



OAKLAND UNIVERSITY

1964 CATALOG 1966

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 from its beginning to develop its own philosophy, program, policies, staff and faculty.

CORRESPONDENCE DIRECTORY

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

Admissions Information and Bulletins

Director of Admissions

Scholarships and Grants

Director of Scholarships

Student Housing

Director of Student Residences

Student Affairs

Dean of Students Affairs

Loans

Associate Dean of the University

Continuing Education

Associate Dean for Continuing Education

Educational Program, Transcripts, Academic Reports

The Registrar

Business Matters

Director of Business Affairs

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OAKLAND UNIVERSITY

**Catalog
1964-1966**

Rochester, Michigan

UNIVERSITY CALENDAR

1964-1965

FALL SEMESTER

September 8	Tuesday	Convocation exercises
September 9	Wednesday	Orientation
September 10	Thursday	Orientation and enrolling
September 11	Friday	Orientation, enrolling and Registration
September 12	Saturday	Registration
September 14	Monday	Classes begin
November 26	Thursday	Thanksgiving recess
November 30	Monday	Classes resume
December 22	Tuesday	Last day of semester

WINTER SEMESTER

January 4	Monday	Orientation and Registration
January 5	Tuesday	Classes begin
March 4	Thursday	Winter recess
March 8	Monday	Classes resume
April 21	Tuesday	Last day of semester

SPRING SEMESTER

April 30	Friday	Orientation and Registration
May 3	Monday	Classes begin
July 5	Monday	Holiday
July 6	Tuesday	Classes resume
August 13	Friday	Last day of semester

1965-1966

FALL SEMESTER

September 7	Tuesday	Orientation and enrolling
September 8	Wednesday	Convocation exercises
September 9	Thursday	Orientation and enrolling
September 10	Friday	Registration
September 13	Monday	Classes begin
November 25	Thursday	Thanksgiving recess
November 29	Monday	Classes resume
December 22	Wednesday	Last day of classes

WINTER SEMESTER

January 3	Monday	Orientation and Registration
January 4	Tuesday	Classes begin
March 3	Thursday	Winter recess
March 7	Monday	Classes resume
April 20	Wednesday	Last day of semester

SPRING SEMESTER

April 29	Friday	Orientation and Registration
May 2	Monday	Classes begin
July 4	Monday	Holiday
July 5	Tuesday	Classes resume
August 12	Friday	Last day of semester

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OAKLAND UNIVERSITY

Oakland University is a state-supported, undergraduate institution, which centers its program in the liberal arts and sciences. The University also offers professional training in teacher education, business administration, and engineering science. Regardless of his special field, each student at Oakland takes work in prescribed studies which the University conceives to be the basis of a liberal education. These are called University Courses.

The Oakland 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 academic departments of the University are separated into three divisions. The Division of Humanities includes Art, Classical Languages and Literatures, English Language and Literature, History, Modern Languages and Literatures, Music, and Philosophy. The Division of Science and Engineering includes Biology, Chemistry, Engineering Science, Mathematics, and Physics. The Division of Social Sciences includes Economics and Business Administration, Political Science, Psychology, Sociology and Anthropology, and the Teacher Education Program. All these departments offer major programs, and there are presently a few divisional and interdivisional programs as well.

The University's primary concern lies in creating and maintaining an effective community of learning. At Oakland 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, the art gallery, lecture halls, music rooms, and the health service.

SOUTH FOUNDATION HALL contains classrooms, the language laboratory, music rooms, art studios, faculty offices, the Placement office, 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 52,000 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 to be built with state funds provided by the Michigan Legislature, contains modern facilities for biology, chemistry, engineering science, 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 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. 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. It will also have 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 student residence halls at Oakland are ANIBAL HOUSE, FITZGERALD HOUSE, PRYALE HOUSE, AND HILL HOUSE. Anibal, Fitzgerald, and Pryale Houses are L-shaped buildings with 24 double rooms in each wing; the wings are joined by a student lounge and a resident advisors apartment. Hill House is a square, six-story dormitory, which contains 100 double rooms, a lobby, lounge, recreation rooms, and a resident advisor's apartment. There are complete laundry facilities available, and resident students dine in special facilities in the Oakland Center.

THE CHARLES F. KETTERING MAGNETICS LABORATORY, constructed with a grant from the Kettering Foundation, houses facilities and special equipment for magnetics 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, provided the setting for the widely-acclaimed 1964 Meadow Brook Music Festival. The \$300,000 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.

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, John 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 held its first commencement, and the charter class became its first alumni.



Meadow Brook Hall



National Science Foundation Conference at Meadow Brook Hall



Meadow Brook Festival with Detroit Symphony Orchestra

THE FACULTY

- DURWARD B. VARNER *Chancellor of the University*
B.A., Texas A & M; M.S., University of Chicago
- DONALD D. O'DOWD *Dean of the University*
A.B., Dartmouth College; M.A., Ph.D., Harvard University
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- SHELDON APPLETON *Associate Professor of*
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B.A., M.A., New York University; Ph.D., University of
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- JAMES O. BAILEY, JR. *Assistant Professor of Russian*
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- WALTER L. WILSON *Professor of Biology*
 B.S., West Chester State College; Ph.D., University of
 Pennsylvania



Freshman Dinner Dance at Meadow Brook Hall

THE BACCALAUREATE CURRICULUM

Degrees

The University baccalaureate curriculum consists of programs in the Liberal Arts and Sciences, in Business Administration, Elementary and Secondary School Teaching, and in Engineering Science. Oakland University confers two degrees: all graduates are granted the Bachelor of Arts, except those in engineering science, who are granted the Bachelor of Science.

The University Courses

The University Courses make up a plan of general, liberal studies required of all students at Oakland. Designed to offer the entire student body a common intellectual experience, the University Courses are normally part of a student's program throughout his eight semesters of study. The sequence in which he takes them, however, depends on the major field he elects, as does the way in which he fulfills certain parts of the requirement. For complete information about specific University Course prescriptions and sequences in a given major program, the student should consult that section of this catalogue dealing with the major. What follows here is a general statement of the requirement.

1. In the first and second semesters all students must take two-semester courses in *Literature in the Western Tradition* and in *The Development of Western Institutions and Social Ideas*.
2. All students are required to study a foreign language.
3. All students are required to take two semester courses in science and mathematics; to fulfill the requirement, they may offer two courses in science or one in mathematics and one in science.

4. All students must take work in each of the following fields: art or music, the social sciences, and area studies (a program dealing with non-Western cultures, specifically China and India).

5. In order to fulfill the requirements of Michigan Public Law 229, all students must take either the University Course in political science (UC 052) or any combination of two courses from the University Course social science sequence (UC 054, UC 056, UC 058) and the American history sequence (HST 214, 215).

Preprofessional 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 advisors are available to help plan programs for preprofessional students.

STUDENT SERVICES

When a student arrives on the Oakland 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.

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 ask the Associate Dean of the University for a change of adviser at any time, 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. No student is permitted to register until he has met with his adviser, and 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.

Psychological Services

The Office of Psychological Services is designed to help the Oakland student with problems that may appear in academic, vocational or personal areas. A wide range of testing and counseling activities are available to meet the needs of the individual student. The office is also responsible for all noninstructional testing and a summer orientation program for freshmen.

Health Service

A registered nurse is in attendance at the Health Service which can provide limited treatment in emergencies and help with minor health problems.

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 service for seniors who wish assistance in making a decision regarding a choice of careers. A placement library containing descriptive literature from hundreds of employers is maintained and introductions can be arranged for candidates wishing to make application to any of these employers.

Alumni placement is another service performed by the Placement Office.

All on and off-campus part-time employment is handled through this office.

Alumni Relations

An Alumni Council, composed of twelve graduates appointed by the Chancellor, works closely with the Alumni Relations Office in establishing alumni policies and procedures.

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.

Continuing Education

Oakland University has established as an integral part of its function the Continuing Education program. Through this agency, the adults of the community are offered conferences and non-credit courses in professional and cultural subjects at University level. Course offerings include those in the humanities, fine arts, business, engineering, and government and special skills.



HOUSING

Oakland University provides modern residence halls to accommodate its students. To provide an atmosphere and the benefits of small group living, each hall is divided into floors varying in size from twelve to twenty double rooms.

Policy

The University requires that all full-time, 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.

Women students living on campus are required to be in their halls by 12:00 midnight Sunday through Thursday and by 2:00 a.m. on Friday and Saturday.

Application for Room

New students should request a housing reservation through the Admissions Office. A \$25.00 Housing Deposit should accompany their request. Upon a student's acceptance at Oakland, his reservations will be processed by the Housing Office. Notification of hall assignment will be made approximately 4 weeks before the beginning of each semester. Returning students may renew housing contracts through the Director of Student Residences.

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

Accommodations

Students may occupy their rooms beginning the day preceding registration of Winter and Spring Semesters, and for Fall Semester, the day of Convocation. Room and board is 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 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 convocation. The last meal of any semester is breakfast following the last day of examinations. Meals are served cafeteria style in the Oakland Center.

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 \$402 per semester. If a student signs a housing contract at any time during Fall Semester, that contract is binding for both 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 is payable on or before registration or in three allotted payments due at registration and the first of the next two months.

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

A Student-Faculty University Council provides a forum for discussion and proposal of and action on needs in University life. The Council holds open meetings on important issues and sends its recommendations to the proper University office. New members of the Council are selected by faculty and present members.

The Dormitory Council is elected each semester by the resident students from their own number and propose changes and improvements in all areas of dormitory life. All meetings of this group are open, and it seeks to be the representative, responsible voice of the residents.

The Women's Judiciary Board is elected from and by resident women to interpret and enforce women's regulations. The Board in conjunction with the Dormitory Council makes any necessary changes in the regulations.

Clubs and Organizations

The Student Activities Council coordinates student activity on the campus. The organization also stages the annual Snow Carnival with its election of a queen and her court,

snow sculpture competition, skating and toboggan races and student-faculty ice hockey games. A dance at which the queen is crowned climaxes the Carnival.

Many academic clubs are active on campus—French, Spanish, Russian, Philosophy, Psychology, the Economic Society and the Engineering Society. The Engineering Society sponsors a Road Rally and dance twice a year, and the other groups present speakers, plays, etc. Political interests are provided for by Young Democratic and Young Republican Clubs and a Socialist Study Club.

The Dormitory Social Committee sponsors additional social and cultural activities primarily for resident students. Informal coffee hours with faculty members, folk-sings, play-readings, candle-light dinners, parties and dances are some of the projects the Committee has completed. The University provides transportation off campus for a small fee on weekends for shopping, movies, etc.

Religious Groups

There are also several religious groups on campus, including the Intersociety, a nonsectarian club; the Newman Club, the Oakland Christian Federation, the Wesley Foundation, the Christian Science Organization, and the Hillel Foundation.

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 Meadowbrook 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 advisor, the Guild is able to provide students with opportunities to learn acting, directing, produc-

tion, 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's "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.

Oakland Center

Housed in the Oakland Center are several services which contribute a great deal to student life. The Hole, a student planned and operated coffee house, presents jazz or folk music each weekend in the proper dark, crowded atmosphere. The Pickwick Club next door offers relaxation and recreation at its ping-pong and billiard tables.

The Activities Center provides information about University events and activity in all neighboring metropolitan areas. A master calendar, a daily bulletin and a monthly calendar of events keep the campus informed of its doings, and student-rate tickets to most major events in Detroit are available at the ticket desk. Tickets to concerts, plays, ballet, films and opera are available in this way. The Program Advisor is available to help a student group in any phase of its activity; the Advisor can provide office space, supplies, telephone and mailing facilities as well as advice and guidance.

Art Exhibitions

Several times a year the Art Department sponsors showings of the work of outstanding artists. They are exhibited in the permanent University Art Gallery, located in North Foundation Hall. The University also has acquired, through gifts and permanent loans, the beginnings of an outstanding

permanent collection. The score of works so far acquired represent the work of some of today's best young painters, as well as of Matisse, Renoir, Rouault, Picasso, and Cezanne. The best student work is hung in the Gallery each semester and prizes are awarded. Several traveling displays, student shows, and shows by local artists were presented in the Oakland Center Exhibit Area.

