

1174

# Oakland University

1968-69  
Catalog



ROCHESTER  
MICHIGAN

## OFFICIAL PUBLICATIONS OF OAKLAND UNIVERSITY

### Academy of Dramatic Art

Prospectus published annually in February.

### Division of Continuing Education

Catalog published twice yearly in September and January.

### Meadow Brook Summer School of Music

Prospectus published annually in March.

### Oakland University Undergraduate Programs

Catalog published annually in July.

### Oakland University Graduate Programs

Graduate Bulletin published annually in August.

## CORRESPONDENCE DIRECTORY

Mailing address: Oakland University, Rochester, Michigan 48063.

Officers of the University will be pleased to answer questions. For prompt attention address specific inquiries to the officers listed below.

### Admissions Information and Bulletins

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### Admissions: Academy of Dramatic Art

Assistant to the Director

### Admissions: Meadow Brook Summer School of Music

Dean of the School

### Business Matters

Director of Business Affairs

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Director, Placement Office

### Continuing Education

Dean of Continuing Education

### Educational Program, Transcripts, Academic Reports

The Registrar

### Loans- and On-Campus Employment

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New Students—Director of Admissions

Upperclassmen—Financial Aid Officer

### Student Affairs and Services

Dean of Students

### Student Housing

Director of Student Housing

Telephone: Area Code 313 338-7211

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**OAKLAND  
UNIVERSITY**

**Catalog  
1968-1969**

**Rochester, Michigan**



# University Calendar 1968-69

## FALL SEMESTER

September 4	Wednesday	Convocation Exercises
September 5, 6	Thurs., Fri.	Registration
September 9	Monday	Classes begin
November 28-December 1	Thurs.-Sun.	Thanksgiving recess
December 2	Monday	Classes resume
December 13	Friday	Classes end
December 14	Saturday	Final examinations begin
December 18	Wednesday	Final examinations end

## WINTER SEMESTER

January 3, 4	Fri., Sat.	Registration
January 6	Monday	Classes begin
March 1-4	Sat.-Tues.	Winter recess
March 5	Wednesday	Classes resume
April 11	Friday	Classes end
April 14	Monday	Final examinations begin
April 18	Friday	Final examinations end
April 19	Saturday	Commencement

## SPRING SESSION

April 29	Tuesday	Registration
April 30	Wednesday	Classes begin
May 30	Friday	Holiday
June 19	Thursday	Classes end
June 20, 21	Fri., Sat.	Final examinations

## SUMMER SESSION

June 23	Monday	Registration
June 24	Tuesday	Classes begin
July 4	Friday	Holiday
August 13	Wednesday	Classes end
August 14, 15	Thurs., Fri.	Final examinations

## 1969-70

### FALL SEMESTER

September 2, 3	Tues., Wed.	Registration
September 4	Thursday	Classes begin
November 27-30	Thurs.-Sun.	Thanksgiving recess
December 1	Monday	Classes resume
December 12	Friday	Classes end
December 15	Monday	Final examinations begin
December 19	Friday	Final examinations end

### WINTER SEMESTER

January 5, 6	Mon., Tues.	Registration
January 7	Wednesday	Classes begin
March 5-8	Thurs.-Sun.	Winter recess
March 9	Monday	Classes resume
April 14	Tuesday	Classes end
April 16	Thursday	Final examinations begin
April 21	Tuesday	Final examinations end
April 25	Saturday	Commencement

### SPRING SESSION

April 29	Wednesday	Registration
April 30	Thursday	Classes begin
May 29	Friday	Holiday
June 18	Thursday	Classes end
June 19, 20	Fri., Sat.	Final examinations

### SUMMER SESSION

June 22	Monday	Registration
June 23	Tuesday	Classes begin
July 3	Friday	Holiday
August 11	Tuesday	Classes end
August 12, 13	Wed., Thurs.	Final examinations

This calendar is subject to revision.

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William K. Marshall	Director, University Book Center
Arthur R. Young, M.D.	University Physician



# OAKLAND UNIVERSITY

## Academic Structure and Programs

Oakland University, an institution supported by the State of Michigan, reflects in its academic structure and in its undergraduate and graduate curricula a maturing realization of the mandate given to the University at its founding by Michigan State University authorities and by its own Foundation and consultants. Among the germinal concepts then recommended to the emergent University several have had an especially marked effect in determining the direction and the level of courses of instruction. These were: that its students should be broadly educated, whatever their choice of profession; that its curriculum should emphasize quality and depth of study; that instruction in specific disciplines should focus primarily on principles and basic ideas, rather than on transitory applications or techniques; that its community of learning should be so structured as to enable its faculty effectively to help the students to educate themselves; and that its students should gain knowledge of other cultures, particularly of those non-Western in origin.

