Teaching Minor in Physics*

Twenty credits in Physics are required.

## LIBERAL ARTS MAJOR IN PHYSICS (Two and two-thirds year program)‡

|   |   |  |  |
|---|---|--|--|
| <b>Semester 1</b><br>Freshman<br>PHY 151<br>CHM 117<br>MTH 154<br>CHM 114 | <b>Semester 2</b><br>Exploratory Freshman<br>PHY 152<br>PHY 158<br>CHM 115<br>MTH 155 | <b>Semester 3</b><br>Exploratory<br>PHY 371<br>MTH 254<br>University Course<br>University Course | <b>Semester 4</b><br>PHY 317<br>PHY 331<br>PHY 361<br>University Course<br>University Course |
| <b>Semester 5</b><br>PHY 341<br>PHY 347<br>PHY 381<br>MTH 255<br>Language | <b>Semester 6</b><br>PHY 348<br>PHY 318<br>Language<br>University Course<br>*PHY 465  | <b>Semester 7</b><br>*PHY 400<br>*PHY 421<br>*PHY 472<br>Senior Colloquium<br>Elective           | <b>Semester 8</b><br>*PHY 400<br>*PHY 490<br>*PHY 482<br>*Elective<br>Elective               |

‡See the Physics Department for four year programs and the variations possible in the above program. NOTE: programs can be arranged so as to allow two University Courses in each of the first two semesters.

\*These courses are not required, but they are suggested for students planning to do graduate work.

## SECONDARY TEACHING MAJOR IN PHYSICS (Two and two-thirds year program)‡

|   |   |  |   |
|---|---|--|---|
| <b>Semester 1</b><br>Freshman<br>PHY 151<br>CHM 114<br>CHM 117<br>MTH 154 | <b>Semester 2</b><br>Exploratory Freshman<br>PHY 152<br>PHY 158<br>CHM 115<br>MTH 155 | <b>Semester 3</b><br>Exploratory<br>PHY 371<br>MTH 254<br>UC 054<br>University Course  | <b>Semester 4</b><br>ED 244<br>PHY 317<br>PHY 331<br>PHY 361<br>University Course |
| <b>Semester 5</b><br>ED 245<br>PHY 341<br>PHY 347<br>PHY 381<br>Language  | <b>Semester 6</b><br>*PHY 318<br>PHY 348<br>Language<br>Math<br>University Course     | <b>Semester 7</b><br>*PHY 400<br>*PHY 421<br>Senior Colloquium<br>Elective<br>Elective | <b>Semester 8</b><br>ED 428<br>ED 455   |

‡See the Physics Department for four year programs and the variations possible in the above program. NOTE: programs can be arranged so as to allow two University Courses in each of the first two semesters.

\*These courses are not required.

**PHY 151-152 Introductory Physics (four credits each)**

Mechanics, electricity and magnetism, wave motion, and optics for science, mathematics, and engineering science students.

Corequisite for PHY 151 is MTH 154

Corequisite for PHY 152 is MTH 155

**PHY 158 Introductory Physics Laboratory (2 credits)**

Prerequisite: PHY 151

**PHY 253 Introductory Physics (2 credits)**

Optics and introductory thermodynamics for engineering science students.

Prerequisites: PHY 152, MTH 155

**PHY 317-318 Intermediate Laboratory (2 credits each)**

Optics, atomic physics, and nuclear physics experiments, shop techniques, vacuum systems, error analysis.

Prerequisite: PHY 158

**PHY 331 Optics (three credits)**

Geometrical optics, optical instruments, wave theory of reflection refraction, interference, diffraction, and polarization of light.

Prerequisites: PHY 152, MTH 155

**PHY 341 Electronics (four credits)**

Circuit theory, vacuum tubes, transistors, power supplies, linear amplifiers, feedback, oscillators.

Prerequisites: PHY 152, PHY 158, MTH 155.

**PHY 347-348 Electronics Laboratory (2 credits each)**

A. C. circuits and electronics experiments.

Corequisite: PHY 341

**PHY 361 Mechanics I.**

Applications of Newton's laws to particles, systems of particles, oscillators, central forces, accelerated reference frames, and rigid bodies.

Prerequisites: PHY 152; MTH 258 (may be taken concurrently)

**PHY 371 Modern Physics**

Relativity, atomic physics, the experimental bases of quantum mechanics, and properties of nuclei.

Prerequisites: PHY 152, MTH 155

**PHY 381 Electricity and Magnetism I.**

The development of Maxwell's equations from the experimental laws of electricity and magnetism. Vector calculus, potential theory, boundary conditions on the electromagnetic field vectors, field energy, properties of dielectrics, conductors and magnetic materials.

Prerequisites: PHY 152, MTH 258

**PHY 400 Seminar (one credit per semester)**

**PHY 405 Special Topics**

Prerequisite: Permission of the department.

**PHY 417-418 Advanced Laboratory (2 credits each)**

Prerequisite: PHY 318

**PHY 421 Thermodynamics**

The zeroth, first and second laws of thermodynamics with applications to pure substances. Introduction to the kinetic theory of gases and to statistical mechanics.

Prerequisites: PHY 151, MTH 258

**PHY 472 Quantum Mechanics I.**

Principles of nonrelativistic quantum mechanics. Schrödinger wave equation, expectation values of energy, position, momentum and angular momentum operators, spin, perturbation theory, identical particles—with applications to atomic systems.

Prerequisites: PHY 361, MTH 259

**PHY 482 Electricity and Magnetism II.**

Multipole fields, solutions of Laplace and Poisson equations, electromagnetic waves in insulators and conductors, the derivation of the laws of optics from Maxwell's equations.

Prerequisites: PHY 381, MTH 259

**PHY 490 Independent Study and Research  
(two, four, six credits)**

Prerequisite: Permission of the department.

**PHY 542 Advanced Electronics**

Selected topics in the analysis and design of electronic circuits.

Prerequisite: PHY 341

**PHY 548 Advanced Electronics Laboratory (2 credits)**

Prerequisite: PHY 348

**PHY 562 Mechanics II.**

Methods of Lagrange and Hamilton, tensor algebra, rigid bodies in three dimensions, continuous media, and coupled systems.

Prerequisites: PHY 361, MTH 259

**PHY 573 Nuclear Physics**

The properties of ground and excited states of nuclei, nuclear reactions, fundamental particles, nuclear forces, interaction of particles and photons with matter, nuclear particle detectors.

Prerequisite: PHY 472

**PHY 574 Introduction to Solid State Physics**

An introduction to the thermal, electrical, and magnetic properties of solids, including the periodic structure, lattice dynamics, electron interactions and behavior, transport properties, the Fermi surface, and optical behavior, superconductivity.

**DEPARTMENT OF POLITICAL SCIENCE**

Professor:

Edward J. Heubel, Chairman

Associate Professors:

Sheldon Appleton

Roger H. Marz

Carl R. Vann

Assistant Professors:

Thomas W. Casstevens

William F. Sturner

Instructor:

Alan L. Seltzer

Political science courses offer a concentrated and systematic study of politics at all levels of government and in many different cultural and national settings. Policy-making, law, administration, international politics, foreign governments, and theories and philosophies of government are among the many topics included in these courses. The most general educational aim is to increase the student's awareness and deepen his understanding of the realm of politics and government. Political science majors prepare for careers in civil service, law, practical politics, and the teaching of government and social studies. The

liberal arts major in political science covers most of these objectives; for secondary teaching there is a social science major within which the prospective teacher can concentrate on political science courses.

*Requirements for the Liberal Arts Major in Political Science*

The major requires nine courses in political science including UC 052, P.S. 131, and PS 221. Admission to major standing requires successful completion of these three courses.

**LIBERAL ARTS MAJOR IN POLITICAL SCIENCE  
(A typical program)**

|   |  |  |   |
|---|--|--|---|
| <b>Semester 1</b><br>Freshman Exploratory<br>University Course<br>University Course<br>Foreign Language | <b>Semester 2</b><br>Freshman Exploratory<br>P.S. 131<br>University Course<br>Foreign Language | <b>Semester 3</b><br>POLITICAL SCIENCE<br>221<br>University Course<br>Foreign Language<br>Elective | <b>Semester 4</b><br>POLITICAL SCIENCE<br>University Course<br>Foreign Language<br>Elective |
| <b>Semester 5</b><br>POLITICAL SCIENCE<br>POLITICAL SCIENCE<br>University Course<br>Elective            | <b>Semester 6</b><br>POLITICAL SCIENCE<br>POLITICAL SCIENCE<br>University Course<br>Elective   | <b>Semester 7</b><br>POLITICAL SCIENCE<br>University Course<br>Elective<br>Elective                | <b>Semester 8</b><br>Senior Colloquium<br>POLITICAL SCIENCE<br>Elective<br>Elective         |

**PS 131 Foreign Politics**

Analysis of the politics and governmental systems of selected countries in the contemporary world; types chosen range from established constitutional democracies and totalitarian systems, to movements and regimes of new and developing nations.

**PS 205 Politics of the Local Community**

Study of state and local government, local political forces, trends in metropolitan and suburban politics, problems of planning in an age of urbanization.

Prerequisite: UC 052

**PS 213 World Politics**

Intensive interdisciplinary study of concepts and hypotheses basic to the understanding and analysis of relations among nations. The class engages in a mock U.N. exercise and in the analysis of a number of actual cases to gain experience in the application of the hypotheses studied.

Prerequisite: UC 052

**PS 221 Systematic Political Analysis**

Alternative approaches to the study of political events; how

to describe political events and how to compare them; how to design research to test whether the descriptions and comparisons are useful.

Prerequisite: UC 052

**PS 251 Public Administration**

Intensive study of government in action, with special attention to policy formulation, organization, personnel administration, supervision, co-ordination, administrative control and accountability.

Prerequisite: UC 052

**PS 271 American Political Thought**

The writings of prominent American thinkers and statesmen whose ideas have influenced the development of the American polity will be considered. Selected texts by European thinkers will also be examined with a view to their influence on America. (4 credits)

Prerequisite: UC 052 or permission of the instructor.

**PS 272, 273 Western Political Thought**

A study of the important texts in political thought, focusing on critical moments in the Western tradition, and including questions raised by the decline of Athenian democracy, the dawn of modern liberalism, the rise of democratic capitalism, and emergence of challenges to liberal democracy, such as romanticism, Marxism and some varieties of modern relativism.

**PS 277 International Communism**

The development of revolutionary socialism from early Marxism to the present day. The course analyzes the relevance of Marxism to a variety of contemporary revolutionary situations.

Prerequisite: PS 131

**PS 290 Political Science Laboratory**

From time to time collateral, independent work of various kinds will be offered to students in conjunction with regular departmental courses. These opportunities may be limited to students enrolled in particular courses and may be restricted to political science majors. Such work may be taken more than once. 2 credit hours.

Prerequisite: Permission of the instructor.