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

The *Oakland Observer*, the student newspaper, is a lively weekly publication. The *Observer* is independent editorially, controlled by an editorial board made up of the senior staff members, who are salaried. The editor is appointed each year by advisers with much newspaper experience. The *Observer's* editorial and business offices are located in the Oakland Center. Facilities include a complete photographic laboratory.

Contuse, a literary magazine, is published once a semester and contains essays, poems, short stories, and literary criticism. This publication is generated and edited by students. Students also publish a yearbook and, as is the case with the *Observer*, senior staff members are salaried.

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 individual 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 are possibilities for 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.



Computer Data Processing Center

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.

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

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 automatically 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.

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 at least one month before reentry.

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 and

July. At this time placement testing will be administered, general information about the University will be disseminated, academic advising will take place and registration procedures will be discussed. All new students, except those from out of state and foreign countries, are requested 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 course, which is one semester of a subject. All courses are valued alike, regardless of the number of class meetings per week or per semester. For transcript purposes only, each course is accorded four semester credits.

Normally, a student may take only four courses a semester, but any student in good standing may register for a fifth course in any two of his last four semesters. Only as a result of a successful Petition of Exception will a student be permitted to take a fifth course at another time. Forms and details concerning Petitions of Exception are available from the Registrar.

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

A student may take any course three times. The last grade earned in a course will be used to compute the student's grade point average.

Grades and Grade Point System

Oakland has a numerical grading system ranging in tenths from 0.0 to 4.3. This system is not related to numerical or letter equivalents. 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 received 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 Dean of the University.

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.

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 of 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 Associate Dean of the University. The withdrawal must be presented to the Registrar for recording and to the Director of Business Affairs for any possible refund. Grades and refunds are determined according to the effective date of the withdrawal. Students who fail to follow this procedure must obtain permission from the Associate Dean of the University 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 0.0 will be assigned by the instructor in consultation with the Associate Dean of the University.

Requirements for Graduation

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

1. Have passed at least 31 courses.
2. Complete 8 courses (32 credits) at Oakland University. At least 4 of these courses must be in his elected major. A student must be registered at Oakland for at least 2 courses 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 passed all prescribed University Courses.
5. Have fulfilled all requirements for an elected major and have at least a 2.0 average in the courses required for a major.

The graduation requirements for any given student are those in effect in the year during which he is granted a degree. In instances where these requirements impose a hardship, the student may petition the Committee on Instruction for an exception.

TUITION AND FEES

Tuition Charges

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

	Full Time 12 or more credits		Part Time 4-8 credits
Michigan Residents	\$165	\$ 72	\$109
Out-of-state Residents	\$438	\$184	\$277

(All fees are payable at registration, including those of Veterans under Public Law 550.)

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.

Tuition Deposit

Within three weeks after notification of admission, a deposit of \$50 must be paid which 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 June 1, if the University is notified. Deposits made after June 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.

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 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.

Veterans

Students eligible to attend the University under Public Laws 550 or 894 must obtain a "Certificate for Education and Training" from the Veterans' Administration. Under

Public Law 550, the veteran pays his own fees and buys his own books. Reimbursement is obtained by filling out a monthly Report of Attendance Form at the Registrar's office.

ESTIMATED EXPENSES

The cost of attending Oakland is moderate. For a commuter student \$310 per semester may cover all costs: tuition, books, lunches, and transportation.

The basic costs for a Michigan student living on campus would be about \$612 per semester for tuition, books, room, and board. For an out-of-state student they would be about \$885 per semester.

Since under the three-semester plan a student goes to school three semesters a year instead of two, the eight terms are 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:

	Michigan Commuter	Resident	Out-of-State
Tuition	\$165	\$165	\$438
Books and Supplies	45	45	45
Board and Room.....		402	402
Lunches and Local Transportation	100		
	\$310	\$612	\$885



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 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:

Annual one year scholarship of \$400 to a freshman student coming from an area served by Detroit Edison Company.

General Motors Scholarship:

Three awards are made each year to entering students under the nationwide scholarship program of the General Motors Corporation. Each 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 business administration. 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.

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.

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 giving \$200 and over during the period from 1962 to the time of printing of this catalog.

Abernethy Foundation	Eppert, Ray R.
Adams, Charles F.	Eurpac Service, Inc.
Ahrens, Don E.	Exchange Club of Brooklands
Alpha Delta Kappa-Zeta Chapter	Fisher, Max M.
American BPW Association, Tipacon Chapter	Fitzgerald, Harold A.
American Society of Tool & Mfg.	Ford, Russell G.
Armstrong, Mr. and Mrs. R. A.	Fruehauf, Roy—Foundation
Awrey, Wilbur S.	General Motors Corporation
Baldwin Rubber Company	General Motors Girls Club
Beaudette Scholarship	Gordon, John F.
Booth, Warren S.	Gossett, Mr. and Mrs. William
Bugas, John—Fund	Graham, Mrs. Graham J.
Business and Professional Women's Club, Royal Oak	Hamburger, Sam and L. Foundation
Campbell-Ewald Company	Haupt, Jack and Mrs.
Carey, Mr. and Mrs. Walter	Howlett, Harold E. Memorial (Community National Bank)
Chamberlain, Mrs. Jesse	Johnson, Mary Louise— Foundation
Colbert, Mr. and Mrs L. L.	Junior Chamber of Commerce, Pontiac
Cole, Edward N.	Junior League, Birmingham
Community National Bank	Klotzberger, Edward C.
Consumer's Power Company	Knudsen, S. E.
Curry, Mrs. D. H.	Macomb Town Hall
Dawson, Hanley Chevrolet	Mahon, R. C.—Foundation
Detroit Bank & Trust Company	Michigan Bell Telephone Company
Detroit Edison Company	
Duffy, Irving A.	
Dykstra, John—Foundation	

Michigan Tractor & Machinery	Rotary Club of Pontiac
National Bank of Detroit	Rotary Club of Southfield
National Foundation of Rochester	Sanders, Fred W.
National Twist Drill & Tool Company	Scott, Dr. Marion L.
Nichols, The Company	Seidman, William and Sarah— Foundation
Norvell, Mr. and Mrs. Ralph T.	Shenefield, John W. and Madeline
Oakland County Scholarship Committee	Teacher Education Association— Oakland University
Oxford Savings Bank	Trumbull Foundation
Ott, Wilbur	Wasserberger, George A.
O'Dell, Hewlett & Luckenbach, Associates	Wayne Oakland Bank
Pontiac-Oakland Town Hall, Inc.	Wilson, Dr. Elizabeth M.
Pontiac State Bank	Wyman Furniture Company
Putnam Tool Company	Zeder, James C.
Republicans of Oakland County	Zonta Club of Pontiac
Reuther, Mr. and Mrs. Walter— Foundation	Women's National Farm and Garden Assoc. (Lake Angelus)
Reynolds Metals Company	Women's National Farm and Garden Assoc. (Pontiac)
Rinehart, T. M. Jr.	Women's National Farm and Garden Assoc. (Rochester)
Rinshed-Mason Company	
Rochester Paper Company	

Loans

Four loan funds are available, one for long-term and three for short-term assistance. All are available to students in good standing on the basis of need.

W. Everett Grinnell Loan Fund:

This fund provides for short-term loans to any Oakland student.

National Defense Education Act funds:

These monies provide for loans up to \$1,500 per year. The three percent interest rate and the ten-year repayment period begin a year after the student leaves college (or graduate school). No interest accrues nor are payments required during military service. In the event of the borrower's death or total disability, the obligation is cancelled. Up to one-half of the obligation may be forgiven—at the rate of ten percent per year—for teaching in a public school.

The Pontiac Kiwanis Club Loan Fund:

This provides for short-term loans to students or staff. Interest is one percent per year. These loans are available to sophomores and upperclassmen.

The Joan Selby Fund:

This fund is intended primarily to provide adult students with short-term loans, also at one percent, but its resources are also available to other students.

Part-time Employment

Although demand almost always exceeds supply, on-campus jobs of varying kinds and durations have been provided for over 200 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 University's Placement Office which is the clearing house for on- and off-campus jobs. No student is permitted to work more than twenty hours a week on a campus job, and all are discouraged from working more than fifteen.

A student who works two hours a day or ten hours a week may earn from \$140 to \$190 per semester, depending on the type of work.

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. Courses numbered 100-199 are normally taken by students in the first and second semesters, 200-299 courses in the third and fourth semester, 300-399 in the fifth and sixth semesters, and 400-499 in the seventh and eighth semesters.

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 passed fourteen courses 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 completion of his fourteenth course. 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. Sample programs are outlined in these sections, as are the University Course requirements for a given major.

ENGLISH (TE)	2	2	2	UC 054 and 1 Other Course	2	2	3	
ENGINEERING SCIENCE	2	2	1	1	1	(Major)	2	One Additional Course From III, IV or V PL 229 Must Be Met
HISTORY (LA)	2	2	2	2	2	2	4	
HISTORY (TE)	2	2	1	UC 054	1	2	3	Additional Courses Are Required in III, IV or V Depending on Minor
LATIN (TE)	2	2	1	UC 054	1	2	4	Additional Courses Are Required in III, IV or V Depending on Minor
MATHEMATICS (LA)	2	2	2	2	2	(Major)	4	
MATHEMATICS (TE)	2	2	1	UC 054	1	(Major)	2	One Additional Course From III, IV or V PL 229 Must Be Met
MODERN LANGUAGES (LA)	2	2	2	2	2	2	4	
MODERN LANGUAGES (TE)	2	2	1	UC 054	1	2	4	Additional Courses Required in III, IV or V Depending on Minor PL 229 Must Be Met
MUSIC (LA)	2	2	2	2	2	2	4	
MUSIC (TE)	2	2	2	UC 054	1	2	3	One Additional Course in IV or V PL 229 Must Be Met
PHILOSOPHY	2	2	2	2	2	2	4	
PHYSICS (LA)	2	2	2	2	2	(Major)	2	
PHYSICS (TE)	2	2	1	UC 054	1	(Major)	2	One Additional Course in III, IV or V PL 229 Must Be Met
POLITICAL SCIENCE	2	2	2	2	2	2	4	
PSYCHOLOGY	2	2	2	2	2	2	4	
SOCIAL SCIENCE (TE)	2	2	2	2	2	2	3	
SOCIOLOGY & ANTHROPOLOGY	2	2	2	2	2	2	4	

UNIVERSITY COURSES

UC 016-017 Literature in the Western Tradition

Lectures on the literary traditions, forms, and conventions of the West enabling the student to acquire a sound foundation for the understanding and judgment of literature. Discussion sections are based on the lectures and offer the student continuing instruction and practice in expository and critical writing. UC 016 deals with epic and drama, UC 017 with the novel and lyric poetry.

UC 034-035 Development of Western Institutions and Social Ideas

An 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. UC 034 starts with representative ancient ideas, as interpreted in the European Middle Ages, and closes with the era of the French Revolution. UC 035 considers the Nineteenth and Twentieth Centuries.

UC 047 Introduction to Art

An interpretation of major styles and ideas in world painting, sculpture, and architecture. No practice of studio art is required. Note: Prospective art majors should take UC 047 in the first or second semester.

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 SCIENCE SEQUENCE

UC 052 Introduction to Political Science

A survey of the main concepts and modes of analysis in political science. Such themes as political power, ideologies, authority, law, constitutions, public opinion, political parties, and interest groups are presented. Particular countries (e.g., Great Britain, Russia, and the U.S.) are studied to illustrate various types of government. Note: Prospective political science majors should take this course in the first or second semester.

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 the first or second semester.

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. Note: Prospective sociology majors should take this course in the first or second semester.

LANGUAGES

Chinese, French, German, Greek, Latin, Russian, and Spanish are offered. For course descriptions see subsequent section.

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 Area Studies requirement, students normally will take UC 062 and UC 066, beginning with either; but for selected students more concentrated study of a single area is possible by combining UC 062 with UC 063 or UC 066 with UC 067.