Oakland University accordingly seeks multiple means of implementing the intent of these recommendations. The evolving academic structure of the University thus at present comprises the College of Arts and Sciences, the School of Education, the School of Engineering, the School of Performing Arts. The Meadow Brook Summer School of Music and the Academy of Dramatic Art are administrative units of the School of Performing Arts. Authorization has further been given for a school of business and economics. Diversified non-credit courses are given by the Division of Continuing Education.

Responsive to its founders' recommendations on curricula, Oakland University requires that all undergraduates in degree programs take prescribed studies in a broad range of liberal arts and sciences. This general education component, a distinctive and imaginative creation of this University, extends to all undergraduates what the University conceives to be the basis of a liberal education. Three modes of meeting this requirement are open to almost all students. They may elect, within certain specifications, a pattern of what are called University Courses, a pattern at once appropriate to their major and broadening as an intellectual experience. Or they may elect to join either Charter College or New College. Each of these colleges offers its own characteristic and stimulating version of the general education component.

This component, in any of its three forms, is intended to complement the undergraduate's studies in the field of his major, whether in the humanities, the social sciences, mathematics, the natural sciences, business administration, teacher education, or engineering. The interdisciplinary approach to teacher education, moreover, provides that every teaching major is a major in the departmental or interdepartmental programs of the College of Arts and Sciences and that every teaching major concurrently takes professional education courses in the School of Education. In conjunction with the major, students in certain disciplines may intensify their work in depth by electing interdepartmental concentrations in area studies, linguistics, or premedical studies. All undergraduate programs in the College of Arts and Sciences lead to the Bachelor of Arts degree.

The baccalaureate program of the School of Engineering leads to the degree of Bachelor of Science and permits preparation for many engineering occupations in industry, government, teaching, and research. Though its curriculum precludes premature specialization by the undergraduate, its core program and its flexible patterns of advanced electives prepare students for careers in electrical, mechanical, and biological engineering; in systems engineering; in materials engineering; in sales engineering and business; and in energetics.

Graduate studies at Oakland University at present comprise ten programs in the College of Arts and Sciences, the School of Education, and the School of Engineering. These programs lead to three degrees: the Master of Arts, the Master of Arts in Teaching, and the Master of Science. For further information on graduate programs, see pp. 151, 161 and 176 of this catalog and consult the *Graduate Bulletin*.

For further information on the programs of the School of Performing Arts, see pp. 178-82 of this catalog and consult the prospectus of the Academy of Dramatic Art and the prospectus of the Meadow Brook Summer School of Music. For further information on the programs of the Division of Continuing Education, see pp. 183-85 of this catalog and consult the catalog of the Division.

## History

Oakland University owes its inception to the generosity of private persons, to the vision and planning of Michigan State University authorities, to the endeavor of its Foundation, and to the scholarly wisdom of its consultants.

In 1957 Mr. and Mrs. Alfred G. Wilson gave to the Board of Trustees of Michigan State University their private estate, Meadow

Brook Farms, and two million dollars to assist in the foundation of a new university. On the estate are Meadow Brook Hall, formerly the Wilson home, and subsidiary residences and farm buildings. Much of the acreage is wooded and rolling. Oakland University buildings are concentrated on the northwest corner of the 1,600-acre campus located in Oakland County twenty-five miles north of Detroit.

Mrs. Wilson, widowed in 1962, was annually honored by the students on her birthday in a celebration marking their respect and affection. This happy tradition passed in observance but not in memory with Mrs. Wilson's death in 1967. The students of Oakland University expressed their sense of loss in a permanent memorial, the Matilda R. Wilson Memorial Collection in Kresge Library.

Following the Wilson endowment, President John A. Hannah and other administrative officers of Michigan State University initiated plans and designated fifty community leaders, later called the Oakland University Foundation, to support and to assist in forming the emergent institution. As State University leaders began curriculum studies, the new Foundation invited twenty distinguished consultants to join both groups in a series of seminars framed to examine and assess new concepts of what a university should be. Some of these consultants were Vassar College President Sarah Blanding, Professor Henry Steele Commager of Amherst, California Institute of Technology President Lee DuBridge, Johns Hopkins President Milton Eisenhower, Henry Heald of the Ford Foundation, and Henry Luce of *Time-Life* publications. From these curriculum studies and consultations Oakland University derived, as indicated in the foregoing section of this catalog, a conceptual identity, a complex of principles, and a commitment to values that have shaped its growth and informed its philosophy, yet left it free to innovate.

In September, 1959, Chancellor Durward B. Varner and a faculty of twenty-five received the charter class of 570 students. An enrollment of 4,900 is projected for September, 1968. Initially housed in three buildings, the University now has twenty. By every quantitative measure the University grows in size and complexity as response to its programs and concepts widens.