**PS 301 American Presidency and the Executive Process**

A study of presidential politics, decision making and leadership in the American political system.

Prerequisite: UC 052

**PS 302 Legislative Process and Public Policy**

A study of legislative behavior and decision-making, emphasizing the problems of public policy development in the American political system.

Prerequisite: UC 052

**PS 315 U. S. Foreign Policy**

Study of the foreign policy issues and challenges confronting the United States in the nuclear age, in the light of the historical evolution of American diplomacy, and of the limitations imposed upon foreign policy makers by public opinion and the exigencies of domestic politics.

Prerequisite: PS 213

**PS 331 The British Political System**

Analysis of British politics and the main features of the British constitution today; parties, parliament, and public policy are interpreted in the context of the British social and cultural setting.

Prerequisite: PS 131

**PS 335 Politics of Latin America**

Analysis of the political systems of Latin America and the historical, social, and economic factors underlying them. The major countries are studied intensively, and a comparative approach is used to examine the variations from democracy to dictatorship and the political instability that characterize the area.

Prerequisite: UC 052

**PS 336 U.S. - Latin American Relations**

Analysis of contemporary relations of the United States with the countries of Latin America. Relations with particular countries will be studied as well as the overall economic, military, and diplomatic aspects of our Latin American policy. The Inter-American system and regional groupings within Latin America will also be studied.

Prerequisite: PS 335

**PS 337 The Soviet Political System**

A descriptive analysis of the Soviet society as a political system: its origins, institutions and political behavior. Trends and developments in the system will be assessed, and comparisons with other political systems will be undertaken.

Prerequisite: PS 131.

**PS 338 Modern Chinese Politics**

An analysis of the rise of social movements in China after the breakdown of the traditional order; the emergence of the Nationalist and Communist regimes and the triumph of the Communists; the political processes of the Peoples' Republic, emphasizing the role of elites in policy formation, ideology, mass support and the exercise of central power.

Prerequisite: UC 062.

**PS 339 Sino-Soviet Relations**

The relations between the Chinese Peoples Republic and the USSR, emphasizing the reaction to the Russian experience by the leaders of China and the split between the USSR and the Peoples Republic.

Prerequisite: PS 337 or PS 338.

**PS 341 Law and Politics**

A broad survey of the relationship of law and legal systems to politics and political systems. The student will be exposed to the classic jurisprudential, historical, anthropological, and comparative treatments of the subject.

Prerequisite: UC 052

**PS 342 The American Legal System**

A study of the American legal system in relation to politics and the American political system. The emphasis will be upon the functioning of the United States Supreme Court as a legal and political instrument.

Prerequisite: UC 052

**PS 361 Political Parties**

The development of the concept of party in political research and political action; analysis of the growth and function of parties and party competition in modern societies.

Prerequisite: UC 052

**PS 365 Public Opinion**

A study of the formation, communication and change of the politically relevant opinions of individuals and groups in

modern societies, and of the ways in which these opinions lead to political actions.

Prerequisites: UC 052 and PS 221.

### **PS 381 Political Theory**

The role of theory in the study of politics; the use of formal models and systems theories; examination of the problems of developing a science of politics and its relationship to value and policy questions.

Prerequisites: PS 221, and either PS 271 or PS 272.

The department offers from time to time, seminar courses at the advanced level in which a topic or problem is studied in depth, and in which individual student research of a significant sort is presented for analysis and criticism. The seminar titles refer to the broad fields of political science within which the problem falls; the precise problems to be studied will be announced by the Department at the time the seminars are offered. Except for PS 490, each seminar receives 4 hours credit.

**PS 400, 401 Seminar in Public Policy**

**PS 410, 411 Seminar in World Politics**

**PS 420, 421 Seminar in Political Behavior**

**PS 430, 431 Seminar in the Comparative Study of Political Systems**

**PS 440, 441 Seminar in Public Law**

**PS 480, 481 Seminar in Political Theory**

**PS 490 Special Topics or Directed Research  
(2, 4 or 8 hours)**

Prerequisite: Consent of the Department.

## **DEPARTMENT OF PSYCHOLOGY**

Professors:

Harvey Burdick, Chairman  
David C. Beardslee  
Donald D. O'Dowd

Associate Professors:

Donald Hildum  
Irving Torgoff

Assistant Professors:

Kenneth H. Coffman  
Richard Kammann  
Aharon Kuperman  
David G. Lowy  
L. Crocker Peoples  
David W. Shantz  
Richard L. Sprott

Instructors:

Ralph J. Schillace

The psychology program is directed to the student who wishes a broad foundation in contemporary psychological science, with emphasis on both methods of study and interpretation of research.

*Requirements for the Liberal Arts Major in Psychology*

This major requires nine courses in psychology which must include: PSY 146, 351 or 352, 353, 361, and at least one course above the 300 level.

Admission to major standing requires successful completion of three courses in psychology including PSY 146.

A student who wishes to earn departmental honors must apply and be accepted into the honors program. The prerequisite for applying is 72 semester hours including PSY 146, 351 or 352, 353, and 361. Honors candidates will be required to take PSY 490 and 499.

**LIBERAL ARTS MAJOR IN PSYCHOLOGY**  
(A typical program)

|   |   |  |   |
|---|---|--|---|
| <b>Semester 1</b><br>Freshman Exploratory<br>University Course<br>University Course<br>Foreign Language | <b>Semester 2</b><br>Freshman Exploratory<br>University Course<br>University Course<br>Foreign Language | <b>Semester 3</b><br>PSYCHOLOGY 146<br>University Course<br>Foreign Language<br>Elective | <b>Semester 4</b><br>PSYCHOLOGY 361<br>PSYCHOLOGY<br>Foreign Language<br>Elective |
| <b>Semester 5</b><br>PSYCHOLOGY 351 or<br>352<br>PSYCHOLOGY<br>University Course<br>Elective            | <b>Semester 6</b><br>PSYCHOLOGY 353<br>PSYCHOLOGY<br>University Course<br>Elective                      | <b>Semester 7</b><br>PSYCHOLOGY<br>University Course<br>Elective<br>Elective             | <b>Semester 8</b><br>Senior Colloquium<br>PSYCHOLOGY<br>Elective<br>Elective      |

**PSY 146 Foundations of Contemporary Psychology**

An introduction both to basic principles and the most recent formulations in psychology. Topics include the central psychological processes of attending, perceiving, learning, thinking, remembering, and the development and organization of personality.

**PSY 241 Individual Differences**

A study of intellectual, motivational and personality differences associated with age, social roles, sex, ethnic and racial groups and social class.

Prerequisite: UC 054 or PSY 146

**PSY 251 Abnormal Psychology**

The psychodynamics of abnormal behavior, clinical types, methods of investigation, and principles of psycho-therapy.

Prerequisite: UC 054 or PSY 146

**PSY 261 Foundation of Organizational Behavior**

Empirical and theoretical approaches to understanding human behavior in complex organizations. (Normally offered in the Winter Semester.)

Prerequisite: UC 054 or PSY 146

**PSY 271 Child Development**

Theory and principles of the development of the child from birth to puberty. Selected topics include: maturational processes, learning and motivation, intelligence, the self concept and child rearing practices.

Prerequisite: UC 054 or PSY 146

**PSY 351 Experimental Psychology: Learning, Memory and Thinking**

Theories and research methods on such topics as conditioning, habit formation, perceptual-motor skills, verbal learning and problem-solving. Weekly laboratory.

Prerequisites: PSY 146 and 361; PSY 361 may be taken concurrently.

**PSY 352 Experimental Psychology: Sensation and Perception**

Theories and research methods on basic sensory systems. Topics include: modern psychophysics, color vision, and spatial organization. Weekly laboratory.

Prerequisite: PSY 146 and 361; PSY 361 may be taken concurrently.

**PSY 353 Motivation and Personality**

The study of nature of motivation and emotion, and the organization of personality, with emphasis on research approaches and methods of measurement.

Prerequisites: Two courses in psychology, including PSY 146.

**PSY 361 Statistics and Research Design**

A survey of the principal statistical procedures commonly employed in research in the social sciences. Emphasis is given to the design of experimental studies, problems of sampling and control of variables, and psychological measurement. Two years of high school mathematics are recommended.

**PSY 363 Research Projects**

A course providing opportunity for individual projects of research in the fields of perception, learning, motivation, personality, or social psychology.

Prerequisite: Three courses in psychology, including PSY 361, and permission of the Department.

**PSY 421 Advanced Experimental Psychology**

Empirical and theoretical investigation of issues in learning, perception, thinking, physiological psychology, and animal behavior, with research projects.

Prerequisites: PSY 351 or 352, and 361.

**PSY 423 Advanced Social Psychology**

Problems of human social behavior are approached through study of the research literature and by carrying out further research.

Prerequisites: Three courses in psychology.

**PSY 427 Human Personality**

The development and functioning of the adult person, with emphasis on experimental and clinical approaches to understanding.

Prerequisites: Four courses in psychology including PSY 353 and 361

**PSY 431 Historical and Contemporary Issues**

Major theoretical issues in psychology, approached both historically and philosophically.

Prerequisites: Three courses in psychology.

**PSY 435 Psychology of Communication**

Selected topics from among the following: the nature and origin of language, structural syntactics and semantics and

their psychological significance, translation, persuasion, mass communication, including its sources, determinants, organization, messages, audience, and effects.

Prerequisites: Three courses in psychology.

**PSY 490 Honors Research**

Individual research projects under supervision of a member of the Department.

Prerequisite: Acceptance into Honors Program.

**PSY 499 Honors Seminar**

Critical study of theoretical issues involved in selected problems. (Offered only in the Fall semester.)

Prerequisite: Acceptance into Honors Program.

**PSY 510 Developmental Psychology**

Description and evaluation of the principles and theories of development from birth to maturity. Maturation processes, learning, and emotional disturbances will be some of the issues considered.

Prerequisite: Permission of the instructor or acceptance into graduate program.

**PSY 520 Tests and Measurement**

Theories of measurement and evaluation. Construction and examination of tests of ability, achievement, interests, and special aptitudes. Objective tests of personality.

Prerequisites: Four courses in psychology including PSY 353 and 361, or acceptance into graduate program.

**PSY 530 Advanced Abnormal**

Review of the major neurotic, psychotic, psychosomatic and organic syndromes. Current issues and research in psychopathology.

Prerequisites: PSY 251 and permission of instructor or acceptance into graduate program.

**PSY 540 Behavior Theory and Learning**

Conditioning, reinforcement, punishment, drives and transfer of training will be studied in their relationship to such complex human behavior as education, psychotherapy and the development of motives.

Prerequisites: Five courses in psychology including PSY 351, 353 and 361 or acceptance into masters program.

**PSY 595 Special Topics**

Exploration of current findings and theory in an area of special interest.

Prerequisites: Four courses in psychology and permission of instructor.