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: UC 035 and the social science sequence.

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: UC 035 and the social science sequence.

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 two courses chosen from the following three: UC 085, UC 086, UC 087. 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 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. The courses may be taken independently of each other. Not open to those with credit for BIO 106, CHM 114, PHY 251, or any laboratory science course. Enrollment limited to those with more than 58 credits. Prerequisite: Two years of high school mathematics.

DEPARTMENTAL COURSES

DEPARTMENT OF ART

Professor:

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

Assistant Professors:

John L. Beardman (Art)

John B. Cameron (Art History)

Damie Stillman (Art History)

The program in art prepares the major for graduate study in history of art or studio art, thus providing fundamental training which may lead to careers in college teaching, museum curatorship, editorial work with art publishing firms, or independent practice of creative painting, sculpture, or graphics.

The curriculum is reinforced by visits to frequently changing exhibitions of art sponsored by the Department in the University Art Gallery and by group or independent study of masterpieces at the Detroit Institute of Arts and private collections. The Department arranges annual campus exhibitions of outstanding works by advanced majors in studio art.

Students who wish to major in art are requested to consult with the chairman of the Department during their first semester on campus.

Requirements for the Liberal Arts Major in Art History

Nine departmental courses are required, exclusive of University Courses. At least one, but no more than three, courses may be drawn from the studio area. Admission to major standing ordinarily requires completion of UC 017, UC 035, the social science sequence, and UC 047. UC 047 should be taken during the first or second semester.

Requirements for the Liberal Arts Major in Studio Art

Nine departmental courses are required, including the practice of painting, sculpture, and printmaking. Three courses must be in art history. The requirements for major standing are identical with those for the major in art history.

Requirements for the Secondary Teaching Minor in Art

Four studio and art history courses are required, beyond UC 047. Two of these courses must be ART 333 and 381. For further information, consult the Chairman of the Art Department or the Director of the Teacher Education Program.

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

Semester 1	Semester 2	Semester 3	Semester 4
UC 016	UC 017	ART 333 or 381	ART 226 or 308
UC 034	UC 035	Foreign Language	ART 351 or 371
Foreign Language	Foreign Language	Social Science	Foreign Language
UC 047 or UC 049	UC 049 or UC 047	Elective	Social Science
Semester 5	Semester 6	Semester 7	Semester 8
ART 351 or 383	ART	ART	ART
Area Studies	Area Studies	ART (400-level)	ART 480 or 491
Elective ¹	Elective ¹	Science-Math	Science-Math
Elective	Elective	Elective	Elective

¹German 101-102 or 114-115 is urged, and may be required, as a directed elective.

ART 226 Introduction to Studio Arts

Fundamental technique of drawing, painting and three-dimensional construction.

Prerequisites: Open to art majors and minors who have completed UC 047 and one course in art history; and, with permission of the Department, open to others who have completed UC 047 and one course in art history.

ART 326 Painting

Study and practice of painting in oil, water color, and related media. Designed mainly for art majors and minors.

Prerequisites: UC 047, ART 226, and one course in art history.

ART 328 Sculpture

The study of techniques of creative work in third-dimensional and relief form using traditional and recent media.

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

ART 333 Art of the United States

American art from the Colonial settlements to the end of the Nineteenth Century, with emphasis on the relation to European, especially English, art and the developments from those influences.

Prerequisite: UC 047

ART 351 Primitive Art

The major artistic styles of Africa, Oceania, and the Americas. Influences of primitive art upon recent Western art are considered.

Prerequisite: UC 047

ART 361 Architecture and Sculpture of the Middle Ages

A study of major cathedrals and sculptural styles of Medieval Europe and their relation to secular architecture and decoration.

Prerequisite: UC 047

ART 369 Renaissance Art

An investigation of architecture, painting, and sculpture of the Fifteenth and Sixteenth Centuries in Italy and Northern Europe. Emphasis is given to the major artistic figures and their relationship with the development of Renaissance art. Such topics as humanism, the revival of classical antiquity, perspective, and the graphic arts are considered.

Prerequisite: UC 047

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

ART 381 Art of the Twentieth Century

A study and interpretation of modern art in Europe and the United States from 1905 to the present. Painting and sculpture are emphasized and the contributions of Picasso, Matisse, and the early masters of abstract style are discussed.

Prerequisite: UC 047

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.

ART 426 Advanced Painting

The development of techniques and ideas in creative painting.
Prerequisites: Major standing in art and completion of two studio courses.

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.

Prerequisites: UC 047 and one course in art history.

ART 480 Seminar in Art History

Individually assigned topics in various areas of the history of art.

Prerequisite: Permission of the Department.

ART 491 Special Problems in Art

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

Prerequisite: Art majors may apply to the Department for admission during their sixth semester.

BIOLOGY

Professors:

Clifford V. Harding, Chairman

Walter L. Wilson

The courses in biology are designed for students in two types of majors: 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 are necessary.

The secondary education biology-chemistry teaching major is designed for the student wishing to teach in these areas in 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

Seventeen courses are required in the major and corequisites:

- 8 courses in biology including BIO 323
- 3 courses in chemistry
- 2 courses in physics
- 2 courses in mathematics
- 2 additional courses in chemistry, mathematics, or physics

Admission to major standing requires three courses in biology and two in chemistry.

Requirements for the Secondary Teaching Major in Biology-Chemistry

Thirteen courses are required:

- 5 courses in biology
- 4 courses in chemistry
- 2 courses in physics
- 2 courses in mathematics

Various teaching minors may be arranged. The following education courses are required: ED 244-245, ED 428, ED 455.

Admission to major standing requires three courses in biology, two courses in chemistry, acceptance by the department of biology and concurrent acceptance into the Teacher Education Program.

LIBERAL ARTS MAJOR IN BIOLOGY
(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	BIO 107	BIO 221
MTH 154	MTH 155	Chemistry	Science Elective
UC 016	BIO 106	UC 017	Art-Music
UC 034	UC 035	Social Science	Social Science
Semester 5	Semester 6	Semester 7	Semester 8
BIO 222	BIO 323	BIO 342	Biology
PHY 251	PHY 252	Science Elective	Biology
Art-Music	Area Studies	Elective	Elective
Language	Language	Area Studies	Elective

SECONDARY TEACHING MAJOR IN BIOLOGY-CHEMISTRY

(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	BIO 107	BIO 221
MTH 154	MTH 155	Chemistry	Chemistry
UC 016	BIO 106	UC 017	Art-Music
UC 034	UC 035	UC 054	ED 244
Semester 5	Semester 6	Semester 7	Semester 8
BIO 222	BIO 323	Elective	ED 428
PHY 251	PHY 252	Elective	ED 455
ED 245	Minor	Directed Option	
Language	Language	Area Studies	

BIO 106-107 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.

Corequisite: CHM 114 or 115.

BIO 221 Vertebrate Anatomy and Physiology

Detailed study of vertebrate anatomy and physiology through an intensive study of selected vertebrate types.

Prerequisite: BIO 107

BIO 222 Histology

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

Prerequisite: BIO 107

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 221, 222.

BIO 342 Genetics

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

Prerequisite: BIO 221 and permission of instructor.

BIO 405 Special Topics

Prerequisite: Permission of instructor.

BIO 463 Cell Biology

Prerequisite: BIO 221 and permission of instructor.

BIO 471 Physiology

Prerequisite: BIO 221 and permission of instructor.

Corequisite: CHM 351

BIO 490 Independent Research

Individual laboratory work.

Prerequisite: Permission of instructor.

DEPARTMENT OF CHEMISTRY

Associate Professor:

Paul Tomboulian, Chairman

Assistant Professors:

Gottfried Brieger

James Davis

Steven Miller

Frederick Obear

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 described below is intended for those students planning graduate studies, or work in research and analytical laboratories. The undergraduate 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

Fourteen courses are required in the major and corequisites: nine courses in chemistry, including CHM 335, 416, 442; three courses in mathematics, completed before the fifth semester (MTH 154-155, 258 or 259); two courses in physics (PHY 251-252). Admission to major standing requires three courses in chemistry and two courses in mathematics.

Requirements for the Secondary Teaching Major in Chemistry

Thirteen or fourteen courses are required: a major requiring eight courses in chemistry and a minor requiring five courses in physics *or* mathematics, or a group minor requiring six courses in physics *and* mathematics, or other minors to 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 three courses in chemistry, two courses in mathematics, acceptance by the Department of Chemistry, and concurrent acceptance into the Teacher Education Program.

Requirements for a Teaching Minor

Five chemistry courses are required.

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

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	CHM 234	CHM 335
MTH 154	MTH 155	PHY 251	PHY 252
UC 016	UC 017	MTH 258	Social Science
UC 034	UC 035	Social Science	Art-Music
Semester 5	Semester 6	Semester 7	Semester 8
CHM 341	CHM 442	CHM 416	CHM 405
LANG 101	LANG 102	Area Studies	Chemistry
Art-Music	Area Studies	Elective	Elective
Elective	Elective	Elective ¹	Elective ¹

¹Students planning graduate work should complete additional courses in chemistry, physics, and mathematics.

SECONDARY TEACHING MAJOR IN CHEMISTRY **(A typical program)**

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	CHM 234	CHM 335
MTH 154	MTH 155	PHY 251	PHY 252
UC 016	UC 017	MTH 258	Art-Music
UC 034	UC 035	UC 054	ED 244
Semester 5	Semester 6	Semester 7	Semester 8
CHM 341	CHM 442	CHM 416	ED 455
LANG 101	LANG 102	Chemistry	ED 428
ED 245	Directed Option ¹	Elective	
Area Studies	PHY or MTH	Elective	

¹One additional course chosen from the groups: art or music, the social sciences, area studies. Public Law 229 requirement must be satisfied.

CHM 114-115 Chemistry

An introduction to the study of gases, liquids, solids, atomic and molecular structure, stoichiometry, equilibria, thermodynamics, and nuclear chemistry. The laboratory includes synthetic preparations, physical properties, and the separation, purification, and qualitative and quantitative analysis of various substances.

Prerequisite: Three years of high school mathematics. Concurrent registration in MTH 154-155 is strongly recommended. Offered as a fall-winter sequence only.

CHM 234 Organic Chemistry

Functional groups, reaction mechanisms, stereochemistry, rearrangements, polymers, and natural products. Laboratory work includes organic synthesis and qualitative organic analysis.

Prerequisite: CHM 115

CHM 335 Organic Chemistry

A continuation of CHM 234. The laboratory work includes application of instrumental methods to organic analysis.

Prerequisite: CHM 234

CHM 341 Physical Chemistry

Physical interpretation of chemical phenomena, including thermodynamics, phase transitions, equilibria, and electrochemistry. Laboratory emphasizes physical-chemical techniques.

Prerequisites: CHM 115 and MTH 155. PHY 251 is highly desirable.

CHM 351 Biochemistry

Proteins, enzymes, cellular nutrition, energetics of biological reactions, photosynthesis, biological oxidations, metabolism of carbohydrates, lipids and nitrogen compounds; with laboratory.

Prerequisites or corequisites: CHM 335 and 341.

CHM 361 Radiochemistry

Nuclear structure and stability, nuclear reactions, reaction probabilities, decay schemes, biological effects of radiation, dosimetry, production of radioisotopes, and tracer applications; with laboratory.

Prerequisite: Permission of the Department.

CHM 405 Selected Topics

Advanced study in special areas; seminars, laboratory work, and readings. May be taken for 4 or 8 credits per semester. May be taken for one or more semesters.

Prerequisite: Permission of the Department.

CHM 416 Inorganic Chemistry

The development of atomic theory, chemical periodicity, coordination compounds, and nonaqueous systems. Laboratory work includes synthetic preparation, as well as instrumental methods in inorganic chemistry.

Prerequisite or corequisite: CHM 442

CHM 442 Physical Chemistry

A continuation of CHM 341, emphasizing the molecular basis of chemistry. Kinetic theory of gases, reaction kinetics, molecular structure, and spectroscopy. Includes laboratory.

Prerequisites: PHY 252, and MTH 258 or 259.