Its historical growth, however, is not measurable in scope and diversification alone. Bench marks cut by succeeding groups of its students of distinction clearly indicate the high and rising levels of its excellence. Two such bench marks are the number of University scholars designated over the years for Woodrow Wilson National Fellowship Foundation awards and the recent brilliant competitive record set by students of the Department of Mathematics in national competition. Increasing numbers of its students in all disciplines are accordingly sought by the

## Oakland University

nation's leading graduate schools. Widespread national attention has also been directed by scholars of international reputation to the quality of its youthful faculty, to the effectiveness of its teaching, and to the recognizable style of its programs.

Awareness of maturing intellectual identity motivated in 1963 the University's change in name from Michigan State University Oakland to Oakland University, a change in no way affecting its legal and administrative relationship with Michigan State University.

Other evidence of maturation in the intellectual and instructional history of Oakland University is the progressive elaboration of the basic patterns of its departmental and professional programs. From its beginnings, Oakland University curricula embraced the liberal arts and sciences, business administration, teacher education, and engineering. As the years pass, however, more sophisticated mechanisms of interdisciplinary communication change the configurations and goals of traditional specialization. In the University's Asian, Chinese, Slavic, and other area studies, in linguistics, in premedical studies, in elementary education, in social studies, in teacher education generally, in certain fields of engineering, in many subject disciplines, and in various courses offered by Charter College and New College, such stimulating cross-fertilization is taking place. Reciprocal enrichments of disciplines lending themselves to processes of sharing, exchange, concentration, amalgamation, and regeneration are characteristic of study at Oakland University now. Tomorrow new perspectives and new knowledge accruing from these innovative programs will lead to instructional means and to research findings now unforeseen.

Since 1963 Oakland University has also matured by widening the scope of its cultural influence in the realm of the performing arts. The University seeks to make a significant contribution both in the sponsorship of professional performance and in the education of professional artists. With massive support from its friends in the larger community, a first step toward this goal was taken in the summer of 1964 with the opening season of the Meadow Brook Music Festival. Housed on the campus in the newly built Howard C. Baldwin Memorial Pavilion, the Festival then presented the Detroit Symphony Orchestra in four weeks of concerts. Now internationally recognized, the Festival brings distinguished artists and ensembles to a season of eight weeks of orchestral concerts and ballet. In 1967 a resident company of professional actors, the John Fernald Company of the Meadow Brook Theatre, opened its first annual season to great critical acclaim. With these two major beginnings, both warmly support-

ed in the region, the University moved impressively towards the creation of a nationally prominent center for the performing arts.

Inversely, the effect of these activities within the University community of learning was generative of new studies. In 1965 summer music institutes in choral, vocal, orchestral, and chamber music were initiated for the professional musician. Running concurrently with the Festival and sharing in its resources of artist-teachers, the Meadow Brook Summer School of Music, now an administrative unit of the School of Performing Arts, attracts hundreds of students admitted through national competitive auditions. In 1967 the Academy of Dramatic Art, also an administrative unit of the School of Performing Arts, opened under the direction of John Fernald, formerly Principal of the Royal Academy of Dramatic Art in London. His joint directorship both of the John Fernald Company and of the Academy ensures the effective educative influence of the one upon the other.

In its first decade Oakland University has thus become a community of learning and a cultural force of a complex kind. It affects the larger community in southeastern Michigan not only through its credit programs and its performing arts events, but also, since its founding, through the highly diversified non-credit courses, conferences, and projects of the Division of Continuing Education and its subsidiary agencies, the Continuum Center for Women, the Alumni Relations Department, the Placement Department, and the Alumni Education Department. Members of the larger community, responding to these multiple influences, have in turn given creative and substantial support to the University through such organizations as the Oakland University Foundation and its Scholarship Committee, the Community Leadership Committee for the Meadow Brook Theatre, the Meadow Brook Festival Committee, the Friends of Oakland, the Friends of Kresge Library, and the Oakland University Alumni Association. Oakland University's brief history thus attests that while its primary concern is the creation and continuance of an effective community of learning, the community involved has no narrow bounds and the learning takes many forms.

## **Governance**

Oakland University is affiliated with Michigan State University. Both universities have the same President and Board of Trustees. The Board of Trustees is elected by the citizens of the State of Michigan and has ultimate authority for the development and operation of both universities. Oakland University has its own Chancellor and administrative officers. It has been since its founding free to formulate its own policies, programs, and educational philosophy and to choose its own faculty and staff.