**PSY 610 Pro-Seminar I**

Designed for masters candidates. Review and exploration of current research in personality and learning. (offered only in the Fall semester)

Prerequisite: Acceptance into masters program.

**PSY 611 Pro-Seminar II**

Designed for masters candidates. Experimental design and review of theories and research in social psychology. (offered only in the winter semester)

Prerequisite: Acceptance into masters program.

**PSY 620 Individual Testing**

Designed for masters candidates. Theory of intelligence testing. Administration and interpretation of Stanford-Benet and Wechsler tests.

Prerequisite: Acceptance into masters program.

**PSY 621 Projective Tests**

Designed for masters candidates. Theory, demonstration and practical training in the use of projective techniques with special emphasis on the Rorschach and the Thematic Apperception Test.

Prerequisite: Acceptance into masters program.

**PSY 630 Clinical Psychology**

The nature and scope of clinical psychology and the role of the clinician. Assessment and behavior modification will be emphasized.

Prerequisite: Acceptance into masters program.

**PSY 680 Practicum I**

Practical experience in the student's area of specialized technical training. May be in one of the following settings: schools, state hospital, courts, psychological service center, social work agency, college teaching, etc. (approximately 200 hours)

Prerequisite: Admission to candidacy in the masters program.



**PSY 681 Practicum II**

Continuation of Practicum I at a more advanced level (approximately 200 hours).

Prerequisite: PSY 680

**PSY 690 Research Thesis**

Individual research project related to the student's area of concentration.

Prerequisite: Admission to candidacy in the masters program.

**DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY**

Professor:

Jesse R. Pitts

Associate Professors:

David Booth (Chairman)

Leonard Kasdan

George Rawick

Instructors:

Saghir Ahmad

Emil Oestereicher

Carleton Smith

The department seeks to provide all students with a sound understanding of the basic contributions and points of view of sociology and anthropology. The curriculum acquaints students with the more important and relevant theoretical and research developments in sociology and anthropology. This is done from a cross-cultural perspective wherever possible.

Core curricula help to prepare students for graduate school. Students who do not plan to become professional social scientists will find the curriculum useful from a personal and a professional viewpoint. Departmental courses may be excellent preparation for a professional career in education, engineering, city management, business administration, urban planning, etc.

The department offers a major in *Sociology* and *Sociology and Anthropology*. Freshmen and sophomores who plan to major in *Sociology* are encouraged to take UC 058, UC 054, and at least two courses in a related social science (history, political science, psychology, and economics) before they enroll for the sociology core sequence (Sociology 300, 301, 303, and 304). Students may elect a major in sociology after completing two Freshman Exploratories, UC 058, UC 054, and either Sociology 300 or Sociology 301. To qualify for a degree in sociology, a student must have satisfactory grades in UC 058, UC 054, two courses in another social science discipline, the four core sociology courses (Sociology 300, 301, 303, and 304), and two elective courses in sociology or anthropology. If a student has serious interests in a professional career in the social sciences, it would be wise to take additional courses in calculus, statistics and/or computer programming.

Students who major in *Sociology and Anthropology* will take Anthropology 101 and 102, Anthropology 351 and two additional anthropology courses: an Area Studies course and a topical course (e.g., Anthropology 201, 261). Majors in sociology and anthropology will also take the core sociology courses (Sociology 300, 301, 303, and 304).

Students may plan individualized programs with departmental approval. An Honors Program is open to students who show unusual potential for achievement. Such students may write a senior thesis under faculty direction.

Programs in Secondary Education and Area Studies can be designed which include work in sociology and anthropology. Note the curriculum in Secondary Education with a major in the social studies (page 195 of this catalog). All sociology majors should realize that an undergraduate degree in sociology is *by itself* inappropriate training for most occupations. However, training in sociology can enrich preparation for other professions: city planning, social work, city management, personnel management, and market research. Students are encouraged to discuss the relationship between their academic work in sociology and their career objectives with members of the department and the Placement Office of the University.

## LIBERAL ARTS MAJOR IN SOCIOLOGY (A Typical Program)

**Semester 1**  
Freshman Exploratory  
University Course  
University Course  
Foreign Language

**Semester 2**  
UC 058  
Freshman Exploratory  
University Course  
Foreign Language

**Semester 3**  
SOCIOLOGY 300  
Social Science\*  
UC 054  
Foreign Language

**Semester 4**  
SOCIOLOGY 301  
Social Science\*  
Foreign Language  
Elective

**Semester 5**  
SOCIOLOGY 303  
University Course  
Elective\*\*  
Elective

**Semester 6**  
SOCIOLOGY 304  
University Course  
Elective  
Elective

**Semester 7**  
SOC. or AN. Elective  
University Course  
Elective  
Elective

**Semester 8**  
SOC. or AN. Elective  
SOCIOLOGY 490  
Senior Colloquium  
Elective

\*Could be any course or course sequence in history, political science, economics or psychology as approved by Sociology-Anthropology Dept.

\*\*Students who plan to do research in social science should consider courses in mathematics such as MTH 125.

### ANTHROPOLOGY

#### **AN 101 Introduction to Anthropology**

A survey of the biological and cultural career of man. The principles of biological evolution applied to the fossil record as well as to the living varieties of man. The nature and role of language in human culture. The development of early prehistoric cultures and early civilizations.

#### **AN 102 Cultural and Social Anthropology**

An introduction to the methods and theories of cultural and social anthropology. Analysis of institutions (religious, economic, familial, political) and their interrelationships among a number of cultures around the world.

#### **AN 201 Peasant Society and Culture**

The analysis and description of agricultural and artisan peoples living a preliterate and preindustrial existence. They will be examined in terms of their modes of articulation with the larger societies of which they are parts, as well as in terms of their internal organization. The perspective will be comparative focusing on political and religious institutions as well as the economic.

Prerequisite: AN 102 or Permission of Instructor.

**AN 261 A Cultural Survey of Childhood and Adolescence**

This course will deal with an analysis of child rearing practices throughout literate (U.S., France, Soviet Russia) and non-literate societies, and use historical references as well as ethnological ones. The sub-cultures and roles of adolescent peer groups in various societies are discussed.

Prerequisite: Permission of Instructor.

**AN 300 Social Stratification in Cross-Cultural Perspective**

A course which examines the concepts of class, caste, and race in terms of social conflict and social integration. Students will study these problems in a cross-cultural perspective.

Prerequisite: AN 102 or Permission of Instructor.

**AN 301 Peoples and Culture of the Near East**

The culture history and processes underlying the present day cultures of the area. Attention will be paid to the student developing an understanding of the three social types found within the area: Bedouin, Villagers, and City dwellers. Present day processes of change will be discussed.

Prerequisite: Permission of Instructor.

**AN 351 Social Organization**

The comparative study of family and kinship, social class and caste, associations, and political organization, with emphasis on non-European societies. Theories accounting for cultural differences in social organization are considered.

Prerequisite: UC 058 or AN 102 plus Permission of Instructor.

**AN 480 Independent Study and Research**

A tutorial course in which the student will pursue a course or reading and discussion with the instructor.

Prerequisite: Permission of Instructor.

**AN 490 Current Problems in Anthropology**

The department offers seminar courses from time to time at an advanced level in which a topic or problem is studied in depth. Each seminar requires students to do independent reading, writing, or research. Seminar titles refer to broad fields of anthropology and sociology within which a problem falls. The precise problems to be studied will be announced by the department at the time the seminars are offered. This course may be taken more than once.

Prerequisite: Permission of Instructor.

## **SOCIOLOGY**

### **SOC 201 Population Theory and Problems**

This course will provide an historical analysis of world population growth, focusing upon the relationship between population size, population policy, and social and economic development.

Prerequisite: UC 058 or Permission of Instructor.

### **SOC 221 Sociology of Crime and Punishment**

A study of the various forms of deviance from illness and juvenile delinquency to habitual crime with an analysis of sociological theories developed to explain the incidence of deviance. A study of modes of control from hospitals to penitentiaries.

Prerequisite: UC 058 or Permission of Instructor.

### **SOC 231 Racial and Cultural Relations**

A study of racial, national, and religious groups, particularly in the United States, with an emphasis on their historical development, special problems of adjustment and assimilation, and specific present-day problems and trends.

Prerequisite: SOC 300 or Permission of Instructor.

### **SOC 255 Industrial Sociology**

A study of the relationship between industrial and business organizations and the community; the history of industrial sociology; the study of occupations; the social structure of business and industrial organizations, labor unions, and informal work groups; and the character of occupational life in America.

Prerequisite: SOC 300 or Permission of Instructor.

### **SOC 300 Social Stratification in Cross-Cultural Perspective**

A course which examines the concepts of class, caste, and race in terms of social conflict and social integration. Students will study these problems in a cross-cultural perspective.

Prerequisite: UC 058 or Permission of Instructor.

### **SOC 301 Sociological Theory**

A study of the nature of sociological inquiry and theory. Readings will be selected from current and classic theorists. Students should take this course before electing Sociology 303.

Prerequisite: SOC 300 or Permission of Instructor.

**SOC 303 Social Research (Surveys)**

A comprehensive survey of sociological research methods with emphasis upon survey research. Includes units on research design, statistics, and data analysis. Requires participation in a research project.

Prerequisite: UC 058 and SOC 300 or Permission of Instructor.

**SOC 304 Social Research (Community Studies)**

Examination of specialized research methods with emphasis upon community studies. Includes units on statistics, computer programming and report writing. Requires participation in a research project.

Prerequisite: SOC 303.

**SOC 305 Sociology of Religion**

An examination of the interrelationships between religious phenomena, social structure, and personal behavior. The relevance of cultists movements to certain social strains is studied.

Prerequisite: Core courses or Permission of Instructor.

**SOC 335 The Family**

A comparative and historical treatment of the background of contemporary problems of this institution. Functions, forms, and processes are discussed.

Prerequisite: Core courses or Permission of Instructor.

**SOC 341 Social Change**

The prediction and explanation of social changes in society. Special attention is given to such mechanisms of change as crowds, publics, mass movements, and social movements. Implications and research findings for social action are discussed.

Prerequisite: Core courses or Permission of Instructor.

**SOC 351 Social Organization**

The comparative study of family and kinship, social class and caste, associations, and political organization, with emphasis on non-European societies. Theories accounting for cultural differences in social organization are considered.

Prerequisite: UC 058 or AN 102 plus Permission of Instructor.

**SOC 355 Sociology of Occupations and Professions**

An analysis of the structure of major occupations and especially of the major professions, in terms of their publics, their mandates, their clients, and the career lines they offer. Comparisons between "incomplete professions" such as nursing, undertaking, and full-fledged professions.

Prerequisite: SOC 300 or Permission of Instructor.

**SOC 360 Political Sociology**

An analysis of the sociological factors which influence the distribution of power within a society. Political communication, the maintenance of consensus, the process of revolution, the structure of political parties, the emergence of new states will be studied with emphasis that will vary according to the research interest of the instructor.