CHM 490 Research

Library and laboratory practice in research. May be taken for 4 or 8 credits per semester. May be taken for one or more semesters.

Prerequisite: Permission of the Department.

DEPARTMENT OF CLASSICAL LANGUAGES AND LITERATURES

Assistant Professor:

Howard Clarke, Acting Chairman

Instructor:

J. Norman Austin

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 UC 017, UC 035, 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 UC 017, UC 035, 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. Twenty semester credits in education also are required. Admission to major standing requires UC 017, UC 035, 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.

Prerequisite: UC 017

CLS 115 Classical Mythology

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

Prerequisite: UC 017

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.

Prerequisite: UC 017

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

Associate Professor:

John E. Maher

Assistant Professor:

Robbin R. Hough, Acting Chairman

Marshall M. Levinson

Instructor:

Edward Starr

ECONOMICS

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 (the latter two should be taken in the first year). Admission to major standing requires UC 017, UC 035, EB 216, and EB 217.

LIBERAL ARTS MAJOR IN ECONOMICS

(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
UC 056	MTH 131	EB 217	EB 216
Foreign Language	Foreign Language	Foreign Language	Foreign Language
MTH 125	UC 017	UC 035	UC 058 or UC 052
UC 016	UC 034	Elective	Art-Music
Semester 5	Semester 6	Semester 7	Semester 8
ECONOMICS	ECONOMICS	ECONOMICS	EB 480
Area Studies	Area Studies	Science	Elective
Art-Music	Social Science Elect	Elective	Elective
Elective	Elective	Elective	Elective

BUSINESS ADMINISTRATION

The program in business emphasizes a broad general education and the development of an analytical approach that will enable students to devise new answers to the increasingly complicated and changing problems faced by the business community. Because education for business is a lifelong process, we seek to give students the kind of education that will provide the foundation for self-education during their business careers. Consequently, the basic principles of business practice are emphasized. The business major obtains the necessary background for entering training programs of business or graduate schools of business.

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 (taken in the first two semesters), and MTH 321. Admission to major standing requires UC 017, UC 035, EB 216, and EB 217.

LIBERAL ARTS MAJOR IN BUSINESS ADMINISTRATION (A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
UC 034	EB 217	EB 216	EB 301
UC 016	UC 035	UC 054	UC 052 or 058
UC 056	UC 017	Art-Music	Area Studies
MTH 125	MTH 131	Elective ¹	Elective ¹
Semester 5	Semester 6	Semester 7	Semester 8
ECON-BUS	ECON-BUS	ECON-BUS	EB 442
Pol Sci or Soc	ECON-BUS	ECON-BUS	EB 435
Art-Mus or Area St	Science	MTH 321	PSY 261
LANG 101	LANG 102	Elective	Elective

¹Must be taken in non-business, non-economics, non-mathematics area.

EB 216 Micro-Economic Analysis

Analysis of prices, output, and distribution at the level of the individual firm.

Prerequisites: UC 056 and MTH 131.

EB 217 Macro-Economic Analysis

Study of factors determining the level of national income and employment.

Prerequisites: UC 056 and MTH 125.

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 Business Fluctuations and Economic Forecasting

Analysis and empirical testing of business-cycle theories. Preparation of economic forecasts for the individual firm and the national economy. Offered in fall semester.

Prerequisite: EB 217

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 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 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 ENGINEERING SCIENCE

Professor:

William Hammerle, Chairman

Lecturers:

William H. McDougald

Henry Ostrowski

The program in engineering science is designed to provide a broad 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.

In addition to preparing graduates for industrial positions, the program is also designed for students planning to pursue part-time or full-time graduate work in electrical, mechanical, or chemical 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 courses in mathematics, physics, and chemistry 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 total block of sixteen technical courses is designed to provide the firm academic base valuable 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 ES 405, ES 484, and ES 490 are available for further study in 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 normally taken during the sophomore and junior years consist entirely of open-ended experiments. With the instructor acting solely as a consultant, each student is expected to design, assemble, analyze, and carry out his own experiments. He is encouraged to use the student machine shops and the electronics shop to construct apparatus not otherwise available and may call upon an instrument maker or an electronics technician for aid in designing the more complex pieces of equipment.

Every graduate in engineering should be familiar with elementary drafting, machine shop practice, and the programming of digital computers. Non-credit courses in these subjects are normally offered every other semester. Since these skills are useful in many of the regular courses, every student is advised to learn them as early in his program as possible.

Requirements for the Major in Engineering Science

Completion of a major in the Department of Engineering Science leads to the degree of Bachelor of Science. The requirements for this major include: twelve courses outside the Division of Science and Engineering; nine courses in chemistry, mathematics, physics, including CHM 115, MTH 258, MTH 259, and PHY 472; seven courses in engineering, normally including ES 354, ES 431, and ES 347 or ES 445; at least two additional courses in engineering, both taken in a field chosen by the student after consultation with his adviser.

Admission to major standing requires CHM 115, PHY 252, and MTH 258.

Entering students planning to major in engineering science 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.

MAJOR IN ENGINEERING SCIENCE (A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	ES 223	ES 344
MTH 154	MTH 155	PHY 251	PHY 252
UC 016	UC 017	MTH 258	MTH 259
UC 034	UC 035	Art-Music	Social Science

Semester 5	Semester 6	Semester 7	Semester 8
ES 343	ES 431	ES 354	ES
ES 346	ES	ES	Elective
Foreign Language	Foreign Language	PHY 472	Elective
Elective ¹	Elective ¹	Area Studies	Elective ¹

¹Outside the Division of Science and Engineering.

ES 223 Statics and Dynamics

Vector mechanics including the conditions of equilibrium, structural mechanics, friction, kinematics, Newton's laws, momentum, energy, and rotation.

Prerequisite: MTH 154

ES 343 Thermodynamics

The laws of thermodynamics, entropy, cyclic processes, reactions, equilibrium, and mixtures; with laboratory.

Prerequisites: CHM 114 and PHY 251.

ES 344 Electric Circuits

Resistance, inductance, magnetic circuits, transformers, capacitance, alternating circuits, transient analysis, non-sinusoidal voltages, network analysis, and electrical measurements; with laboratory.

Prerequisites: PHY 251 and MTH 155.

ES 346 Electronics

Vacuum tubes, transistors, power supplies, A.C. equivalent circuits, amplifiers, feedback, and oscillators; with laboratory.

Prerequisite: ES 344

ES 347 Advanced Electronics

Selected topics in the analysis and design of electronic circuits; with laboratory.

Prerequisite: ES 346

ES 354-355 Transport Processes

Topics in the kinematics and dynamics of perfect, compressible, and viscous fluids; turbulence; momentum and energy transport; static and dynamic heat flow; with laboratory.

Prerequisites: ES 343 and MTH 259.

ES 405 Special Topics

Advanced study in special areas by seminars or readings. May be taken more than once.

Prerequisite: Permission of the Department.

ES 431-432 Structure of Matter

An introduction to the structure of crystalline and amorphous solids, with applications to the strength and other properties of engineering materials; with one semester of laboratory.
Prerequisites: ES 223 and PHY 252.

ES 445 Electric and Magnetic Fields

Electrostatics including solutions of Laplace's equation, magneto-statics, Maxwell's equations, and electromagnetic waves.
Prerequisites: PHY 252 and MTH 258.

ES 484 Analysis and Design of Systems

A seminar or laboratory on the design of equipment and systems; topics to be chosen by the student in consultation with the instructor. May be taken more than once.
Prerequisites: ES 431 and permission of the Department.

ES 490 Research

Independent study or laboratory work on advanced problems in engineering for the exceptional student. May be taken more than once.
Prerequisite: Permission of the Department.

DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE

Professor:

Robert Hoopes, Chairman

Associate Professors:

Maurice F. Brown

Thomas Fitzsimmons

William Schwab

Mrs. Gertrude M. White

Assistant Professors:

John G. Blair

Richard E. Quaintance, Jr.

Lecturer:

Mrs. Joan G. Rosen

Assistant Instructor:

Miss Rosalie A. Ficker

Requirements for the Liberal Arts Major in English

Nine departmental courses, two of which are specified: ENG 315 and *either* ENG 311 or 316. Seven additional courses must be taken from departmental offerings. Each major must complete

two courses in the literature (300-400 level) of a foreign language, classical or modern. Admission to major standing requires UC 017, UC 035, and one 200 level English course.

Requirements for the Secondary Teaching Major in English

Eight departmental courses, four of which are specified: *either* ENG 303 or ENG 305, *either* ENG 205 or 315, *either* ENG 311 or 316, and *any one* course in American literature; four additional courses must be taken from departmental offerings. Admission to major standing requires UC 017, UC 035, one 200 level English course, acceptance by the Department of English, and concurrent acceptance into the Teacher Education Program.

Requirements for the Secondary Teaching Minor in English

Three departmental courses in addition to UC 016-017. One of these courses must be in American literature.

ENG 200 Major Literary Forms

An introduction to the analysis of one of the following: poetry, novel, drama, biography, satire, epic. Specific form announced whenever course is offered. May be taken for credit more than once, provided form is not repeated. The following forms are scheduled: Novel—Fall 1964; Drama—Winter 1965; Satire—Spring 1965; Poetry—Fall 1965; Biography—Winter 1966; Epic—Spring 1966.

Prerequisite: UC 017

ENG 204 The Nature of Language

An introduction to principles of linguistics; the description, comparison, and history of languages, the grammar of English, problems of usage, dialect geography, differences between speech and writing, techniques of language teaching and learning, and the relationship of language to culture.

Prerequisite: UC 017

Fall 1965

ENG 205 Shakespeare

Reading and discussion of a majority of the plays. Satisfies Shakespeare requirement in English major for secondary teaching major. Recommended but not required of liberal arts majors.

Prerequisite: UC 017

Fall 1965; Spring 1966

ENG 224 American Writers

Selected major American writers from the beginning to the Civil War.

Prerequisite: UC 017

Spring 1965

ENG 225 American Writers

Selected major American writers from the Civil War to the present.

Prerequisite: UC 017

Fall 1965

ENG 285 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.

Prerequisite: UC 017

Fall 1964; Winter 1966

ENG 300 Topics in Literature and Language

Special topics and problems as selected by the instructor. May be taken for credit more than once, provided topic is not repeated. The following are scheduled: Classicism and Romanticism—Winter 1965; Science and Humanism in the Seventeenth Century—Fall 1965; Tragedy—Winter 1966; Modern Drama—Spring 1966.

Prerequisites: UC 017 and one 200-level English course.

ENG 303 Modern English Grammar

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

Prerequisite: UC 017 and one 200-level English course.

Fall 1964; Spring 1965

ENG 305 History of the English Language

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

Prerequisites: UC 017 and one 200-level English course.

Fall 1965

ENG 307 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.

Prerequisite: UC 017 and one 200-level English course.

Winter 1966

ENG 311 Chaucer

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

Prerequisites: UC 017 and one 200-level English course.

Winter 1965; Fall 1965

ENG 315 Shakespeare

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

Prerequisites: UC 017 and one 200-level English course.

Winter 1965; Winter 1966

ENG 316 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*.

Prerequisites: UC 017 and one 200-level English course.

Fall 1964; Spring 1966

ENG 345 Medieval Literature

Dominant forms and themes in English literature 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 *Beowulf*, *Gawain and the Green Knight*, Langland, Malory, Skelton.

Prerequisites: UC 017 and one 200-level English course.

Winter 1966

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.

Prerequisites: UC 017 and one 200-level English course.

Spring 1965

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.

Prerequisites: UC 017 and one 200-level English course.

Spring 1966

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.

Prerequisites: UC 017 and one 200-level English course.

Fall 1965

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.

Prerequisites: UC 017 and one 200-level English course.

Fall 1964

ENG 385 Modern Literature

Modern British, American, and/or Continental literature, with special concentration on the work and development of a single writer.

Prerequisites: UC 017 and one 200-level English course.

Spring 1965

ENG 395 Nineteenth-Century American Literature

An introduction to problems of research and literary criticism in American literature. Intensive reading of specified literary texts and extensive reading in relevant historical, biographical, and critical materials.