## **Accreditation and Affiliations**

The degree programs of Oakland University participated from its founding in the full accreditation status of the programs of Michigan State University. All baccalaureate programs of Oakland University were separately accredited by the North Central Association of Colleges and Secondary Schools in August, 1966. Preliminary accreditation was granted by the Association in 1967 for master's level programs leading to the degrees of Master of Arts, Master of Arts in Teaching, and Master of Science. Accreditation has been given to the program of the Department of Chemistry by the American Chemical Society.

The University is an institutional member of the following associations:

The American Association of Colleges for Teacher Education  
The American Council on Education  
Institute of International Education, Incorporated  
Latin American Scholarship Program of American Universities

The appropriate departments of the College of Arts and Sciences are respectively institutional members of the following associations:

American Chemical Society  
American Institute of Physics  
American Mathematical Society  
Midwest Art Association  
Sigma Xi

## **Centralized Research Facilities**

### **The Computing and Data Processing Center**

The Computing and Data Processing Center is a centralized facility that supports research programs and projects at Oakland University by supplying equipment, documentation, and consulting personnel for the computative, simulative, pedagogical, and instrument-control applications of the faculty and students of all disciplines. It provides a conducive computer-oriented environment in which students can explore and complete investigative, communicative, and computative assignments and in which faculty may draw on advisory and demonstration services for their courses of instruction. The Center is located on the second floor of Dodge Hall of Engineering in especially designed quarters having full software facilities for faculty and students. It operates an IBM 360/40 computer with peripheral equipment including high-speed printer, tape drives, and disc memory units.



## **The Library**

All Oakland University library collections and services are centralized in Kresge Library, an open-stack facility. The Library presently contains approximately 125,000 volumes. The development of collections has been carefully planned to support undergraduate curricula of high quality. Now under way is a drive to build research strength for ten graduate programs. The Matilda R. Wilson Memorial Collection of reference and bibliographic works, funded by student gifts, will constitute a major addition to library holdings and afford a substantial research facility for faculty and students.

The Library offers a variety of services to the user. Service points include: the listening center, a versatile audio system; a microform reading room; the documents room, which houses archives and government publications and is a partial depository for documents issued by the United States government and by the State of Michigan; the science area, a concentration of books and periodicals in this broad subject field; a general reference department; and the circulation department, which has an automated circulation system.

## **Campus Buildings**

North Foundation Hall (1959)

Gift of Mr. and Mrs. Alfred G. Wilson. Administrative offices; University services; classrooms; faculty offices (Economics and Business Administration and Political Science).

South Foundation Hall (1959)

Gift of Mr. and Mrs. Alfred G. Wilson. Classrooms; faculty offices (Music, Meadow Brook Summer School of Music, Division of Continuing Education).

Oakland Center (1959)

Self-liquidating funds. Student activities; University Book Center; Scholar Shop; meeting rooms; food services; cleaners, barber.

Kresge Library (1961)

Gift of the Kresge Foundation. All library collections, offices, and services; Instructional Materials Center.

Science Building (1961)

Funds appropriated by the State of Michigan. Classrooms; laboratories; faculty offices (Chemistry, Mathematics, Physics, Psychology).

Intramural Sports and Recreation Building (1963)

Self-liquidating funds. Athletic offices; gymnasium; swimming

pool; rehearsal rooms of the Academy of Dramatic Art.

Charles F. Kettering Magnetics Laboratory (1963)

Gift of the Kettering Foundation. Facilities of the Magnetics Laboratory.

Howard C. Baldwin Memorial Pavilion (1964)

Gifts from multiple foundation and other private sources. Roofed pavilion, site of the Meadow Brook Music Festival.

Lulu B. Wilson Memorial Concert Shell (1964)

Gift of the Lulu B. Wilson Trust. Acoustical shell at the Baldwin Pavilion.

Trumbull Terrace (1965)

Gift of Mr. and Mrs. George T. Trumbull. Patio; food and service facilities for Baldwin Pavilion; summer quarters of the Scholar Shop.

Matilda R. Wilson Hall (1966)

Funds appropriated by the State of Michigan. Classrooms; language laboratory; John Fernald Company; Meadow Brook Theatre; University Art Gallery; Admissions, Housing, and Placement Offices; Office of the Dean of Students, of the Dean of the College of Arts and Sciences, of the Associate Dean of the School of Performing Arts; faculty offices (Academy of Dramatic Art, Art, Classical Languages and Literatures, English, History, Modern Languages and Literatures, Sociology and Anthropology).

Dodge Hall of Engineering (1968)

Funds appropriated by the State of Michigan and federal grants. Classrooms, laboratories, research facilities; Computing and Data Processing Center; Institute of Biological Sciences; Office of the Dean, the School of Engineering; Office of the Dean, the School of Education; faculty offices (Biology, Education, Engineering).

Health Center (1968)

Self-liquidating funds. Health offices and services.