Prerequisite: UC 058 or Permission of Instructor.

**SOC 365 Sociology of Education**

The structure of educational institutions in the U. S. as compared with other societies. The teacher's role in American society, the peer group, the drop-out, and the first generation college student.

Prerequisite: SOC 300 or Permission of Instructor.

**SOC 380 Sociology of Bureaucracy**

A study of bureaucratic forms of organization. Systematic study of theories of bureaucracy and theories of organizational change.

Prerequisite: Core courses or Permission of Instructor.

**SOC 390 American Society**

A survey of the culture and social structure of American society. The course will examine American patterns of kinship, family structure, and social stratification.

Prerequisite: SOC 300 or Permission of Instructor.

**SOC 391 The Structure of Soviet Society**

Analysis of the cultural background of Soviet ideology and the structure of European societies. Special emphasis is put upon the way Soviet citizens actually live, the structure of the collective farm and of the factories. The roles of the Communist Party member, of the intellectual, of the indus-

trial manager, will be particularly stressed. The forces making for change in Soviet society are analyzed.

Prerequisite: SOC 300 and Permission of Instructor.

**SOC 402 European Sociological Theory**

A critical examination of the contributions of European thinkers to the body of sociological theory, with special emphasis upon Marx, Spencer, Durkheim, Simmel, Pareto, Weber and Freud.

Prerequisite: Permission of Instructor.

**SOC 480 Independent Study and Research**

A tutorial course in which the student will pursue a course of reading and discussion with the instructor.

Prerequisite: Permission of Instructor.

**SOC 490 Special Topics in Sociology**

The department offers seminar courses from time to time at an advanced level in which a topic or problem is studied in depth. Each seminar requires students to do independent reading, writing, or research. This course may be taken more than once.

Prerequisite: Permission of Instructor.

**SOC 500 Sociology of Education**

A course of particular importance to teachers and school and college administrators. Examines social and cultural influences on school policies. Special emphasis on bureaucratic theory. Studies of organizational change efforts in schools. Course open to graduate students and juniors and seniors.

Prerequisite: Core courses or Permission of Instructor.



# SCHOOL OF EDUCATION

L. J. HETENYI, Dean

R. E. RIGHTER, Assistant Dean

## TEACHING FACULTY

### Department of Teacher Education

|                     |                            |
|---------------------|----------------------------|
| DAVID C. BRICKER    | <i>Instructor</i>          |
| MARC BRIOD          | <i>Instructor</i>          |
| HAROLD C. CAFONE    | <i>Assistant Professor</i> |
| F. JAMES CLATWORTHY | <i>Instructor</i>          |
| THOMAS DUTTON       | <i>Associate Professor</i> |
| HARRY T. HAHN       | <i>Professor</i>           |
| LASZLO J. HETENYI   | <i>Professor</i>           |
| JOHN H. LANGER      | <i>Assistant Professor</i> |
| RODERIC E. RIGHTER  | <i>Assistant Professor</i> |
| FRED W. SMITH       | <i>Assistant Professor</i> |

### College of Arts and Sciences

|                   |  |
|-------------------|--|
| MELVIN CHERNO     | <i>Associate Professor of History</i>    |
| PETER G. EVARTS   | <i>Assistant Professor of English</i>    |
| WILLIAM C. FORBES | <i>Associate Professor of Biology</i>    |
| EDWARD J. HEUBEL  | <i>Professor of Political Science</i>    |
| DONALD C. HILDUM  | <i>Associate Professor of Psychology</i> |
| DONALD IODICE     | <i>Assistant Professor of French</i>     |
| G. PHILIP JOHNSON | <i>Professor of Mathematics</i>          |
| DAVID G. LOWY     | <i>Assistant Professor of Psychology</i> |
| JACK R. MOELLER   | <i>Associate Professor of German</i>     |
| ROSS A. NORRIS    | <i>Assistant Professor of Art</i>        |
| WILLIAM SCHWAB    | <i>Professor of English</i>              |
| S. BERNARD THOMAS | <i>Assistant Professor of History</i>    |

The School of Education is a genuinely inter-disciplinary body. As the faculty roster indicates, staff members from a great variety of departments of the university contribute their talents to the education of teachers. Undergraduates all work for the Bachelor of Arts degree and are majors in a department or inter-departmental group of the College of Arts and Sciences. Graduate students in secondary teaching fields are sponsored jointly by the School of Education and the College of Arts and Sciences for their degrees, while those in elementary specializations are sponsored by the School of Education alone. In both programs the university awards the Master of Arts in Teaching (M.A.T.) degree.

### *The Undergraduate Programs*

Prospective elementary and secondary teachers may pursue a variety of programs and be sponsored for teaching certificates in the State of Michigan. Certification in this state usually suffices for or facilitates the obtaining of teaching certificates in other states.

The aim of all teacher education programs at Oakland is to develop graduates who are both broadly educated and competently prepared for their specialized duties. Prospective teachers take the liberal arts and science courses required of all students, and on this framework they build one of a variety of majors. The Teacher Education Department offers professional education courses, but the student's major and minor subjects are taught by the liberal arts and sciences departments.

Teacher preparation at Oakland has some unusual aspects. First and foremost, the inter-disciplinary approach assures that students receive instruction from a great variety of departments and participate on an equal footing with liberal arts students in the various major fields. A second unusual feature assures each prospective teacher at least two extended field experiences in public schools. In the sophomore year students are assigned as observers in nearby schools for two weekly periods. Thus, early exposure enables them to test their career choices realistically before a large portion of their college program is invested. In the senior year a ten-week teaching internship completes the training period with a full-time assignment in public school classrooms. The internship provides a transition to professional duties with full assistance by University and school staffs. Since

both observation and internship are accompanied by weekly seminars, discussion with professors and fellow students provide constant integration between theoretical and practical phases of the program.

All undergraduate teaching majors must take Education 244, 245, 455, and either Education 428 (Secondary) or Education 433 (Elementary).

### *Secondary Teaching Major*

Prospective secondary school teachers have a choice of any one of thirteen teaching majors. Consult the section of the catalog appropriate to the fields of concentration for specific courses and requirements for major standing.

|           |              |                |              |
|-----------|--------------|----------------|--------------|
| Biology   | (See p. 72)  | Mathematics    | (See p. 109) |
| Chemistry | (See p. 78)  | Music          | (See p. 135) |
| English   | (See p. 91)  | Physics        | (See p. 144) |
| French    | (See p. 118) | Russian        | (See p. 118) |
| German    | (See p. 118) | Spanish        | (See p. 118) |
| History   | (See p. 100) | Social Studies | (See p. 195) |
| Latin     | (See p. 83)  |                |              |

Eight teaching minors are available to the prospective secondary school teacher:

|           |             |                |              |
|-----------|-------------|----------------|--------------|
| Art       | (See p. 66) | History        | (See p. 100) |
| Biology   | (See p. 72) | Mathematics    | (See p. 109) |
| Chemistry | (See p. 78) | Physics        | (See p. 145) |
| English   | (See p. 92) | Social Studies | (See p. 195) |

### *Elementary Teaching Majors*

Prospective elementary school teachers must take a common core program and choose an area for major *and* another for minor concentration. Students may concentrate in two major fields (instead of one major and one minor), but they *may not select a single area for both major and minor concentrations*. The core program, plus the concentrations complete all university course requirements, but they do not normally yield sufficient credits for graduation. To reach the minimum graduation requirement of 124 credits, students, in consultation with their advisers, must round out their program with electives.

## The Core Program for Prospective Elementary Teachers

|                                      |               |
|--------------------------------------|---------------|
| Freshmen Exploratories .....         | 8 credits     |
| Foreign Language .....               | 8 credits     |
| Psychology (UC 054 or PSY 146) ..... | 4 credits     |
| Art 147 .....                        | 4 credits     |
| Music 149 .....                      | 4 credits     |
| Mathematics 314 .....                | 4 credits     |
| Mathematics 315-316* .....           | 8 credits*    |
| Science 305 .....                    | 4 credits     |
| Area Studies .....                   | 4 credits     |
| UC Literature .....                  | 4 credits     |
| UC Social Science .....              | 4 credits     |
| Senior Colloquium .....              | 4 credits     |
| Education 244-245 .....              | 8 credits     |
| Education 331 .....                  | 4 credits     |
| Education 433-455 .....              | 12 credits    |
| Total .....                          | 76-84 credits |

\*Not required of students in the Foreign Language Major Concentration.

### Major Concentrations

#### *History/Social Science*

|   |              |            |
|---|--------------|------------|
| Psychology (UC 054 or Psy 146) {  | From the     | 4 credits  |
| Area Studies {  | Core Program | 4 credits  |
| UC Social Studies {   |              | 4 credits  |
| History 214-215   |              | 8 credits  |
| Additional courses in History, Social Science, Geography,<br>Area Studies |              |            |
|   |              | 16 credits |
|   | (Total)      | 36 credits |

(Including those courses in Freshman Exploratories and Senior Colloquium applicable to this concentration)

Admission to major standing requires that the student have completed 56 credits, be in academic good standing, have attained a 2.00 average in Freshman Exploratories (2), Psychology, ED 244-245, three additional courses in the Core and/or Concentration, and have received approval of the School of Education.

#### *Foreign Language*

|  |                       |            |
|--|-----------------------|------------|
| Foreign Language   | From the Core Program | 8 credits  |
| Additional courses in same language offered in fulfillment of Core requirement |                       |            |
|  |                       | 24 credits |
|  | (Total)               | 32 credits |

(Including those courses in Freshman Exploratories and Senior Colloquium applicable to this concentration)

Admission to major standing requires that the student have completed 56 credits, be in academic good standing, have attained a 2.00 average in Freshman Exploratories (2), Psychology, ED 244-245, three approved courses in a single language, and have obtained approval of both the Department of Modern Languages and the School of Education.

### *Language Arts*

|   |                            |            |
|---|----------------------------|------------|
| Foreign Language  | } From the<br>Core Program | 8 credits  |
| UC Literature   |                            | 4 credits  |
| English 276   |                            | 4 credits  |
| Additional courses in English, Speech, Foreign Language |                            | 20 credits |
|   | (Total)                    | 36 credits |

(Including those courses in Freshman Exploratories and Senior Colloquium applicable to this concentration)

Admission to major standing requires that the student have completed 56 credits, be in academic good standing, have attained a 2.00 average in Freshman Exploratories (2), Psychology, ED 244-245, three additional courses in the Core and/or Concentration, and have received approval of the School of Education.

### *Science/Mathematics*

|  |                            |            |
|--|----------------------------|------------|
| Mathematics 314-315-316  | } From the<br>Core Program | 12 credits |
| Science 305  |                            | 4 credits  |
| Additional courses in Science and Mathematics approved by the Committee on Science and Mathematics |                            | 20 credits |
|  | (Total)                    | 36 credits |

(Including those courses in Freshman Exploratories and Senior Colloquium applicable to this concentration)

Admission to major standing requires that the student have completed 56 credits, be in academic good standing, have attained a 2.00 average in Freshman Exploratories (2), Psychology, ED 244, two approved courses in mathematics or chemistry, two additional courses in the Core and/or Concentration, and have obtained the approval of both the Committee on Science and Mathematics and the School of Education.