Prerequisites: UC 017 and one 200-level English course.

Fall 1964; Winter 1966

ENG 400 Advanced Topics in Literature and Language

Special topics and problems as selected by the instructor. May be taken for credit more than once, provided topic is not repeated. The following topic is scheduled: Linguistic Analysis—Winter 1965.

Prerequisite: ENG 203

ENG 401 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.

Prerequisites: Any combination of four 200- and 300-level English courses.

Fall 1964

ENG 431 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.

Prerequisites: Any combination of four 200- and 300-level English courses.

Winter 1965

ENG 480 Seminar

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

Prerequisites: Any combination of four 200- and 300-level English courses. Winter 1965; Fall 1965; Winter 1966

ENG 490 Independent Reading

Directed reading and research designed exclusively for senior English majors.

Prerequisite: Permission of the instructor.

DEPARTMENT OF HISTORY

Professors:

Charles O. Huckler, Chairman (East Asia)

George T. Matthews (Early Modern Europe)

Associate Professors:

Peter Amann (Modern Europe)

Melvin Chernow (Modern Europe)

Robert Howes (Russia and China)

Assistant Professors:

John V. Barnard (American and English)

Leonardas Gerulaitis (Medieval Europe)

Instructor:

David Burner (United States)

The Department of History consists of professional scholars engaged in the specialized study of American, British, European, Russian, and Chinese history and particularly of the intellectual, socioeconomic, 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, careful 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 UC 017, UC 035, the social science sequence, and four semesters of foreign language study. Completing the major requires eight departmental courses exclusive of University Courses. One of the eight must be a 400-level course. A normal program will involve work in more than one field of history. Each liberal arts major must also complete at least a year's work (two courses) in a foreign language, classical or modern, in addition to the University Course prescription regarding language study. This requirement may be satisfied in either of two ways: (a) by continuing study in the language offered to satisfy University Course degree requirements or (b) by studying a second foreign language.

Requirements for the Secondary Education Teaching Major in History

Admission to major standing requires UC 017, UC 035, UC 054, three semesters of foreign language study, 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 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 may NOT elect a social science minor.

Requirements for the Secondary Education Teaching Minor in History

Completing a teaching minor requires UC 034-035 and three courses in history, including HST 214-215. Secondary teaching majors in the social sciences are strongly advised not to elect this minor.

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

Semester 1 UC 016 UC 034 Social Science Foreign Language	Semester 2 UC 017 UC 035 Social Science Foreign Language	Semester 3 HISTORY Art-Music Foreign Language Elective	Semester 4 HISTORY Art-Music Foreign Language Elective
Semester 5 HISTORY Area Studies Foreign Language Elective	Semester 6 HISTORY Area Studies Foreign Language Elective	Semester 7 HISTORY HISTORY Science-Math Elective	Semester 8 HISTORY HISTORY Science-Math

SECONDARY TEACHING MAJOR IN HISTORY (A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
UC 016	UC 017	HST 214	HST 215
UC 034	UC 035	ED 244	ED 245
UC 054	Art-Music	Foreign Language	Minor
Foreign Language	Foreign Language	Elective	Directed Option ¹
Semester 5	Semester 6	Semester 7	Semester 8
HISTORY	HISTORY	HISTORY	ED 428
HISTORY	HISTORY	HISTORY	ED 455
Area Studies	Science-Math	Science-Math	
Minor	Elective ²	Minor	

¹One additional course chosen from the groups: art or music, the social sciences, area studies.

²The second semester of area studies is strongly recommended as an elective.

Courses numbered 200-299 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 200-299 and 300-399 levels.

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 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.

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

Prerequisites: For 214, UC 035; for 215, HST 214.

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.

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.

Prerequisite: UC 035

HST 227, 247, 248, 249 Introduction to European History

A coordinated series of courses offering an introduction to the chief epochs of European history from c. 400 A.D. 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. These courses need not be taken in sequence.

HST 227 (Medieval Europe, 400-1300) examines the development of the European Middle Ages.

HST 247 (Europe, 1300-1715) emphasizes the development of the modern state and the state system.

HST 248 (Europe, 1715-1870) studies Europe in the age of liberal revolutions.

HST 249 (Europe Since 1870) analyzes Europe in an age of recurrent crisis.

Prerequisite: UC 035

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.

Prerequisite: UC 035

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 311 The Age of Jackson

The economic, political, and social development in the United States from 1824 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 215

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 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 important social movements and of the influences bringing social change. Special problems will include evangelism, popular culture, social Darwinism, sexual mores, nativism, and reform movements.

Prerequisite: HST 215

HST 324 The Ancient Historians

(Identical with Classics III)

HST 326 The Renaissance

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

Prerequisite: UC 035

HST 327 The Reformation

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

Prerequisite: UC 035

HST 331 Tudor England

The political, social, and cultural life of England in the age of the Tudor dynasty. Emphasis is on individual reading, discussion, and special reports.

Prerequisite: HST 234

HST 332 Stuart England

The revolutionary period of seventeenth-century England; political and cultural aspects will be emphasized. Emphasis is on individual reading, discussion, and special reports.

Prerequisite: HST 234

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 234

HST 334 Victorian and Edwardian England

The political, cultural, and intellectual life of England to the outbreak of World War I. Emphasis is on individual reading, discussion, and special reports.

Prerequisite: HST 234

HST 341 Postwar Europe in its World Setting

A study of both Eastern and Western Europe since World War II, stressing the problems of reconstruction and readaptation to an altered world power structure. Special attention is paid to the problem of European unification.

Prerequisite: UC 035

HST 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.

Prerequisite: UC 035

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.

Prerequisite: UC 035

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).

Prerequisite: UC 035

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.

Prerequisite: 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 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.

Prerequisite: 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. Offered every semester.

Prerequisite: Permission of the Department.

DEPARTMENT OF MATHEMATICS

Professors:

James H. McKay, Chairman
John W. Dettman

Associate Professor:

Beauregard Stubblefield

Assistant Professor:

Donald G. Malm

Instructor:

Thomas M. Jenkins

The Department of Mathematics offers a full program of courses for a liberal arts major in mathematics or a teaching major in mathematics. In addition, the department teaches several courses which are required or used as electives in other programs of the university.

Requirements for the Liberal Arts Major in Mathematics

Fourteen courses are required, distributed as follows: nine courses in mathematics (MTH 125, 131, 314, 315, and 316 may not be used to satisfy this requirement, and the student is advised to complete MTH 451 and at least one semester of MTH 405.); three courses in one area related to mathematics (Area and courses should be selected in consultation with the adviser.); two courses in physics (PHY 251-252). Admission to major standing requires at least four courses in mathematics, including MTH 258 or 259.

Requirements for the Secondary Teaching Major in Mathematics

Seventeen or eighteen courses are required, distributed as follows: eight courses in mathematics (MTH 131, 314, 315, and 316 may not be used to satisfy this requirement.); five or six courses in a minor (If the minor is in one department, five courses are required; otherwise, six courses are needed. A group minor of six courses in science is recommended, but other minors may be arranged. If the minor is not in science, the program must include two semesters of science.); four courses in education (ED 244, 245, 428, and 455). Admission to major standing requires at least four courses in mathematics, including MTH 258 or 259, acceptance by the Department of Mathematics, and concurrent acceptance into the Teacher Education Program.

Requirements for the Secondary Teaching Minor in Mathematics

Five courses in mathematics are required, including MTH 154-155. (It is recommended that the other courses be selected from MTH 125, 361, 373, and 374.)

LIBERAL ARTS MAJOR IN MATHEMATICS (A typical program)

Semester 1 UC 016 UC 034 MTH 154 CHM 114 ¹	Semester 2 UC 017 UC 035 MTH 155 CHM 115 ¹	Semester 3 Art-Music Social Science MTH 258 PHY 251	Semester 4 Foreign Language MTH 373 MTH 259 PHY 252
Semester 5 Foreign Language Art-Music Social Science MTH 374	Semester 6 Foreign Language Related Subject Elective ² MTH 361	Semester 7 Foreign Language Area Studies Elective ² MTH 451	Semester 8 Elective ² Area Studies Elective ² MTH 461

¹CHM 114-115 is not required, but students often select science as the area related to mathematics.

²Students planning to attend graduate school should take additional mathematics.

SECONDARY TEACHING MAJOR IN MATHEMATICS (A typical program)

Semester 1 UC 016 UC 034 MTH 154 CHM 114 ¹	Semester 2 UC 017 UC 035 MTH 155 CHM 115 ¹	Semester 3 Art-Music UC 054 MTH 258 PHY 251 ¹	Semester 4 ED 244 MTH 373 MTH 259 PHY 252 ¹
Semester 5 Foreign Language ED 245 Minor MTH 374	Semester 6 Foreign Language Directed Option ² Minor or Elective MTH 361	Semester 7 Area Studies Minor or Elective MATHEMATICS MATHEMATICS	Semester 8 ED 428 ED 455

¹Only two semesters of science are required, but students are encouraged to complete a group minor in science.

²Directed Option is one additional course selected from art or music, the social sciences, or area studies. Public Law 229 must be satisfied.

MTH 125 Introduction to Probability and Statistics

Elementary set theory, sample spaces, combinatorics, random variables, Chebyshev's inequality, Bernoulli trials, binomial distribution, joint distribution, and introduction to statistics.

Prerequisite: 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.

Prerequisite: Three years of high school mathematics, including trigonometry.

* **MTH 154-155 Calculus**

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

Prerequisite: Three years of high school mathematics, including trigonometry.

X **MTH 258 Advanced Calculus**

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

Prerequisite: MTH 155

X **MTH 259 Advanced Calculus**

A study of linear differential equations, Fourier series, and partial differential equations.

Prerequisite: MTH 155

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.

Prerequisite: Two years of high school mathematics.

X **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, set theory, and combinatorial topology. Includes an analysis of axiom systems, ruler and compass constructions, equations of lines, circuits, and graph theory.

Prerequisite: Two years of high school mathematics.

MTH 321 Mathematical Statistics

A study of continuous random variables and probability distributions. Includes the law of large numbers, central limit theorem, and many of the common statistical estimates and tests.

Prerequisites: MTH 125 and MTH 131, or MTH 155

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 374 Modern Algebra

A development of the important properties of algebraic structures, including groups, rings, integral domains, and fields.

Prerequisite: MTH 373

MTH 405 Special Topics

Advanced study of some topic in mathematics. The course usually operates on an independent study or tutorial basis. Some possible topics are: complex analysis, logic and foundations, probability theory, number theory, differential geometry, numerical analysis, or applied mathematics. The course may be taken more than once.

Prerequisite: Permission of the Department.

MTH 451 Foundations of Analysis

A rigorous study of continuity, differentiation, integration, and uniform convergence for real-valued functions of a real variable.

Prerequisite: MTH 259

MTH 461 Topology

Elementary point-set topology with additional topics chosen from homotopy theory, knot theory, homology theory, or more advanced general topology.

Prerequisite: MTH 374 (MTH 451 is strongly recommended)

MTH 490 Independent Study

Library research on some mathematical topic.

Prerequisite: Permission of the Department.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

Professor:

Francis P. Tafoya, Chairman (French)

Associate Professors:

Robert Simmons (German)

Norman Susskind (French)

Assistant Professors:

James O. Bailey, Jr.

Alfred DuBruck (French)

Don Iodice (French)

Mrs. Helen Kovach (Russian)

Jack R. Moeller (German)

Amitendranath Tagore (Chinese)

Lecturer:

Mrs. Dolores Burdick (French)

Instructors:

William C. Bryant (Spanish)

Mrs. Genevieve Prevost (French)

Serge Shishkoff (Russian)

Mrs. Birgitta Vance (Spanish)

Special Instructor:

Mrs. Carmen M. Urla (Spanish)

Assistant Instructor:

Gerhard Gomille

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.

Courses are offered in all languages considered official in the United Nations: Chinese, French, Russian, Spanish, and also in German. Students may earn a liberal arts degree in preparation for work in graduate school or prepare for secondary and elementary teaching in all of the languages taught except Chinese.