Meadow Brook Hall

Gift of Mr. and Mrs. Alfred Wilson.

## **Residence Halls**

Fitzgerald House (1962)

Gift of Mr. and Mrs. Harold A. Fitzgerald, and self-liquidating funds.

Anibal House (1962)

Gift of Mr. and Mrs. B. H. Anibal, and self-liquidating funds.

Pryale House (1963)

Gift of Mr. and Mrs. Harry M. Pryale, and self-liquidating funds.

Hill House (1964)  
Gift of Mr. O. E. Hunt.

Van Wagoner Hall (1965)  
Self-liquidating funds.

Vandenberg Hall (1966)  
Self-liquidating funds.

Hamlin Hall (1968)  
Self-liquidating funds.

## UNIVERSITY CURRICULA

### **Degree Programs: Undergraduate Curricula**

The College of Arts and Sciences offers programs of instruction leading to the degree of Bachelor of Arts in a wide range of departmental and interdepartmental programs in the humanities, social sciences, mathematics, and natural sciences. These programs also provide for specialization in business administration, teacher education, and premedical studies. For further information, consult pp. 25-151 of this catalog.

The School of Engineering offers programs of instruction leading to the degree of Bachelor of Science in engineering. For complete information on the engineering major, consult pp. 167-76 of this catalog.

### **Degree Programs: Graduate Curricula**

The College of Arts and Sciences offers programs of instruction leading to the degree of Master of Arts in the fields of English, mathematics, and psychology, and programs of instruction leading to the degree of Master of Science in the fields of chemistry and physics. For further information, consult p. 151 of this catalog and the *Graduate Bulletin*.

The College of Arts and Sciences and the School of Education jointly offer programs of instruction leading to the degree of Master of Arts in Teaching in the fields of English and mathematics. For further information, consult pp. 151, 161 of this catalog and the *Graduate Bulletin*.

The School of Education offers programs of instruction leading to the degree of Master of Arts in Teaching in the fields of elementary education and reading instruction. For further information, consult p. 161 of this catalog and the *Graduate Bulletin*.

The School of Engineering offers a program of instruction leading to the degree of Master of Science in the field of systems engineering. For further information, consult p. 176 of this catalog and the *Graduate Bulletin*.

### **Curricula of the School of Performing Arts**

The School of Performing Arts offers in the Academy of Dramatic Art a credit program of instruction requiring a minimum training period of two years and leading to a Diploma in Dra-

matic Art. The curriculum is designed solely for students intending careers in the professional theatre. For further information, consult pp. 179-80 of this catalog and the prospectus of the Academy. The School of Performing Arts offers in the Meadow Brook Summer School of Music credit courses of instruction for the performing musician. Vocal, choral, and orchestral institutes are held during a six-week summer session. For further information, consult pp. 181-82 of this catalog and the prospectus of the School.

### **Curricula of the Division of Continuing Education**

The Division of Continuing Education offers adults a wide range of non-credit courses of instruction in the fields of the liberal arts and sciences, applied arts and sciences, and business and professional development. For further information, consult pp. 183-85 of this catalog and the catalog of the Division.

## COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences offers instruction leading to the degree of Bachelor of Arts and to the degrees of Master of Arts and Master of Science. Jointly with the School of Education it offers instruction leading to the degree of Master of Arts in Teaching.

### Officers of Administration

#### Office of the Dean

GEORGE T. MATTHEWS	Dean of the College
REUBEN TORCH	Associate Dean of the College
FRED W. SMITH	Associate Dean for Student Affairs Dean of Freshmen Chief Academic Adviser

### Departmental Offices

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Department of Biology  
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PAUL TOMBOULIAN, Chairman

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HOWARD W. CLARKE, Chairman

Department of Economics and Business Administration  
ROBBIN R. HOUGH, Chairman

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ROBERT G. HOOPES, Chairman

Department of History  
CHARLES W. AKERS, Chairman

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S. BERNARD THOMAS, Chairman

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Senior Colloquia Staff  
RICHARD J. BURKE, Chairman

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Professor of Psychology  
A.B., Dartmouth College; M.A., Harvard University; Ph.D., Harvard University

## Arts and Sciences

SAGHIR AHMAD Assistant Professor of Sociology  
B.A., Forman Christian College; M.A., University of Punjab; Ph.D.,  
Michigan State University

CHARLES WESLEY AKERS Professor of History  
Chairman, Department of History  
A.B., Eastern Nazarene College; A.M., Boston University; Ph.D., Boston  
University

SHELDON L. APPLETON Associate Professor of Political Science  
Chairman, Charter College  
B.A., New York University; M.A., New York University; Ph.D.,  
University of Minnesota

HARVEY J. ARNOLD Associate Professor of Mathematics  
B.A., Queen's University; M.A., Queen's University; M.A., Princeton  
University; Ph.D., Princeton University