### **Minor Concentrations**

#### *History/Social Science*

|  |                            |            |
|--|----------------------------|------------|
| Psychology (UC 054 or Psy 146)   | } From the<br>Core Program | 4 credits  |
| Area Studies   |                            | 4 credits  |
| UC Social Science  |                            | 4 credits  |
| History 214-215  |                            | 8 credits  |
| Additional courses in History, Social Science, Geography, Area Studies |                            | 4 credits  |
|  | (Total)                    | 24 credits |

(Including those courses in Freshman Exploratories and Senior Colloquium applicable to this concentration)

#### *Science/Mathematics*

|  |                            |            |
|--|----------------------------|------------|
| Mathematics 314-315-316                          | } From the<br>Core Program | 12 credits |
| Science 305                                      |                            | 4 credits  |
| Additional courses in Science and/or Mathematics |                            | 8 credits  |
|  | (Total)                    | 24 credits |

(Including those courses in Freshman Exploratories and Senior Colloquium applicable to this concentration)

*Language Arts*

|  |            |                  |
|--|------------|------------------|
| Foreign Language   | } From the | 8 credits        |
| UC Literature  |            | Core Program     |
| English 276  |            | 4 credits        |
| Additional courses in English, Speech and Foreign Language |            | <u>8 credits</u> |
|  | (Total)    | 24 credits       |

(Including those courses in Freshman Exploratories and Senior Colloquium applicable to this concentration)

*Sponsorship for Michigan Teacher Certification*

The State Department of Education certifies teachers in Michigan. It issues provisional certification to candidates deemed qualified by colleges and universities. This Provisional Certificate can be converted to a Permanent Certificate after a period of teaching and additional studies. Oakland University sponsors its graduates for the Provisional Elementary and the Provisional Secondary Certificates if the following requirements are met:

1. Completion of the University baccalaureate with a teaching major and one appropriate minor.
2. An Internship grade of 2.5 or better.
3. Demonstrated proficiency in the use of English. The criteria of acceptability may be ascertained by consulting the School of Education Office. Students should satisfy this requirement before the senior year to allow time to remove deficiencies.

NOTE: Students who expect to teach in a state other than Michigan should ascertain what requirements beyond those of Michigan that state demands. It is the responsibility of the student to plan his program accordingly.

**The Graduate Programs**

Oakland University currently offers programs leading to the M.A.T. degree in English and Mathematics for secondary teachers. Additional programs, in such fields as History, Social Science, French, etc., may be available at a future date. Courses of study leading to the M.A.T. degree in Elementary Education are now available for general classroom teachers and for specialists in Reading Instruction. Additional specialized degrees, in Counselling and Guidance, Special Education, Administration, and for School Diagnosticians, may be instituted in the future. For details consult the Graduate Bulletin.

### *Certification Programs for Graduates*

For graduates of accredited institutions who wish to be certificated as teachers, Oakland University makes available programs in all majors offered by the University. Those seeking sponsorship for certification must be admitted to the University through regular procedures and must then apply to the School of Education for preparation of a certification program. This program will be prepared in consultation with the departments concerned and must be approved by them as well as the School of Education. Successful completion of such a program leads to sponsorship by Oakland University for the appropriate Michigan Provisional Certificate.

### *Course Descriptions*

#### **ED 244 Social and Philosophical Issues in Education**

Education is treated both as a social phenomenon and as an embodiment of philosophic commitments. Basic concepts studied in the social sciences and philosophy are examined with special attention to their pertinence to education. Such questions as the nature of reality, knowledge, and values are examined from widely differing points of view in order to analyze controversial issues in theory and practice.

Prerequisite: Two Freshman Exploratories.

#### **ED 245 Psychological and Field Studies in Education**

Psychological factors involved in learning and development are examined in lectures, class discussions, and extensive field observations in schools.

Prerequisites: ED 244 and one course in psychology.

Application must be filed early in the semester preceding registration for this course.

#### **ED 331 Teaching of Reading**

Intensive preparation for the teaching of reading skills in the elementary grades. Identification of reading readiness, problems of program construction and a variety of teaching methods are among the topics of the course.

Prerequisite: ED 245

#### **ED 428 Teaching of the Major Field**

Content and methodology appropriate to the student's major field. Organization of programs and courses, bibliography of

the field, and techniques of instruction receive special emphasis.

Prerequisites: ED 245, major standing, and permission of the student's major department.

### **ED 433 Teaching in the Elementary School**

The content and methodology of instruction in the elementary school. It is designed to supplement specialized courses in the various teaching fields.

Prerequisites: ED 245, major standing, and permission of the School of Education.

### **ED 455 Internship (8 credits)**

Supervised teaching in the public schools. Students spend approximately fifty days in public school classrooms and participate in such further activities as a supervising teacher may direct. The course includes a seminar dealing with problems of instruction.

Prerequisites: ED 245, major standing, concurrent registration in ED 428 or 433, and permission of both the student's major department and the School of Education. Application must be filed early in the semester preceding internship.

NOTE: Since the internship requires full-time work for ten weeks, students should plan to complete all courses with the exception of TEACHING OF THE MAJOR FIELD (ED 428 or ED 433) no later than the seventh semester. In some cases it may be possible to take one additional course during this semester, but generally such will not be the case. Arrangements for housing during internship should be made in consultation with the University Housing Office.

### **ED 490 Independent Study and Research**

A program of directed individual reading and research.

Prerequisite: Permission of the Department of Teacher Education.

### **ED 497 Apprentice College Teaching (2 or 4 credits)**

An elective course open to any well-qualified upperclassman who wins consent of a faculty member in his major field to assist in presenting a regular college course to underclassmen. The apprentice should be capable of assuming *limited* classroom responsibility.



**ED 509 The School and the Disadvantaged Child (2 credits)**

A study of the difficulties and opportunities arising in the schooling of children from disadvantaged home environments. The course will concern itself with such topics as: clashes between values in school and home environments, communication across sub-cultural barriers, problems of motivation, etc.

Prerequisite: Permission of the instructor.

**ED 531 Current Trends in the Teaching of Reading (3 credits)**

An intensive examination of current instructional practices, problems, and research in the teaching of reading. Prevailing trends in reading instruction will be evaluated in light of cumulative research findings concerning the development of reading skills.

Prerequisite: Admission to course in any graduate program or permission of the department.

**ED 532 Teaching Reading in the Primary Grades (4 credits)**

This course is designed to examine principles, practices and research related to early reading instruction. It will include an analysis of the relationship of the various language arts to reading skills and place emphasis upon the developmental skills of pupils starting with kindergarten.

Prerequisite: Admission to course in any graduate program or permission of the department.

**ED 533 Teaching Reading in the Upper Grades (4 credits)**

This course is designed to examine the principles, practices and research related to the teaching of reading in grades four and higher. Emphasis will be placed upon the developmental reading skills in a reading program geared to the individual needs of pupils. Particular emphasis will be placed upon reading in the content areas.

Prerequisite: Admission to course in any graduate program or permission of the department.

**ED 534 Language Arts Instruction in the Elementary Schools**

This course is designed to provide a scholarly examination of research findings, materials, and procedures for the development of spelling, composition, speaking, and listening skills in children. Discussions will center on those areas of the curriculum, which directly influence language development

and will demonstrate how the coordinated language arts approach and the use of literature appropriate to each age level can balance the growth of communication skills.

Prerequisite: ED 331 or ED 531 or equivalent preparation in Reading Instruction.

**ED 590 Special Problems in Education (2-4-6-8 credits)**

A course dealing with specialized problems in various phases of education.

Depending on the clientele and staff needs, the specific topics may differ from term to term. The course may be taken more than once but for no more than a total of 8 credits.

Prerequisite: Admission to course in any graduate program or permission of department.

**ED 601 History of Education (4 credits)**

A study of the cultural forces (primarily in the West) as they shaped, and were shaped by, the education of the young. Characteristic patterns of educational institutions, changing conceptions of curricula, dominant social and philosophic ideas concerning education, significant contributions by individual educators, represent some of the professional topics which are discussed in their historical settings.

Prerequisite: Admission to course in any graduate program.

**ED 602 Philosophy of Education (4 credits)**

A study of philosophical inquiry in relation to education. Philosophic analysis of educational problems, educational conclusions by systematic philosophers, logical relationships between various philosophical and educational positions are among the topics considered.

Prerequisite: Admission to course in any graduate program.

**ED 603 Comparative Education (4 credits)**

An analysis of education and its relationship to social and economic change in various cultures. Lectures, readings, and discussions will deal primarily with existing educational systems originating in Western culture, such as Great Britain, U.S.S.R., Sierra Leone, Kenya, but the course will also include some study of selected utopian educational systems.

Prerequisite: Admission to course in any graduate program.

**ED 611 Problems in Elementary Education (4 or 8 Credits)**

A study of issues in the curriculum, methodology, organization, and administration of elementary schools. Student needs and preparation determine the specific topics included in a given semester. Students may register repeatedly for this course up to a total of eight (8) credits.

Prerequisite: Admission to course in a graduate program in Elementary Education.

**ED 612 Curriculum Studies (4 credits)**

A study of curriculum theories and practices in light of modern educational research. The course will investigate the sum total of experiences provided for young people in school settings and will challenge established practices on the basis of recent curricular developments.

Prerequisite: Admission to course in a graduate program in Elementary Education.

**ED 631 Problems in Reading Instruction (4 or 8 credits)**

A study of diagnostic, methodological, organizational, and administrative issues in reading programs. Student needs and preparation determine the specific topics included in a given semester. Students may register repeatedly for this course up to a total of eight (8) credits.

Prerequisite: Admission to course in a graduate program in Education and at least one previous course in reading instruction.

**ED 632 Diagnosis of Reading Disabilities (4 credits)**

A laboratory course concerned with the analysis and study of factors which contribute to or precipitate reading disabilities in elementary and/or secondary school pupils. The course includes selection and administration of both informal and standardized tests and also deals with the preparation and evaluation of case reports.

Prerequisite: Admission to course in a graduate program in Education and at least one previous course in reading instruction.

**ED 633 Correction of Reading Disabilities (4 credits)**

A laboratory course designed to focus attention on methods, materials, and practices pertaining to the instruction of disabled readers. The course provides opportunities to plan,

organize, and conduct remedial instruction for children under the supervision of the instructor.

Prerequisite: Admission to course in a graduate program in Education and at least one previous course in reading instruction.

**ED 699 Terminal Project (4 credits)**

The planning and execution of a significant research or action project in accordance with the advice of the student's guidance committee.