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 the 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 valuable in assigning students to the 109- or 114-series courses in French 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 210 or 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 210 or 215 or who have completed 56 semester hours of work and who contemplate registering for any language course beyond 210 or 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 (or 210 with special permission). Ordinarily these include two sequences—Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences to be taken concurrently), and five courses in

literature at the 400-499 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.

Admission to major standing requires UC 035, UC 017, and four courses in a single foreign language: that is, through language 215 (or 210 with special permission). 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 (or 210 with special permission). Ordinarily these include two sequences—Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences to be taken concurrently), language 301, and three 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 210 with special permission) 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 400-499 level as their schedules will permit. For complete details on other requirements, including courses in education and an outline of the typical program, see page 132.

LIBERAL ARTS MAJOR IN MODERN LANGUAGE¹
(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
LANG 214 ¹	LANG 215 ¹	LANG 261	LANG 262
UC 016	UC 017	LANG 271	LANG 272
UC 034	UC 035	Art-Music	Art-Music
Social Science	Social Science	Elective	Elective
Semester 5	Semester 6	Semester 7	Semester 8
Major	Major	Major	Major
Area Studies	Area Studies	Major	Science-Math
Elective	Elective	Science-Math	Elective
Elective	Elective	Elective	Elective

**SECONDARY TEACHING MAJOR IN
MODERN LANGUAGE¹**
(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
LANG 214 ¹	LANG 215 ¹	LANG 261	LANG 262
UC ² 016	UC 017	LANG 271	LANG 272
UC 034	UC 035	ED 244	ED 245
UC 054	Art-Music	Minor	Directed Option ²
Semester 5	Semester 6	Semester 7	Semester 8
Major	Major	Major	ED 428
Area Studies	Minor	Major	ED 455
Elective	Science-Math	Science-Math	
Elective	Elective	Elective	

¹Students 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.

²One additional course chosen from the groups: art or music, the social sciences, area studies. Public Law 229 requirement must be satisfied.

CHINESE

CHE 114-115 First Year Chinese

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

CHE 214-215 Second Year Chinese

Continued study of *Kuo-yu* with increasing emphasis on reading and composition. May be conducted as a tutorial.

Prerequisite: CHE 114-115 or permission of the instructor.

CHE 270 Selections from Chinese Literature

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

Prerequisites: CHE 215 and permission of the instructor.

FRENCH

FRH 109-110 First Year French

Elements of grammar, pronunciation, and conversation with extensive reading and translation 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 209-210.

FRH 114-115 First Year French

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 209-210 Second Year French

Review of grammar, practice in writing and speaking. Extensive reading and translation of literary and cultural texts.

Prerequisite: FRH 110 or an appropriate placement examination score.

FRH 214-215 Second Year French

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 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 210 or 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 210 or FRH 215, or an appropriate placement examination score. Especially qualified freshmen may be admitted.

FRH 285 Main Currents of French Thought and Literature

Man and society as seen in the works of representative authors since the Renaissance, including Montaigne, Pascal, Moliere, Voltaire, Rousseau, Zola, Gide, Sartre, or others. Lectures and readings.

Prerequisite: UC 017

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 385 Principal Trends in Modern France

Intellectual tendencies from Bergsonism to Existentialism, as reflected in the works of authors such as Proust, Gide, Mauriac, Malraux, Camus, Sartre, and others. Lectures and readings in English. Not open to French majors.

Offered in alternate years.

Prerequisite: Major standing in any department and permission of the instructor.

FRH 411 Literature of the French Renaissance

Philosophical and esthetic ideas in the works of the principal authors of the period, including Marot, Marguerite de Navarre, Rabelais, the Pleiade, Montaigne, and d'Aubigne. Conducted in French.

Offered in alternate years.

Prerequisite: FRH 272

FRH 421, 422 Seventeenth Century French Literature

FRH 421 deals with the development and character of French classicism: Descartes, Pascal, the novels of D'Urfe and Mme de La Fayette, the theatre of Corneille and Racine.

FRH 422 is principally a study of Moliere and La Fontaine. Selections from the great prose writers: La Rochefoucauld, Mme de Sevigne, Bossuet, La Bruyere, Fenelon, 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 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 Goncourt, and de Maupassant. These courses are conducted in French and offered in alternate years.

Prerequisite: FRH 272

FRH 443 French Poetry of the Symbolistic Movement

The esthetics and poetic innovations of Symbolism. Study of the theoretical writing and poetry of Baudelaire, Verlaine, Rimbaud, and Mallarme. Review of the legacy of Symbolism. 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 *Theatre Libre*. Theatrical innovations and reforms of Copeau, Jouvet, Baty, Dullin, and others. Primarily a study of Claudel, Giraudoux, Anouilh, Montherlant, Camus, Sartre, and the recent experiments of Ionesco and Beckett. Conducted in French and offered in alternate years.

Prerequisite: FRH 272

FRH 453 Twentieth Century French Poetry

French poetry since the turn of the century. The legacy of Symbolism, Dadaism, Surrealism *la poesie pure*, and the principal themes of contemporary poetry. Primarily a study of Apollinaire, Claudel, Valery, Eluard, Aragon, and St. John-Perse. Conducted in French and offered in alternate years.

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.

GERMAN LANGUAGE AND LITERATURE

GRM 101-102 Reading in German

Designed to help students acquire a reading knowledge of German. Material ranges from elementary and intermediate texts of general interest to specialized texts in the student's major field. This course may not be offered as partial fulfillment of the degree requirement in foreign languages by students who must take the regular (more than two semester) courses, but may be taken as an elective with special permission.

GRM 114-115 First Year German

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.

GRM 214-215 Second Year German

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.

Prerequisite: 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: UC 017

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 385 Modern Intellectual Developments in Germany

A survey of intellectual history since the turn of the century, the heritage of Marx, Nietzsche, and Freud, the existentialist philosophers Heidegger and Jaspers, the literature of Expressionism and succeeding periods. Lectures and readings in English. Not open to German majors.

Offered in alternate years.

Prerequisite: Major standing in any department and permission of the 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

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 or 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

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

RUS 214-215 Second Year Russian

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

Prerequisite: 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.

Prerequisite: 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.

Prerequisite: RUS 215 or evidence of proficiency and permission of the Department. Especially qualified freshmen may be admitted.

RUS 285 Main Currents of Russian Literature

Selected works by authors from the beginning of the nineteenth century to the present, including Pushkin, Lermontov, Gogol, Turgenyev, Tolstoy, Dostoevsky, Chekhov, Gorky, Bunin, Sholokhov, and Pasternak. Lectures and readings in English. Not open to Russian majors.

Offered in alternate years.

Prerequisite: UC 017

RUS 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 Russian authors. Strongly recommended for all students, especially those planning to teach at the elementary level. Required for secondary teaching majors. Prerequisite: RUS 262

RUS 426 Russian Poetry of the First Half of the Nineteenth Century

A comprehensive study of the major Russian poets of the period from 1800 to 1840: Zhukovsky, Pushkin, 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 and with special emphasis on Tiutchev, Fet, A. Tolstoy, Nekrassov, and Blok.

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 433 Russian Drama

Survey of Russian drama from Griboedov to 1930. Includes review of the development of dramatic techniques.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

RUS 434 Russian Prose from Gogol to Saltykov Shchedrin

Development of Russian novel and short story. Includes selections from Gogol, Goncharov, Turgenev, Saltykov Shchedrin and critical essays by Herzen, Chernyshevsky, and Dobroliubov.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

RUS 435 Russian Prose from Leskov to Gorky

Study of works by the major novelists and short-story writers of the late nineteenth century: Leskov, Garshin, Korolenko, Chekhov, and Gorky.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

RUS 441 Tolstoy

Study of Tolstoy's novels, short stories, and essays; Tolstoy the moralist and the influence of his philosophy on Russian thought and letters.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

RUS 442 Dostoevsky

Study of Dostoevsky's literary and ideological evolution. The influence of Dostoevsky as psychological novelist and moral philosopher on Russian thought and letters.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

RUS 448 Russian Literature in the Early Twentieth Century

Study of the period immediately before and after the Soviet Revolution. Includes principal works by Andreev, Kuprin, Bunin, Maiakovsky, Zoshchenko, and Sholokhov, as well as works by emigre writers such as Zaitsev and Remizov.

Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272

RUS 450 Survey of Soviet Literature

Selected works of the most important writers after 1930, such as A. N. Tolstoy, Ostrovsky, Ehrenburg, Paustovsky, Fadeev, Pasternak, Dudintsev, or others.

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 109-110 First Year Spanish**

Elements of grammar, pronunciation, and conversation with extensive reading and translation 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 SPN 209-210.

SPN 114-115 First Year Spanish

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 SPN 214-215.

SPN 209-210 Second Year Spanish

Review of grammar, practice in writing and speaking. Extensive reading and translation of literary and cultural texts.

Prerequisite: SPN 110 or an appropriate score on a placement examination.

SPN 214-215 Second Year Spanish

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 210 or 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 210 or SPN 215, or an appropriate score on a placement examination. Especially qualified freshmen may be admitted.

SPN 285 Survey of Spanish Literature

Principal dramatists, novelists, and essayists from the Golden Age to the present, including Cervantes, Lope de Vega, Tirso de Molina, Galdos, Baroja, Unamuna, Ortega y Gasset, Cela, or others. Lectures and readings in English. Not open to Spanish majors. Offered in alternate years.

Prerequisite: UC 017

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 385 Intellectual Trends in Modern Spain

The struggle between traditionalism and liberalism, its background and manifestations in Spanish thought and letters from the turn of the century through the Civil War. Emphasis on Unamuno, Ortega y Gasset and present-day writers, including Cela, Goytisolo, and Laforet. Lectures and readings in English. Not open to Spanish majors.

Offered in alternate years.

Prerequisite: Major standing in any department and permission of the 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 Zorrila, Moreto, Quinones de Benavente, and selections from the *autos sacramentales*. Conducted in Spanish and offered in alternate years.

Prerequisite: SPN 272

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.

DEPARTMENT OF MUSIC

Professors:

Walter S. Collins, Chairman
Sixten Ehrling

Associate Professor:

George V. Cripps

Assistant Professors:

David Di Chiera
Wilbur Kent

Instructor:

Robert Facko

Assistant Instructor:

Clive Henery

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, etc. (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, music management, or the music industry, etc. (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 vocal 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 active choral and instrumental 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*

Nine departmental courses are required beyond UC 049; of these six are in music theory and composition (MUS 211, 212, 311, 312, 411, 412), and three are in music history and literature (MUS 321, 322, and any one of MUS 331, 332, 421). German is the recommended foreign language for this major. Admission to major standing requires UC 017, UC 035, UC 047, UC 049, and MUS 211.

Each major must also satisfy the following three requirements: (1) Demonstration by public recital 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 minimum proficiency at the keyboard. A description of this requirement is available from the Department; it may be satisfied by passing a qualifying examination administered by the Department no later than the end of the fourth semester or by completion of MUS 371 with a grade of 2.0 or better. All prospective music majors are urged to acquire as much keyboard facility as possible *before* entering the University. (3) Participation for eight semesters in a recognized performing group at the University.

*Requirements for the Liberal Arts Major
in Music History and Literature*

The requirements are nine departmental courses beyond UC 049, of which five are in music theory (MUS 211, 212, 311, 312, 411) and four are in music history and literature (MUS 321, 322, 421, 422). 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. Eight departmental courses are required beyond UC 049: MUS 211, 212, 311, 312, 321, 322, 351, and 411. The following education courses are required: ED 244-245, ED 428, and ED 455. Admission to major standing requires UC 017, UC 035, UC 047, MUS 211, acceptance by the Department of Music, and concurrent acceptance into the Teacher Education Program. All other requirements for the major in music theory and composition also apply to this major.