EDWARD A. BANTEL Professor of Education  
Professor of Psychology  
(Faculty of Education)  
B.A., Columbia University; M.A., Columbia University; Ed.D., Columbia  
University

V. JOHN BARNARD Associate Professor of History  
B.A., Oberlin College; M.A., University of Chicago; Ph.D., University  
of Chicago

JOHN W. BARTHEL Assistant Professor of German  
B.S., University of Illinois; Ph.D., University of Illinois

JOHN L. BEARDMAN Associate Professor of Art  
B.A., Oberlin College; M.A., Southern Illinois University; M.F.A.,  
Southern Illinois University

DAVID C. BEARDSLEE Professor of Psychology  
Director, Office of Institutional Research  
B.A., Swarthmore College; M.S., University of Michigan; Ph.D.,  
University of Michigan

MAURICE J. BEZNOB Instructor in French  
B.A., University of Michigan; M.A., University of Michigan

ARTURO BIBLARZ Instructor in Sociology  
B.A., University of California (Los Angeles); M.A., University of  
California (Los Angeles)

JOHN G. BLAIR Associate Professor of English  
B.A., Brown University; M.A., Columbia University; Ph.D., Brown  
University

ELEUTHERIOS N. BOTSAS Assistant Professor of Economics  
B.S., University of Detroit; M.A., Wayne State University; Ph.D., Wayne  
State University

RICHARD M. BRACE Professor of History  
A.B., University of California (Berkeley); M.A., University of California  
(Berkeley); Ph.D., University of California (Berkeley)



## Arts and Sciences

- LOUIS R. BRAGG Professor of Mathematics  
A.B., West Virginia University; M.S., West Virginia University; Ph.D.,  
University of Wisconsin
- PERRY M. BRAKKE Instructor in Art  
B.A., University of Minnesota; M.F.A., Yale University
- DAVID C. BRICKER Instructor in Education  
(Faculty of Education)  
B.A., Amherst College; M.A.T., Johns Hopkins University
- GOTTFRIED BRIEGER Associate Professor of Chemistry  
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## Undergraduate Curriculum in Arts and Sciences

### General Requirements for the Degree of Bachelor of Arts

There are four sets of requirements which a student must fulfill in order to graduate with the degree of Bachelor of Arts. These are:

#### I. THE RESIDENCE REQUIREMENT

In order to graduate with the degree of Bachelor of Arts, the student must:

- A. Have completed 124 credits.

## Arts and Sciences

B. Have completed at least 32 of these credits at Oakland University, of which at least 16 credits must be in his elected major.

C. Be registered at Oakland University for at least 8 credits during the semester in which the degree is conferred.

D. Have a cumulative grade point average of at least 2.0.

(Exceptions to the Residence Requirement may be obtained only by successful petition to the dean of the school or college in which the student is enrolled.)

## II. THE GENERAL EDUCATION REQUIREMENT

In order to graduate with the degree of Bachelor of Arts, the student must:

A. Have completed 36 credits or more (as specified by his chosen major) in the University Course Program or in equivalent programs in Charter College or New College.

B. Have completed at least 8 elective credits.

C. Have fulfilled the requirements for Michigan Public Law 229 by taking either the University Course in Political Science (UC 052) or any combination of two other courses from the University Course Social Science sequence (UC 054, UC 056, UC 058) or from the American History sequence (HST 214, 215).

(Charter College or New College equivalents are accepted in lieu of the University Courses in political or social sciences.)

(For further details concerning the General Education Requirements, see pp. 27-39.)

## III. THE LANGUAGE REQUIREMENT

In order to graduate with the degree Bachelor of Arts, the student must have demonstrated facility in a foreign language as required by his elected major.

(For further detail concerning the language requirement, see pp. 39-40.)

## IV. REQUIREMENT OF AN ELECTED MAJOR

In order to graduate, the student must have fulfilled all requirements for an elected major and have at least a 2.0 average in the courses required for the major.

(For further detail concerning the major, see pp. 40-41 and entries under particular departments.)

## The Instructional Program

The instructional program of each student seeking to fulfill the general requirements for the degree of Bachelor of Arts has three components:

I. General Education

II. Language Study

III. The Major

I. GENERAL EDUCATION

(See also paragraph II of the General Degree Requirements.) There are *three* ways presently available for the student fully or partially to satisfy this general degree requirement: by means of the University Course Program, by enrollment in Charter College, or by enrollment in New College.