Prerequisite: Admission to degree candidacy in a graduate program in Elementary Education *and* written approval of the student's guidance committee. Such approval should be requested by the student early in the Fall semester for registration in the winter semester, and early in the winter semester for registration in the spring or fall semesters. The Terminal Project should be discussed with the adviser as early in the program as possible.

# SCHOOL OF ENGINEERING

JOHN E. GIBSON, Dean

RICHARD R. SHANK, Assistant Dean

## Professors:

John E. Gibson  
William G. Hammerle

## Associate Professors:

J. Carroll Hill  
Keith R. Kleckner  
Richard R. Shank

## Assistant Professors:

David E. Boddy  
Richard E. Haskell  
Gilbert L. Wedekind

The engineering program at Oakland University is built on the broad intellectual base laid down by the University's imaginative liberal arts program, and is designed to provide a comprehensive academic preparation for students planning to enter the engineering profession. It is intended especially for the relatively able student entering one of the newer fields of engineering.

The curriculum places particular emphasis on the fundamentals of science and mathematics as well as of engineering. During the freshman and sophomore years, each student majoring in engineering takes work in mathematics, the physical sciences and the life sciences as a foundation for his later studies. He then adds a series of engineering courses ranging from thermodynamics and electronics to the mechanics of solids. Required of every engineering student, this core curriculum is designed to provide the firm academic base necessary to every well prepared engineer.

During his senior year, each engineering student is expected to specialize in a particular field of his own choice. Courses listed as engineering design projects are available for further study in systems, materials, mechanics, electronics, and transport phenomena. By arrangement with other departments engineering students may also specialize in advanced chemistry, nuclear

physics, mathematical analysis, or business administration. This advanced work may take the form of seminars, laboratories, or independent projects lasting as long as two semesters. The senior engineering student is expected to gain considerable understanding of how to approach projects of some magnitude.

To prepare the student for independent project work during the senior year, the engineering and physics laboratories taken in the first six semesters consist of open-ended experiments. With the instructor acting as consultant, the student is permitted to design, assemble, analyze and report on his own experiments. He is encouraged to use the student machine shops and electronic shops to construct apparatus not otherwise available and may call upon an instrument maker and electronics technician for aid in designing more complex pieces of equipment. This concept of individual responsibility tends to encourage on the part of the student the maturity and self-reliance required of every successful engineer.

Entering students planning to major in engineering should present at least three years of mathematics, including one-half unit of trigonometry. If high school preparation is possible beyond the normal requirements for admission to the University, additional courses in mathematics, the laboratory sciences, and English are most desirable. Preparation in elementary drafting and machine shop practice is also useful.

#### *Career Preparation in Engineering.*

Government studies indicate that the present shortage of engineers will grow increasingly acute for the next decade. Even now production is only approximately half the demand. Two-thirds of all engineering graduates find immediate use for their skills in industry or government. The remaining one-third continue their education in graduate school; most in engineering, but a small though significant proportion go on in science, business, law, or medicine. Of those students who go on to graduate school, one-third remain for the Ph.D. and careers in engineering teaching or research while the majority find increasing demand for their services in industry. The engineering program at Oakland is designed to allow maximum possible latitude of industrial careers while preparing those interested for entrance to the best graduate schools.

The overwhelming majority of industrial and educational authorities advise against premature specialization in preparing for a career in engineering. The American Society for Engineering Education, for example, has recommended\* after a year-long study involving a survey of all of the engineering schools in the United States that undergraduate curricula be unified and specialization not be made at the expense of proper grounding in the fundamentals.

The Oakland curriculum permits preparation for a wide variety of engineering occupations. The engineering core program plus advanced engineering electives results in a program at Oakland University equivalent to the typical requirements in specialized curricula in other fine schools of engineering. Oakland University, however, places high value on not forcing a student to make a premature choice of career specialization. The student should consult with his adviser on the selection and ordering of courses. Listed here are a few typical options:

#### *Electrical Engineering.*

The student interested in Electrical Engineering will find the core courses in LUMPED PARAMETER LINEAR SYSTEMS and ELECTRONIC CIRCUIT DESIGN of particular interest. He should elect ADVANCED ELECTRONICS and ELECTRIC AND MAGNETIC FIELDS and give consideration to further work in PROPERTIES OF MATERIALS or AUTOMATIC CONTROL SYSTEMS.

#### *Systems Engineering.*

The systems engineer is called on to develop automatic controls for a wide variety of physical processes, thus to the core program he may wish to add work in several areas. Following INTRODUCTION TO SYSTEMS ANALYSIS; AUTOMATIC CONTROL SYSTEMS and ANALYSIS OF NON-LINEAR SYSTEMS should be considered.

#### *Mechanical Engineering.*

One of the older and well established engineering disciplines. In addition to the core program which includes introductory courses in THERMODYNAMICS and in FLUID AND THERMAL ENERGY TRANSPORT, the student should elect advanced courses in FLUID AND THERMAL

\*Report of ASEE Committee on Goals in Undergraduate Engineering Education, 1966.

ENERGY TRANSPORT as well as courses in *materials or systems* area, depending upon his particular interest.

*Metallurgical and Materials Engineering.*

Advanced work in PROPERTIES OF MATERIALS and MODERN PHYSICS will prove valuable to the student. Oakland University emphasizes study of the solid state and engineering materials rather than extractive metallurgy or mining engineering.

*Chemical Engineering.*

Following the core program, THERMAL ENERGY TRANSPORT and FLUID TRANSPORT should be added. Properties of materials are particularly significant to this student and the modern chemical engineer is increasingly interested in the automatic control of chemical processes. Electives in chemistry will be found valuable.

*Sales Engineering and Business.*

Engineering students interested in technical sales and technical management will wish to add electives from the offerings of the Department of *Economics* and *Business Administration*.

*Biological Engineering.*

This is one of the rapidly developing frontiers of engineering. Oakland University is unique in including a program in Biology in its required core program for all engineers. Further work may be taken in cooperation with the Department of *Biology* during the seventh and eighth semesters.

*Energetics.*

Energy transport, conversion and utilization has been the concern of the engineer from earliest time. Oakland University considers this field as one of the core areas in the preparation of engineers. The student prepares for a career involving such applications as plasma engineering, magnetohydrodynamics, ion propulsion and fuel cells. THERMODYNAMICS, FLUID AND THERMAL ENERGY TRANSPORT, ELECTRIC AND MAGNETIC FIELDS and DIRECT ENERGY CONVERSION are important topics.

*Engineering Science.*

The core program includes preparation in all of the engineering sciences. The student should elect advanced work in



several of the stems introduced in the core. Breadth rather than penetration in one area, with a view toward graduate work is the major object of this program.

#### *Other Fields.*

A number of fields of student interest such as *Nuclear Engineering*, for example, are primarily areas of graduate specialization. The program at Oakland is excellent preparation for these. Some areas of undergraduate specialization such as mining engineering and textile engineering, for example, are not offered at Oakland. The Office of Admissions or the School of Engineering should be consulted by prospective students on the availability of preparation for their field of interest.

#### *Peace Corps.*

The School of Engineering will make every effort to arrange programs for those students returning from Peace Corps Service and for those who wish to participate.

### **The Engineering Curriculum**

Completion of a major in the School of Engineering leads to the degree of Bachelor of Science. In addition to the requirements for graduation given under *Admission, Registration and Graduation*, requirements for the major include: 32 credits in the Humanities, Social Sciences, and Foreign Languages. (See under *Courses of Instruction*; an engineering student should consult his adviser regarding the use of his Freshman Exploratories and Senior Colloquium to meet Distribution Requirements.) 36 credits in mathematics and the sciences: BIO 108; MTH 154, 155, 254, and 255; PHY 151, 152, 253, 158 and 371. 36 credits in the Engineering Core Curriculum. 20 credits (or more) in electives chosen with the approval of his adviser to meet his career objectives, 8 of which must be in engineering courses. A transfer student can meet certain of these requirements by appropriate substitutions worked out with his adviser.

Several features of this program are worth noting:

- a) There is strong emphasis on the humanities.
- b) The program is so arranged that a student will be free to take at least one course in engineering each semester he is in residence, including the freshman year. This early introduction to engineering provides career motivation and alleviates crowding of technical courses late in a student's program.

- c) There is a strong emphasis on the digital computer and analog computer simulation in the program. The first several weeks of EGR 101 are devoted to an introduction to digital computer programming and the computer is used steadily thereafter throughout the program.
- d) The core curriculum is arranged to provide an introduction to the engineering sciences useful to all engineers. An additional benefit of this arrangement is that the student does not have to make a choice of an engineering specialty until he is in a position to make the choice intelligently.
- e) Advanced work in engineering is elected after consultation with his adviser by the student during his last several semesters to suit his career objectives.
- f) The four course parallel program permits a greater concentration with less fragmentation of the student's time than the more usual five course parallel programs.

|  |   |   |   |
|--|---|---|---|
| <b>Semester 1</b><br>Freshman Exploratory<br>ENGINEERING 101<br>MTH 154<br>PHY 151             | <b>Semester 2</b><br>Freshman Exploratory<br>ENGINEERING 115<br>MTH 155<br>PHY 152        | <b>Semester 3</b><br>ENGINEERING 225<br>MTH 254<br>PHY 253-258<br>University Course | <b>Semester 4</b><br>ENGINEERING 241<br>ENGINEERING 226<br>BIO 108<br>University Course |
| <b>Semester 5</b><br>ENGINEERING 345<br>ENGINEERING 361<br>ENGINEERING 325<br>Foreign Language | <b>Semester 6</b><br>ENGINEERING 372<br>Technical Elective<br>MTH 255<br>Foreign Language | <b>Semester 7</b><br>PHY 371<br>ENGINEERING 409<br>University Course<br>Elective    | <b>Semester 8</b><br>Senior Colloquium<br>Technical Elective<br>Elective<br>Elective    |

## UNDERGRADUATE COURSE OFFERINGS

### **EGR 101 Introduction to Engineering Design (Core)**

An introduction to the philosophy and tools of preliminary design. The digital computer and graphical data reduction, statistics, energy and economics as well as human factors and information concepts are applied to the solution of engineering design problems. In small engineering design teams, students examine and report on a problem of topical interest. Recent topics include saline water conversion and mass surface transport for urban areas.

### **EGR 108 Drafting (1 credit)**

Introduction to the use of drafting instruments and drafting procedures for those without previous drafting experience.

### **EGR 111 Shop Practice (1 credit)**

Introduction to the machine shop, for students without prior shop experience.

**EGR 115 Statics and Dynamics (Core)**

Vector mechanics including the conditions of equilibrium, structural mechanics, friction, kinematics, Newton's Laws, momentum, energy and rotation.

Prerequisite: MTH 154

**EGR 225 Lumped Parameter Linear Systems (Core)**

Steady state and transient analysis of electrical, mechanical and thermal lumped parameter linear systems. Use of analog and digital computers to solve the differential equations of these systems. Phasors, resonance, circuit theorems; series representation of elements and signals.