LIBERAL ARTS MAJOR IN MUSIC
(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
MUS 211	MUS 212	MUS 311	MUS 312
UC 016	UC 017	UC 047	MUS 321
UC 049	UC 034	UC 035	Social Science
Foreign Language ¹	Foreign Language ¹	Foreign Language ¹	Foreign Language ¹
Semester 5	Semester 6	Semester 7	Semester 8
MUS 411	MUSIC	MUSIC	Science-Math
MUS 322	Area Studies	Area Studies	Elective
Social Science	Elective	Science-Math	Elective
Elective	Elective	Elective	Elective

¹German is recommended.

TEACHING MAJOR IN MUSIC
(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
MUS 211	MUS 212	MUS 311	MUS 312
UC 016	UC 017	UC 054	MUS 321
UC 049	UC 034	UC 035	ED 244
Foreign Language ¹	Foreign Language ¹	Foreign Language ¹	Elective
Semester 5	Semester 6	Semester 7	Semester 8
MUS 411	MUS 351	Minor ²	ED 428
MUS 322	Area Studies	Area St or Soc Sci	ED 455
ED 245	Science-Math	Science-Math	
UC 047	Elective	Elective ³	

¹German is recommended.

²MUS 352 is recommended.

³Public Law 229 must be satisfied.

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 211-212-311-312 Music Theory

A four-semester sequence designed to develop sound musicianship, with constant emphasis on its usefulness in study, performance and teaching. Included are such topics as music reading, ear training and dictation, written harmony, keyboard harmony, form and analysis, and arranging. Sequence begins each fall semester.

Prerequisite: Permission of the instructor.

MUS 321 Music History and Literature to 1750

History and literature of music through the Baroque Period. Suggested as an elective for nonmusic majors. Offered each fall semester.

Prerequisite: 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. Suggested as an elective for nonmusic majors. Offered each winter semester.

Prerequisite: 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 351-352 Vocal and Choral Techniques

The methods and materials of singing in groups and individually. Includes singing lessons as well as the subject matter contained in courses usually called choral conducting, choral literature, vocal methods, and vocal materials. Sequence begins each summer semester.

Prerequisites: MUS 312 and MUS 322

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 411-412 Advanced Music Theory

An integrated study of the materials of music and the techniques of its composition. Includes elementary and advanced aspects of courses usually called form and analysis, counterpoint, orchestration, and composition. MUS 411 to be offered fall semester 1964.

Prerequisite: MUS 312

MUS 490 Directed Research in Music History

A program of directed individual reading and research designed for advanced music history majors.

Prerequisite: Permission of the instructor.

DEPARTMENT OF PHILOSOPHY

Professor:

James C. Haden, Chairman

Assistant Professors:

Richard J. Burke

Alfred Lessing

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 UC 035, UC 017, the social science or the art and music sequence, and PHL 201 (or PHL 204).

LIBERAL ARTS MAJOR IN PHILOSOPHY
(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
UC 016	UC 017	PHL 201	PHL 204
UC 034	UC 035	Art-Music	Art-Music
Foreign Language	Foreign Language	Foreign Language	Foreign Language
Social Science	Social Science	Elective	Elective
Semester 5	Semester 6	Semester 7	Semester 8
PHL 205	PHL 206	PHL 300-399	PHL 300-399
PHL 300-399	PHL 300-399	Science-Math	PHL 490
Area Studies	Area Studies	Elective	Science-Math
Elective	Elective	Elective	Elective

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.

Prerequisite: UC 034

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.

Prerequisite: UC 035

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: UC 035 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.

Prerequisite: UC 035. 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: UC 017, 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.

Prerequisite: UC 035

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.

Prerequisite: UC 035. 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.

Prerequisite: UC 035. 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.

Prerequisite: UC 035. 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.

Prerequisite: UC 035. 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.

Replaces PHL 365, Plato and PHL 366, Aristotle.

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.

Replaces PHL 381, Kant.

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

Assistant Professor:

Paul A. Tipler

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

Fifteen courses are required, distributed as follows: nine courses in physics (251, 252, 332, 344, 346, 361, 421, 472); four courses in mathematics (including MTH 258 and 259); two courses in chemistry (CHM 114-115). Admission to major standing requires two courses in chemistry, three courses in mathematics, and two courses in physics.

Requirements for the Secondary Teaching Major in Physics

Nineteen courses are required, distributed as follows: eight courses in physics (251, 252, 332, 344, 346, 361, 421, 472); four courses in mathematics (including MTH 258 and 259); two courses in chemistry (CHM 114-115); four courses in education (ED 244-245, 428, 455). Public Law 229 must be satisfied. Admission to major standing requires two courses in chemistry, three courses in mathematics, two courses in physics, acceptance by the Department of Physics, and concurrent acceptance into the Teacher Education Program.

Teaching Minor

Five physics courses are required.

LIBERAL ARTS MAJOR IN PHYSICS (A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	PHY 251	PHY 252
MTH 154	MTH 155	MTH 258	PHY 344
UC 016	UC 017	Art-Music	MTH 259
UC 034	UC 035	Social Science	Social Science
Semester 5	Semester 6	Semester 7	Semester 8
PHY 332	PHY 361	PHY 421	PHY 473
PHY 346	PHY 347	PHY 472	PHY 445
FOR LANG 101	FOR LANG 102	Art-Music	PHY 490
Area Studies	Area Studies	Elective	Elective

SECONDARY TEACHING MAJOR IN PHYSICS (A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	PHY 251	PHY 252
MTH 154	MTH 155	MTH 258	MTH 344
UC 016	UC 017	UC 054	MTH 259
UC 034	UC 035	Art-Music	ED 244
Semester 5	Semester 6	Semester 7	Semester 8
PHY 332	PHY 361	PHY 421	ED 428
PHY 346	FOR LANG 102	PHY 472	ED 455
FOR LANG 101	Area Studies	Elective	
ED 245	Elective	Elective	

PHY 251-252 Introductory Physics

An introduction to mechanics, electricity and magnetism, sound, optics, heat, and modern physics for students majoring in mathematics, science, or engineering science; with laboratory.

Prerequisites: MTH 154 for PHY 251; MTH 155 for PHY 252

PHY 332 Optics

Geometrical optics, optical instruments, wave theory of reflection, refraction, interference, diffraction, and polarization of light; with laboratory.

Prerequisite: PHY 252

PHY 344 Electric Circuits

Resistance, inductance, magnetic circuits, transformers, capacitance, alternating currents, transient analysis, nonsinusoidal voltages, network analysis, electrical measurements; with laboratory.

Prerequisites: MTH 155 and PHY 251

PHY 346 Electronics

Vacuum tubes, transistors, power supplies, A.C. equivalent circuits, amplifiers, feedback, and oscillators; with laboratory.

Prerequisite: PHY 344

PHY 347 Advanced Electronics

Selected topics in the analysis and design of electronic circuits; with laboratory.

Prerequisite: PHY 346

PHY 361 Mechanics

Applications of Newton's laws to particles, systems of particles, oscillators, central forces, accelerated reference frames, and rigid bodies.

Prerequisites: PHY 251 and MTH 258

PHY 405 Special Topics

Prerequisite: Permission of the Department.

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 251 and MTH 258

PHY 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

PHY 472 Modern Physics

Relativity, the experimental bases of atomic physics and quantum mechanics, introduction to quantum mechanics; with laboratory.

Prerequisites: PHY 252 and MTH 258

PHY 473 Advanced Modern Physics

Selected topics in nuclear and solid state physics; with laboratory.

Prerequisites: PHY 472 and MTH 259

PHY 490 Independent Study and Research

Individual readings, conferences, and laboratory work on advanced problems in physics. This course is intended only for students who have shown ability and a thorough understanding of the fundamentals of physics and mathematics.

Prerequisite: Permission of the Department.

DEPARTMENT OF POLITICAL SCIENCE

Associate Professors:

Edward J. Heubel, Chairman

Sheldon Appleton

Assistant Professors:

Roger H. Marz

David Potter

Carl R. Vann

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 and PS 221. Admission to major standing requires successful completion of those two courses and one other political science course.

LIBERAL ARTS MAJOR IN POLITICAL SCIENCE
(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
UC 16	UC 17	POL SCI ²	POL SCI ²
UC 34	UC 35	Art-Music	Art-Music
Social Science ¹	Social Science ¹	Foreign Language	Foreign Language
Foreign Language	Foreign Language	Elective	Elective
Semester 5	Semester 6	Semester 7	Semester 8
POL SCI	POL SCI	POL SCI	POL SCI
POL SCI	POL SCI	Science-Math	Science-Math
Area Studies	Area Studies	Elective	Elective
Elective	Elective	Elective	Elective

¹Should include UC 052.

²Should include PS 221.

PS 204 The American Political System

Interpretation and Analysis Studies of the American political system, ranging from classic interpretations to the most recent efforts to analyze and explain our political system.

Prerequisite: UC 052

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

Replaces PS 421

PS 231 Politics of Great Britain and Western Europe

Comparative analysis of Western European politics, concentrating on Great Britain. In addition to readings on British politics, the class is asked to play the role of cabinet and opposition to resolve issues drawn from the records of recent Parliaments. Aspects of Canadian, French, German, Italian, and Scandinavian governments are studied to determine the bases of modern constitutional democracies.

Prerequisite: UC 052

Replaces PS 301

PS 235 Politics of Latin America

Analysis of the political systems of Latin America and the historical, social, and economic factors underlying them. The major countries (Argentina, Brazil, and Mexico) 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

Replaces PS 302

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 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

Replaces PS 441

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 351 Public Administration

Intensive study of government in action, with special attention to policy formulation, organization, personnel administration, supervision, co-ordination, administrative control and accountability. Case studies from several countries are used to illustrate administrative principles.

Prerequisite: UC 052

PS 430 Seminar in the Comparative Study of Political Systems

Prerequisite: PS 231 or PS 235

PS 490 Special Topics in Political Science

Prerequisite: Consent of the Department.

Replaces PS 480

DEPARTMENT OF PSYCHOLOGY

Associate Professors:

David C. Beardslee, Acting Associate Dean
for Social Sciences
Harvey Burdick, Acting Chairman
Donald Hildum

Assistant Professor:

David G. Lowy

Instructor:

Richard A. Kammann

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. The aims of the program for majors are to provide an adequate basis for those wishing to go on to the specialized professional roles in graduate school and to provide an understanding of the psychologist's way of thinking for the major who does not go in psychology.

Requirements for the Liberal Arts Major in Psychology

This major requires nine courses in psychology, which must include UC 054, PSY 246, 351, 353, 361, and 363. Admission to major standing requires UC 017, UC 035, the social science sequence, and PSY 246.

LIBERAL ARTS MAJOR IN PSYCHOLOGY (A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
UC 034	UC 035	PSY 246	Elective ³
UC 016	UC 017	Foreign Language	Foreign Language
Social Science	Social Science ¹	Art-Music	Art-Music
Foreign Language	Foreign Language	Elective ²	Elective ²
Semester 5	Semester 6	Semester 7	Semester 8
PSY 351	PSY 353	PSYCHOLOGY	PSYCHOLOGY
PSY 361	PSY 363	PSYCHOLOGY	Science-Math
Area Studies	Area Studies	Science-Math	Elective
Elective	Elective	Elective	Elective

¹One of these should be UC 054.

²Ordinarily a year course capable of leading to some other major.

³It is recommended that a social science course be taken here.

PSY 246 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 251 Abnormal Psychology

The psychodynamics of abnormal behavior, clinical types, methods of investigation, and principles of psycho-therapy. Occasional field trips to nearby institutions. (Normally offered in the Fall Semester.)
Prerequisite: UC 054

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

PSY 351 Experimental Psychology

Techniques and findings in the investigation of the basic psychological process of sensation, perception, learning, memory, and thinking are studied.
Prerequisites: UC 054, PSY 246 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: UC 054 and PSY 246

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, or 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. (Next offered Fall, 1965.)

Prerequisites: PSY 351 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.

Prerequisite: 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.

Prerequisite: 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.

Prerequisite: Three courses in psychology.

PSY 490 Individual Research

Individual research projects under supervision of a member of the Department. May be taken for one or two semesters.