**A. The University Course Program**

The University Course Program is designed to assure to all undergraduates an extensive experience of the principal intellectual elements of a liberal and unspecialized education in arts, in letters, in the social sciences, and in the natural sciences and mathematics. Study in the Program occupies approximately one-third (with some variance depending upon the student's major) of the student's total curricular commitment. Courses in the Program normally are spaced throughout the student's entire undergraduate curriculum. The University Course Program consists in three prescribed divisions: (1) Freshman Exploratories, (2) Distribution Requirements, (3) Senior Colloquia. Brief explanations of these divisions follow. The credits required in each division are noted, and the specific courses which may be used to satisfy the requirement in each division are listed.

1. Freshman Exploratories . . . . . 8 credits  
 Freshman Exploratories are taught by faculty representing all disciplines in the College of Arts and Sciences and by members of the faculties of the School of Education and the School of Engineering, under the chairmanship of Mr. Richard Lyons of the Department of English. Classes are limited in size to enable meaningful discussion of ideas and to encourage a close relationship between students and instructors. Designed to permit an orderly but autonomous examination of a subject, a topic, or an area of intellectual concern chosen freely by the instructor, the Freshman Exploratories also provide the student with continuous, systematic, and mandatory practice in the writing of English prose. *Successful completion of the Freshman Exploratory requirement satisfies the University's writing competency requirement.* Each student, unless he has transferred equivalent credits from another institution, should take one and only one Freshman Exploratory (UC 01A-F) in each of his first two semesters, chosen from the following groups (no two may be chosen from the same group): Literature, Western History and Philosophy, Fine Arts, Man and Contemporary Society, Non-Western Civilizations, and Science and Mathematics. Any student who has not satisfactorily completed two Exploratories in his first three semesters may be declared ineligible to continue as an enrolled student by action of the Committee on Academic Standing. No student may receive credit for more

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than two Exploratories, including equivalent credits for courses taken at other institutions.

### 2. Distribution Requirements.

The Distribution Requirements are designed to provide all undergraduates with minimal experience of the fields of literature; of Western history and philosophy; of the fine arts (art and music); of the social sciences (economics, political science, psychology, sociology); and of the natural sciences and mathematics. In addition the Distribution Requirements prescribe study of at least one non-Western civilization (China or India). Courses specified as satisfying the Distribution Requirements are generally taught in lecture format. These courses should be so scheduled in the student's instructional program that some work taken to satisfy the Requirements is in progress during each year of the student's residence. Students majoring in biology, chemistry, music teaching, physics, secondary teaching of history with a minor in English may use Freshman Exploratories and the Senior Colloquium partially to satisfy these Distribution Requirements. The pattern of credits established for the Distribution Requirements is outlined below, and those courses which may be offered to satisfy particular elements of the Requirements are listed. For descriptions of those courses entitled University Courses (e.g., UC 018) see pp. 30-34 and for those with departmental titles (e.g., ENG 141) see listings in the departments concerned.

#### (a) Literature ..... 4 credits

All students must complete 4 credits in literature in any one of the following courses: UC 018, ENG 141, ENG 142, or any course in modern foreign languages numbered 271 or higher. Scheduling of these courses depends upon the programs of the different departmental majors, but normally they should be taken in the freshman or sophomore year.

#### (b) Western History and Philosophy ..... 4 credits

All students must complete 4 credits in Western history or philosophy in any one of the following courses: UC 036, UC 037, ED 244, HST 141 or 142, and PS 272. Scheduling of these courses depends upon the programs of the different departmental majors, but normally they should be taken in the freshman or sophomore year.

#### (c) Fine Arts ..... 4 or 8 credits

All students must complete at least 4 credits in either art or music in any one of the following courses: UC 047 (Art) or UC 049 (Music); majors in elementary education electing art should take either that section of UC 047 (Art) with laboratory assignment or ART 147; those electing music should take MUS 149 rather than UC 049 (Music). Students who elect to take only 8

credits in science and mathematics (see below) must take 8 credits in fine arts in two different fields, art and music.

(d) Social Sciences. . . . . 8 credits  
 All students must complete 8 credits in the social sciences in any two of the following courses: UC 052 (Introduction to American Politics), UC 054 (Introduction to Social Psychology), UC 056 (Introduction to Economics), UC 058 (Introduction to Sociology), PS 131, PSY 146, except that students who elect UC 054 may not take PSY 146 (and vice versa) and students who elect UC 052 may not take PS 131 (and vice versa) for credit towards fulfillment of this Distribution Requirement.

(e) Non-Western Civilizations . . . . . 4 credits  
 Some Distribution Requirements concentrate on the fundamental principles, historical development, and major achievements of Western civilizations. Others emphasize the processes by which the modern world functions. Courses in Non-Western Civilizations complement these courses by turning the students' attention to other major civilizations, Chinese and Indian, that differ substantially from Western civilizations and are making their own unique contributions to the modern world. Accordingly all students must complete 4 credits in the study of a non-Western civilization in one of the following area studies courses: UC 062 (China) or UC 066 (India). Neither course is open to freshmen; either course should be taken in the sophomore or junior year.