Prerequisites: PHY 151 and MTH 155

**EGR 226 Electronic Circuit Design (Core)**

Analysis and design of solid state electronic circuits. Four-terminal active network theory applied to the design of small-signal transistor amplifiers. Harmonic and intermodulation distortion. Linear and nonlinear waveshaping circuits.

Prerequisites: PHY 152, MTH 254, and EGR 225.

**EGR 241 Thermodynamics (Core)**

Introduction to fundamental concepts, thermal energy, thermodynamic properties and equilibrium, basic physical laws of thermodynamics; entropy and its consequences, reversible energy transfers in both open and closed systems; application of thermodynamics to systems involving energy conversion and transport.

Prerequisites: MTH 254, PHYS 253, 258

**EGR 325 Introduction to Systems Analysis (Core)**

Transform techniques, transfer functions, and transducers. Frequency response. Introduction to the analysis of large scale nonlinear systems by analog and digital simulation techniques.

Prerequisite: EGR 226

**EGR 345 Introduction to Fluid and Thermal Energy Transport (Core)**

Fundamentals of fluid mechanics; properties of fluids, conservation principles; viscous, inviscous; laminar and turbulent flow, boundary layer theory; basic concepts of heat transfer; fundamental modes; conduction, convection, and thermal radiation; applications to problems of engineering interest.

Prerequisite: EGR 241

**EGR 361 Mechanics of Materials (Core)**

An introduction to the mechanics of deformable bodies; the distribution of stress and strain in beams, shafts, and columns. Both elastic and plastic materials are considered, including the effects of temperature change.

Prerequisites: EGR 115 and PHY 152

**EGR 372 Properties of Materials (Core)**

The atomic, molecular, and crystalline structure of solids, including a description of x-ray analysis, metallography, and other methods for determining structure; correlation of structure with the electric, magnetic, and mechanical properties of solids.

Prerequisite: EGR 361

**EGR 405 Special Topics**

Advanced study in special areas by seminars. May be taken more than once.

Prerequisite: Permission of the Department

**EGR 409 Senior Engineering Project (2, 4, 6 or 8 credits)**

Independent work on advanced laboratory projects; topics to be chosen by the student in consultation with the instructor.

**EGR 426 Advanced Electronics**

High frequency transistor behavior. Design of multistage transistor amplifiers. Modulation and demodulation, oscillators, resonant load amplifiers. Introduction to digital circuit design.

Prerequisite: EGR 226

**EGR 431 Automatic Control Systems**

Component and system transfer functions. Transient response to deterministic inputs and definition of time domain specifications. Open and closed loop frequency response. Bode diagrams, Nyquist diagrams, root locus, and frequency specifications. Stability and relative stability. Introduction to the design of compensating networks. Use of the analog computer in control system design.

Prerequisites: MTH 255 and EGR 325

**EGR 432 Analysis of Nonlinear Systems**

Introduction to applications of numerical methods and digital computer analysis to engineering problems. Applications of phase plane methods and analysis of singular points. La-

Grange's equations and Euler's angles. Analytic methods: perturbation, harmonic balance, describing functions. Forced oscillating systems.

Prerequisite: EGR 431

**EGR 445 Electric and Magnetic Fields**

Electrostatics including solutions of Laplace's equation, magnetostatics, Maxwell's equations and electromagnetic waves.

Prerequisites: PHY 252 and MTH 258.

**EGR 448 Thermal Energy Transport**

A continued study of the basic concepts, properties and descriptions of the three fundamental modes of heat transfer; conduction, convection, and thermal radiation; theoretical, numerical, and analogical methods of analysis of steady, transient, single and multi-dimensional problems; with laboratory.

Prerequisite: EGR 345, MTH 255 or consent of instructor.

**EGR 449 Fluid Transport**

A continued study of the fundamentals of fluid mechanics and their applications; potential flow of invicid fluids, laminar and turbulent boundary layer theory, compressible flow; similarity, modeling, and dimensional analysis.

Prerequisite: EGR 345, MTH 255 or consent of instructor.

**EGR 454 Direct Energy Conversion**

Thermoelectric engines, thermionic converters, magneto-hydrodynamic engines, photovoltaic effect and solar cells, free energy and fuel cells.

Prerequisites: EGR 241 and EGR 226

## GRADUATE COURSES

For detailed description of graduate courses, admission requirements and the like, see the graduate catalog. Oakland University presently offers work toward the degree of Master of Science in Systems Engineering.

## SYSTEMS ENGINEERING

**EGR 505 Engineering Design Project**

**EGR 520 Analysis and Synthesis of Linear Control Systems**

**EGR 521 Modern Topics in Control Engineering**

**EGR 530 Introduction to Random Signals and Systems**

**EGR 535 Large Scale Systems**



*Foundation Hall Loggia*

## INTERDEPARTMENTAL PROGRAMS AND COURSES

### THE CONCENTRATION IN AREA STUDIES

Committee:

Clyde B. Sargent (History), Chairman

Robert C. Howes (History)

Robert Hoopes (English)

Edward J. Heubel (Political Science)

Robert Simmons (Modern Languages)

Area studies is a field dedicated to understanding, as totalities, living civilizations whose aspects—history, government, social organization, literature, and so on—are studied in the traditional departments. Specialization in area studies work might be considered by any student who seeks an integrated view of a civilization out of general intellectual curiosity as well as by the student who looks forward to a career in government service or journalism, to foreign residence or work, or to graduate study with an area emphasis. Strong fields of area specialization at Oakland include American studies, British studies, Chinese studies, West European studies, and Russian studies. The fields of Indian studies and Latin American studies, though less developed at present, may also be arranged for specialized work.

#### **Center for Far Eastern Studies**

Professor Clyde B. Sargent

With the support of a National Defense Education Act grant, the University conducts a Center for Far Eastern Studies. The Center offers intensive training in the Chinese language and in most aspects of Chinese culture, traditional, and modern.

#### *Requirements for the Liberal Arts Concentration in Area Studies Concentration*

The area studies concentration is available only on a joint basis with a department. Thus a student might major, for example, in history and Russian studies, or political science and Chinese studies, or sociology and American studies. Appropriateness in combining an area specialization and a department,

and in specific course requirements for a joint degree, depends in large measure upon the interests and the career plans of each particular student. In general, each student in the joint program must complete: (1) at least six courses in the major department; (2) at least six courses appropriate to the student's area specialization as prescribed by the Committee on Area studies, especially including foreign language courses where a language is appropriate to the area specialization; and (3) a senior essay or research paper with area emphasis, written in the student's final semester for Area Studies 490.

Admission to major standing in the area studies program requires successful completion of two Freshman Exploratories, any two courses within the major, and four semesters of foreign language study. Interested students should consult with the chairman of the Committee on Area Studies as early in their college careers as possible.

#### **AS 390 Directed Readings in Area Studies**

Readings from diverse disciplines with focus on student's area of specialization, conducted on a tutorial basis by an instructor chosen by the student in consultation with the chairman of the Committee on Area Studies. May be taken more than once.

Prerequisites: at least junior standing, and consent of the instructor.

#### **AS 490 Directed Research in Area Studies**

Interdisciplinary research relating to the student's area of specialization and leading to the writing of a senior essay or research paper. Supervised by an instructor chosen by the student in consultation with the chairman of the Committee on Area Studies. The course grade will depend in part on an oral examination emphasizing the student's research project but ranging broadly over the whole field of his area specialization.

Prerequisites: senior standing, and consent of the instructor.

## **GEOGRAPHY**

### **GEO 200 Geography**

A general survey of selected regions of the world with an emphasis on the problems of political geography, but including aspects of cultural and economic geography.



## THE CONCENTRATION IN LINGUISTICS

Committee:

William Schwab (English), Chairman

Donald Hildum (Psychology)

Don Iodice (French)

John Gibson (Engineering)

Modern or general linguistics is concerned with the systematic study of language, the mode of communicative behaviour most characteristic of humanity. Work in general linguistics provides a way of thinking which, to take only two extremes, is both as rigorous as the mathematician's and as broadly humanistic as the historian's. The concentration in linguistics is intended to provide students with a firm but extensive grounding in the discipline of modern linguistics within the context of one of the regular departmental major programs of instruction. Career possibilities for students with work in general linguistics are numerous and growing. Graduate work in linguistics is a rapidly developing field. Government and private industry are eager for people with a background in the subject. Foreign and native language instruction increasingly places emphasis on linguistics. Many graduate programs in the social sciences recommend or require work in general linguistics as part of their degree requirements.

### *Requirements for the Concentration in Linguistics*

The concentration in linguistics is available only on a joint basis with a department in the College of Arts and Sciences or with the School of Engineering. A wide range of such combinations is possible: Students may major in English, modern languages, mathematics, history, philosophy, psychology, biology, engineering, physics, sociology, and anthropology (other majors might also be considered) and may concentrate in linguistics at the same time. But the student must first be admitted to a departmental major and secondly be accepted into the concentration upon application to the Committee on Linguistics. His program will then be developed by joint action between the department and the committee. Interested students should consult the committee as early in their college career as possible. Four courses (LIN 301-302, LIN 403, LIN 404) constitute the minimum of work directly in the concentration. Other courses may be recommended.

Concentrations in linguistics have been authorized to date by the Departments of English, Modern Languages, and Psychology. Distribution requirements for concentrations in linguistics are as follows:

*Major in English*

The linguistic concentration for the English major requires:

- (A) 5 courses in linguistics, and
- (B) 6 courses in English literature

The courses in literature must include ENG 141-142, 2 courses in English literature, and 2 courses in American literature. The 5 courses in linguistics must include LIN 301-302, 403-404, and one elective, either in linguistics or a course in English language analysis or history, such as ENG 376 or 377.

*Major in Modern Languages (French, German)*

The linguistic concentration for the French or German major requires:

- (A) 5 courses in linguistics, and
- (B) 6 courses in French or German language and literature beyond FL 215.

The FL requirements are 261-262, 271-272, 361, and one course at the 400 level. The linguistic requirement includes LIN 301-302, 403-404, and one elective. In addition, the FL major must take FL 365, the applied linguistics of a particular foreign language.

*Major in Psychology*

The linguistic concentration for a Psychology major requires:

- (A) 4 courses in linguistics, and
- (B) 6 courses in psychology

5 of the 6 psychology courses must be PSY 146, PSY 351 or 352, PSY 353, PSY 361, and PSY 435. Arrangements may be made, under the heading of "Psycholinguistics major," to substitute a linguistic or other cognate course for the unspecified 6th psychology course. The linguistic courses are LIN 301-302, 403-404.

The linguistic requirements are those specified for each department, but a student may be allowed certain substitutions by permission of the Committee on Linguistics.