Prerequisite: Permission of the instructor.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Professor:

Jesse R. Pitts, Chairman

Instructor:

Emil Oestereicher

The aim of the department is to provide all majors with a sound understanding of the basic contributions and points of view of sociology and anthropology, as well as to acquaint them with the more important and relevant theoretical and research developments. As much as possible, this is done from a cross-cultural perspective. In addition, the program is devised to provide majors with the necessary background and understanding to continue in this area of work, whether on the graduate level, in social work, or in related fields.

The departmental major is deliberately constructed to leave as much freedom of choice to the student as possible. That is, majors in the department are urged not to take more than the minimum of departmental courses, but to use every opportunity to obtain as broad an education as possible.

Requirements for the Liberal Arts Major in Sociology and Anthropology

Nine departmental courses are required, including UC 058, AN 102, SOC 311, and SOC 321. Of the remaining five courses, two must be chosen from each of the following areas:

Area A: SOC 220, 231, 235, 254, and 255

Area B: SOC 333, 341, 350, and AN 351

Admission to major standing requires UC 017, UC 035, and the Social Science Sequence including UC 058.

LIBERAL ARTS MAJOR IN SOCIOLOGY AND ANTHROPOLOGY

(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
AN 102	UC 017	SOC-ANTH	SOC-ANTH
UC 016	UC 035	Art-Music	Art-Music
UC 034	UC 058	Social Science	Foreign Language
Foreign Language	Foreign Language	Foreign Language	Elective

Semester 5	Semester 6	Semester 7	Semester 8
SOC 311	SOC 321	SOC-ANTH	SOC-ANTH
Area Studies	Area Studies	Science-Math	SOC-ANTH
Elective	Elective	Elective	Science-Math
Elective	Elective	Elective	Elective

AN 101 Introduction to Physical Anthropology and Archaeology

The study of primates, fossil man, and evolution, problems of heredity and genetics, and problems of race and racial classification.

AN 102 Introduction to Cultural Anthropology

The study of the nature of culture and methods and theories of cultural anthropology. Characteristic features of language, family life, rituals, and values of tribal peoples in many parts of the world are considered.

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. Not offered in 1964-65.

Prerequisite: UC 058 or AN 102

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: UC 058

SOC 235 The Family

A comparative and historical treatment of the background of contemporary problems of this institution. Functions, forms, and processes are discussed.

Prerequisite: UC 058

SOC 254 Urban Sociology

An analysis of the various causes, characteristics, and effects of urbanization in several different cultures of the world. Specific attention is given to the problems of urban and suburban living and to the changing structure of the city.

Prerequisite: UC 058

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 direction of occupational life in America.

Prerequisite: UC 058

SOC 311 Sociological Theory

A critical examination of basic concepts of sociology and their current theoretical and empirical status. Writings of Marx, Weber, Durkheim, Cooley, G. H. Mead, Park, Lasswell, and Parsons will be examined. The object of the course is to stimulate evaluation of existing theories and to explore the major tasks of synthesis.

Prerequisite: UC 058

SOC 321 Social Research

A comprehensive survey of the various research strategies and techniques in sociological research. Emphasis will be placed on the methodological problems in current social research.

Prerequisite: UC 058

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: UC 058

SOC 471 Principles of Social Work

A preprofessional course in social work, designed as an introduction to the field. Emphasis is on theories which underline practice.

Prerequisites: UC 058 and permission of the instructor.

SOC 480 Readings in Sociology

A tutorial course in which the student will pursue a course of reading and discussion with the instructor.

Prerequisites: UC 058 and permission of the instructor.

SOC 490 Independent Study and Research

Prerequisites: UC 058 and permission of the instructor.

INTERDEPARTMENTAL PROGRAMS AND COURSES

TEACHER EDUCATION PROGRAM

Professor:

L. J. Hetenyi, Program Director

Assistant Director:

Peter G. Evarts

Assistant Professors:

Mrs. June E. Gabler

Francis X. Russo

Lecturer:

Harry T. Hahn

Instructor:

Marc E. Briod

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. For one, it is a University-wide responsibility rather than the exclusive concern of a single department. 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.

Secondary Teaching Majors

Prospective secondary school teachers have a choice of any one of twelve teaching majors. Consult the sections of the catalog appropriate to the fields of concentration for specific courses and requirements for major standing.

Biology-Chemistry	(See p. 61)	Mathematics	(See p. 88)
Chemistry	(See p. 64)	Music (Vocal)	(See p. 110)
English	(See p. 76)	Physics	(See p. 118)
French	(See p. 95)	Russian	(See p. 95)
German	(See p. 95)	Spanish	(See p. 95)
History	(See p. 81)	Social Science	(See p. 134)
Latin	(See p. 67)		

Seven teaching minors are available to the prospective secondary school teacher:

Art	(See p. 58)	Mathematics	(See p. 88)
Chemistry	(See p. 64)	Physics	(See p. 118)
English	(See p. 76)	Social Science	(See p. 135)
History	(See p. 81)		

Elementary Teaching Majors

Prospective elementary school teachers may choose to concentrate in one of four areas: general teaching, foreign language, mathematics, or music.

Requirements for the Elementary Teaching Major— General Program

This program is designed for students who wish to teach elementary grades. No separate minors need to be selected since the program already includes an appropriate distribution of courses. The program requires ten departmental courses: English 204; History 214-215; Music 149; Mathematics 314-315-316; Science 305; one additional course in science and one additional course in history or social science. Admission to major standing requires a 2.00 average in UC 016-17, UC 034-35, UC 054, and one additional UC social science course, Ed 244-245, and acceptance by the Department of Teacher Education.

Requirements for the Elementary Teaching Major—Science and Mathematics Concentration

This program is designed for students who wish to work in this field in the grades or junior high school. The Science and Mathematics Concentration requires eleven departmental courses: CHM 114-115; MTH 314-315-316; MUS 149; SCI 305; two additional science courses; two mathematics or science courses. Admission to major standing requires a 2.00 average in UC 016-17, UC 034-35, UC 054, ED 244; two approved courses in either chemistry or mathematics; and concurrent acceptance by the Division of Science and Engineering and the Department of Teacher Education.

Requirements for the Elementary Teaching Major—Foreign Language Concentration

This program is designed for students who wish to work in this field in the grades or junior high school. The Modern Language concentration requires six departmental courses: MTH 314; SCI 305; four language courses beyond the 215 level (or 210 with special permission). Admission to major standing requires a 2.00 average in UC 016-17, UC 034-35, UC 054, ED 244, three approved courses in a single language and concurrent acceptance by the Department of Modern Languages and the Department of Teacher Education.

Elementary Major—Music Concentration

This program is designed for students who wish to teach music at *either* elementary *or* secondary levels. This program is described on page 110.

ELEMENTARY EDUCATION—TEACHING MAJOR GENERAL PROGRAM

(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
UC 016	UC 017	ED 244	ED 245
UC 034	UC 035	ENG 204	MTH 314
Social Science ¹	Social Science ¹	HST 214	HST 215
Foreign Language	Foreign Language	Foreign Language	Elective
Semester 5	Semester 6	Semester 7	Semester 8
MTH 315	MTH 316	Science	ED 433
MUS 149	Area Studies	ED 331	ED 455
Area Studies	SCI 305	UC 047	
Elective	Approved Elect ²	Elective	

¹Must include UC 054.

²A course in history, social science, or area studies.

ELEMENTARY EDUCATION—TEACHING MAJOR
Science and Mathematics Concentration and Social Science
Minor¹

(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
CHM 114	CHM 115	Science ²	MTH 314
Mathematics ²	Mathematics ²	UC 054	ED 244
UC 016	UC 017	UC 047	Social Science
UC 034	UC 035	Elective	Area Studies
Semester 5	Semester 6	Semester 7	Semester 8
MTH 315	SCI 305	Science	ED 455
FOR LANG 101	MTH 316	Math or Science ¹	ED 433
ED 245	Area Studies	ED 331	
MUS 149	FOR LANG 102	Elective ²	

¹For other minors consult adviser or Director of Teaching Education Program.

²Specific courses selected in consultation with adviser.

ELEMENTARY EDUCATION—TEACHING MAJOR
Modern Language Concentration and Social Science Minor¹

(A typical program)

Semester 1	Semester 2	Semester 3	Semester 4
Language	Language	Language	Language
UC 034	UC 035	ED 244	ED 245
UC 016	UC 017	Area Studies	Area Studies
Social Science ²	Social Science ²	Elective	Art-Music
Semester 5	Semester 6	Semester 7	Semester 8
Language	Language	ED 331	ED 433
Language	Language	Science	ED 455
Art-Music	SCI 305	Approved Elect ³	
MTH 314	Elective	Approved Elect ³	

¹For other minors consult adviser or Director of Teacher Education Program.

²Must include UC 054.

³Selected with the approval of the Department of Modern Languages and Literatures.

Sponsorship for Michigan Teacher Certification

The State Department of Public Instruction 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 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 (where applicable) an 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 Teacher 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.

Certification Programs for Graduates

For graduates of accredited institutions who wish to be certified 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 Teacher Education Office 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 by the Teacher Education Program. Successful completion of such a program leads to sponsorship by Oakland University for the appropriate Michigan Provisional Certificate.

ED 244 Social and Philosophic 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 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.

Prerequisites: UC 034 and UC 017

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 UC 054

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 Director of the Teacher Education Program.

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, and permission of both the student's major department and the Director of the Teacher Education Program. 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.

SOCIAL SCIENCE PROGRAM*Requirements for the Teaching Major in the Social Sciences*

This major has been devised for students who plan to teach the various Social Sciences 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. The concentration which the student selects is of sufficient intensity to meet the requirements of such accrediting groups as the North Central Association. The major requires Social Psy-

chology, (UC 054), Area Studies and seven (7) courses selected from economics, political science, and sociology in one of the combinations indicated below:

The following combinations are possible:

Five (5) in *either* Economics, *or* Political Science, *or* Sociology *and* two (2) courses from one of the two (2) remaining fields in this group.

Or a concentration and one course from each of two fields outside the concentration.

UC courses in each of these fields may be counted toward the course total.

ED 244-45, ED 428, and ED 455, are also required.

A number of minors may be selected to accompany the Social Science major. English is a desirable minor, History, though possible, is usually less desirable since it may limit the placement opportunities for graduates. Admission to major standing requires successful completion of two major social science courses beyond the UC course and concurrent acceptance into the Teacher Education Program.

Requirements for the Social Science Minor

Six courses. These must include Western Institutions (UC 034-035) and four courses selected from economics, political science, psychology, sociology, and area studies.

Students majoring in the Social Sciences or History may NOT elect this minor.

THE CONCENTRATION IN AREA STUDIES

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Charles O. Hucker, Chairman (History)

Robert Hoopes (English)

Edward J. Heubel (Political Science)

Jesse R. Pitts (Sociology and Anthropology)

Francis P. Tafoya (Modern Foreign 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.

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 (beyond University Course requirements) 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 UC 035, UC 017, four semesters of foreign language study, and the social science sequence. Interested students should consult with the chairman of the Committee on Area Studies as early in their college careers as possible.

Semester 1	Semester 2	Semester 3	Semester 4
UC 016	UC 017	Art-Music	Art-Music
UC 034	UC 035	Language	UC Area Studies
Social Science	Social Science	Language	Major
Language	Language	Major	Language or Area Course
Semester 5	Semester 6	Semester 7	Semester 8
Science-Math	Science-Math	Major	AS 490
UC Area Studies	Major	Elective	Area Studies
Major	Language or Area Course	Language or Area Course	Elective
Language or Area Course	Language or Area Course	Language or Area Course	Elective

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.

Prerequisite: 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.

Prerequisite: senior standing, and consent of the instructor.

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 405 Selected Topics in Science

Advanced study in special areas.

Prerequisite: Permission of the Instructor.



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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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OAKLAND UNIVERSITY

1. North Foundation Hall
2. South Foundation Hall
3. Oakland Center
4. Kresge Library
5. Science & Engineering
6. Intramural Building
7. Hill House
8. Fitzgerald House
9. Anibal House
10. Pryale House
11. Classroom - Office Building (Fall 1965)