**LIN 301-302 Introduction to Linguistics**

A general introduction to modern linguistics and to synchronic linguistic analysis. The second semester extends the

study to include diachronic and other specialized applications of linguistic techniques.

**LIN 365 Applied Linguistics**

A series of sections in French, German, Russian, and Spanish are offered in this course. They are the same as FRN, GRM, RUS, and SPN 365.

**LIN 403 Phonology**

A presentation of the theory and application of phonetics and phonemics to a variety of linguistic problems, including supervised work with individual informants.

Prerequisite: LIN 301-302

**LIN 404 Grammatical Analysis**

A presentation of the theory and application of morphological and syntactical analysis, with emphasis on work with original material.

Prerequisites: LIN 301-302

**LIN 490 Independent Study**

Special research projects in linguistics.

Prerequisite: Permission of the Committee on Linguistics

**THE CONCENTRATION IN PREMEDICAL STUDIES**

Students intending to pursue careers in the medical or dental professions are expected to complete the Concentration in Premedical Studies. The concentration consists of a series of courses in biology, chemistry, mathematics, and physics intended to satisfy the minimum requirements for admission to the various medical and dental schools in Michigan and elsewhere. In general, the concentration is completed with the following courses:

|             |  |
|-------------|--|
| Biology     | 3 semester courses, including laboratories |
| Chemistry   | 4 semester courses, including laboratories |
| Mathematics | 2 semester courses                         |
| Physics     | 2 semester courses, including laboratories |

The Premedical Studies Concentration does not constitute a major. Students must select a major from among those offered by the University. Each student in the concentration will be assigned a premedical adviser who will assist the student in planning his academic program for as long as the student is enrolled in the concentration.



*Richard Brown Baker Collection—University Art Gallery, 1967*

## SCIENCE

### **SCI 305 Science in the Elementary School**

Content and methodology appropriate to students in the elementary education program.

Prerequisite: Major standing in elementary education.

### **SCI 505 Basic Concepts and New Developments in Science**

Basic concepts in science and science methodology. An intensive study of one science area (e.g. Biology, Chemistry, Physics, etc.), and a study of the new curricula in science for the elementary school.

Prerequisite: Admission to course in a graduate program in elementary education, or permission of the instructor.

## SOCIAL STUDIES PROGRAM

### *Requirements for the Teaching Major in the Social Studies*

This major has been devised for students who plan to teach the various Social Studies in junior or senior high school. The selection of courses provides a broad background of preparation for the various areas offered in the public schools in the fields of the Social Sciences.

In common with other education majors, the program requires:

1. Either UC 54 or PSY 146
2. ED 244-245, ED 428, and ED 455

Special requirements of the major include:

3. 8 hours in area studies courses
4. 28 hours of coursework in the social sciences in varying combinations.
  - a. For the student who minors in history, 20 hours must be taken in courses offered by one of the social science departments. For purposes of this program, the Departments of Economics, Political Science, Psychology and Sociology-Anthropology are defined as social sciences.  
For the student who does not minor in history, the 20 hours may be distributed among these departments, with a concentration of 12 hours in one department.
  - b. For the student who does not minor in history, an additional 8 hours must be taken in history.

If the student minors in history, 8 hours must be taken from among the social sciences. Courses in geography may be counted as part of this total.

In this program, university courses, freshman exploratories, and the senior colloquium may, when appropriate, be counted in meeting the required totals.

A number of minors may be selected in consultation with the adviser to accompany the Social Studies major. Recommended minors include History and English. Admission to major standing requires successful completion of two social science courses beyond the university course level and concurrent acceptance into the Teacher Education Program.

#### *Requirements for the Social Studies Minor*

The minor requires a minimum of 24 hours selected from courses offered by the Social Science Departments or courses in Area Studies, Geography, Western Institutions, including such Freshman Exploratories and Senior Colloquium as fall within the minor.

Students majoring in history who wish to elect a Social Studies minor must confer with the Placement Office and/or the Office of the School of Education before electing this program.

#### **SS 570 Social Studies in the Elementary School**

An intensive study of current trends, challenges, characteristics, and content of effective social studies programs, with emphasis on the relationship among discipline areas comprising the social studies. The course will stress application of these studies in urban area elementary schools.

Prerequisite: Education 245 and acceptance into a graduate or certification program or major standing in Elementary Education.

### **SPEECH**

#### **SPH 201 Effective Oral Communication**

Theory and practice in oral communication, with emphasis on the adaptations required by particular speaking goals, audiences, and occasions. Through the researching, organizing, and delivery of classroom speech assignments (informa-

tive, persuasive, discussion, manuscript, etc.) students are prepared for a variety of speaking situations. Classroom interaction aids in identifying, and thereby correcting or enhancing, individual personality and delivery characteristics.

#### **SPH 301 Persuasive Oral Communication**

Advanced theory and practice in persuasive oral communication providing challenging audience response and criticism. Use of evidence, reasoning and emotional appeals in persuasion; problem solving functions of discussion; rhetorical analysis of selected vital speeches, past and present, in text and on tape; elements of oral style.

Prerequisite: Speech 201, or consent of the instructor.

### **SPECIAL EDUCATIONAL PROGRAMS**

#### **The Academy of Dramatic Art**

The Academy of Dramatic Art offers a practical approach to the professional theatre to students who intend to make their career on the stage. A minimum period of two years is the normal time required to complete the training and to qualify for the Academy's Diploma in Dramatic Art. The entire course is coordinated so that the separate elements of acting become part of the complete design of the actor's craft.

Entry to the Academy is by competitive auditions held three times yearly. John Fernald, Director of the Academy, and a panel of judges with wide experience in the theatre select the successful candidates. No class exceeds fifteen in number and students thus benefit greatly by close individual attention and intensive training. Students enjoy, too, the stimulus of being linked with the John Fernald Repertory Company which rehearses and gives performances at the Meadow Brook Theatre of Oakland University throughout the Academy year. Graduates who reach the requisite standard may be invited to join the Company and thus pass directly into the professional theatre.

For further information write to Assistant to the Director, Academy of Dramatic Art, Oakland University, Rochester, Michigan 48063.

#### **Alumni Education**

The Alumni Education Department represents Oakland University's abiding concern for the student's educational development beyond graduation. Instituted with the assistance

of the Kellogg Foundation, the alumni education program is designed to provide college graduates with systematic counsel and assistance in identifying and meeting their life-time educational needs. With emphasis on the personal and professional goals of the graduate, the Department serves as a counseling center and clearing house of information on the kinds of desirable programs available to alumni wherever they are located.

### **Division of Continuing Education**

Oakland University's Division of Continuing Education, the first of the academic divisions of the University to initiate its program (Sept. 1958), offers a comprehensive and varied program of courses, conferences, and special events, all open to adults of the community it serves.

Recognizing that education is a never-ending process, that man never outlives his need for intellectual enlightenment in order to perform effectively his mature roles as worker, parent, and citizen, the University established the Continuing Education program as an integral part of its function. It remains aware that the fulfillment of this objective is never fully achieved in the life of any individual, that the pursuit of excellence is an infinite task never completely accomplished by even the most dedicated student.

Because the inherent philosophy of Oakland University is to imbue the student with an insatiable hunger for more and more knowledge, it has extended its horizons to its graduates and to other members of the community to provide the maximum opportunity, environment, and encouragement to continue their education throughout their lives.

The Division offers courses and conferences in professional and cultural subjects at a university level in content. The difference here, however, is that the only prerequisite for taking a course is the desire to learn.

A new series of courses is presented each term and conferences on various subjects are held throughout the year. Currently, 180 courses are offered in the humanities, fine arts, business, engineering, government and special skills.

In addition, the Division conducts numerous closed courses designed specifically to meet the needs of business, government,



and social agencies. A Pre-College Study Center resident program is offered each summer to acquaint college-bound students with campus life and to sharpen their study skills and increase proficiency in reading, composition, languages, and science. Opera workshops and preview lectures of the Meadow Brook Festival and Stratford Shakespearean plays are among the many cultural features of the Division.

Conferences range from the problems of widows and divorcees to life insurance agency management. Local issues such as traffic safety and county home rule are studied by the officials and leaders of the community with the objective of action programs leading to solutions or improvement.

The Division also directs the Continuum Center for Women which offers a unique and meaningful psychological testing program and counseling service, the Mott Center for Community Affairs, and the Alumni Relations and Placement Departments. It also administers the Alumni Education Department which counsels former students toward purposeful and planned programs of lifelong learning.

Course catalogues and program informational brochures are available upon request (338-7211, extension 2171).

### **Meadow Brook School of Music**

The Meadow Brook School of Music is a specialized summer activity of Oakland University. It operates for six to eight weeks a year in conjunction with the Detroit Symphony Orchestra during its summer residence on the Oakland campus for the Meadow Brook Festival. The School draws its faculty from the members of the Department of Music and the teaching members of the Detroit Symphony Orchestra. In addition, it invites as a visiting faculty a large number of distinguished performers and artists which in the past have included Robert Shaw, Isaac Stern, Leonard Rose, Eugene Istomin, John Wustman, the New York Pro Musica, and many others.

All the students of this School are selected on the basis of competitive audition. For both summers of its existence, it has attracted nearly 500 students from 35 states and 9 foreign countries. 40% of these have been high school seniors and graduates; 20% have been undergraduate students, and 40% graduate students. Undergraduate and graduate credit is awarded.

The Meadow Brook School of Music derives its strength from Oakland's unique position as the first University in the country to have a major professional orchestra in residence on its campus in the summer. This combination has permitted the program to bring together some of the finest performers on the concert stage and a highly talented group of pre-professional student musicians in an intensive summer session. Each student studies his own instrument or voice with an outstanding teacher, plays in an orchestra, or sings in a chorus, of professional level, and takes additional course work of a more traditionally academic character such as music theory or literature. In addition they attend almost daily rehearsals and concerts by the Detroit Symphony Orchestra with brilliant soloists, and by such visiting groups as the New York Pro Musica, and the Istomin-Stern-Rose Trio.

The School is divided into various institutes for musicians with specific interests. For the instrumentalist there is an orchestral institute with a student orchestra, which duplicates the size and distribution of the Detroit Symphony Orchestra, and a chamber music institute. For the singer there is a choice between a choral institute and a solo vocal institute. A choral conductors institute attracts many conductors and an early music institute of briefer length is intended for those with an interest in study and performance of pre-classic music.

In its three short years of existence, the Meadow Brook School of Music has become recognized as one of the most outstanding summer schools of music in the nation.

For further information write to Dean, Meadow Brook School of Music, Oakland University, Rochester, Michigan 48063.

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\*The Oakland Foundation, an advisory body composed of leading citizens of southern Michigan, had a leading role in shaping the outlines and philosophy of the institution and continues its concern for the welfare of the University. This group is active in fund raising and other efforts to benefit Oakland. Its Scholarship Committee has provided much of the money available for student scholarships.

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Howard C. Baldwin Memorial Pavilion



Meadow Brook Hall

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