(f) Science and Mathematics . . . . . 8 or 12 credits  
 To satisfy this Distribution Requirement, every student must complete a minimum of 4 credits in science. All students must complete at least 8 credits in science and mathematics. Consistent with these two stipulations, this requirement may be fulfilled by any two of the following courses: UC 085 (Mathematics), UC 086, UC 087, UC 088, or UC 089 (Sciences) or EGR 101, PHL 370, or any two departmental courses in science, or any one departmental course in mathematics. UC 085-89 are not open to freshman and normally should be taken in the junior or senior year only. Students who elect to take only 8 credits in science and mathematics must take 8 credits in fine arts (see above) in two different fields.

3. Senior Colloquia. . . . . 4 credits  
 These Colloquia are designed to provide an opportunity for senior students to study outside their major fields in any one of the last two semesters of their residence. The Colloquia (UC 09A-F) are offered by faculty drawn from all disciplines under the chairmanship of Mr. Richard Burke of the Department of Philosophy. Emphasizing discussion, reading, and research, the

Colloquia deal with significant cross-disciplinary issues of either academic or public-policy import.

For 1968-69, the Colloquia will be open only to those students who entered on or after September, 1966 and who will be eligible for graduation in April, 1969.

## **B. University Course Descriptions**

### **1. Freshman Exploratories**

Exploratories are offered in the following groups, and the student must complete two with no two in the same group. The student should complete the Exploratory requirement in his first two semesters of residence and must complete them in the first three semesters or risk ineligibility for continuance as an enrolled student. (See p. 27.) Continuous and systematic practice in writing, under the supervision of the instructor, is an integral part of the work of each Exploratory. About 5,000 words are assigned per semester, spread over five to eight separate written assignments. On the judgment of the instructor, students enrolled in an Exploratory who experience special problems in writing may be assigned to the University Writing Center (see p. 208) for professional help. Such students are automatically enrolled in ENG 009; Aids to Expository Writing, in which "S" (Satisfactory) or "U" (Unsatisfactory) grades are awarded. The student works in the Center for varying lengths of time while continuing in his Exploratory. Grades awarded in the Exploratory reflect the grades awarded in ENG 009.

#### **UC 01A Literature**

Study of a variety of materials to define the unique interpretation of human experience which literature represents, the relation of literature to other endeavors, and the various forms of and approaches to literature and the use of language. Staff is drawn primarily from the faculties of English and modern languages.

#### **UC 01B Western History and Philosophy**

Studies from a variety of viewpoints of the nature and development of significant social institutions and ideas of the Western world, both ancient and modern, with attention to their relevance for the present. Staff is drawn primarily from the faculties of history and philosophy.

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

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

#### **UC 01D Man and Contemporary Society (Social Sciences)**

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



**UC 01E Non-Western Civilizations**

An exploration of selected problems, ideas, issues, or topics in non-Western studies under the direction of faculty drawn from the area studies program.

**UC 01F Science and Mathematics**

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

## 2. Distribution Requirements

The following University Courses are required or recommended for satisfaction of the Distribution Requirements. For those departmental courses which may be taken in lieu of University Courses, see pp. 28-29.

*Literature***UC 018 Western Literature**

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.

*Western History and Philosophy***UC 036 Western Institutions**

Lectures on 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 situations.

**UC 037 Western Philosophy**

Lectures on some of the great attempts of Western man to give meaning and significance to his life, to justify his activities, and to discover the foundations of his beliefs.

*Fine Arts***UC 047 Introduction to Art**

A survey of architecture, painting, and sculpture from prehistory to the present. The dualistic nature of the work of art is emphasized as the visual expression of artistic choice, individual and unique, yet part of a historical sequence of related forms. Major styles and periods and the fundamentals of visual analysis are stressed. Studio practice is not required. UC 047 with laboratory satisfies the University art requirement for general elementary education majors.

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### **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 Department of Music before registering for this course.

## *Social Sciences*

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

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

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

Observational, experimental, and analytical techniques for the objective study of relationships among men and the effects of these relationships upon the participants in them. The analysis of social functions and roles; the study of the development and change of attitudes, beliefs, and values; the influence of social groups on the individual; and the development of personality in relation to the social milieu are considered. Required of all teaching candidates, who should take this course in one of the first two semesters.

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

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

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

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

## *Non-Western Civilizations*

### **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. Enrollment limited to those with more than 28 credits.

### **UC 066 Introduction to India**

An exploration of the traditional civilization and modern development of the Indian subcontinent. Aspects dealt with include history, philos-

ophy and religion, literature and the arts, government, and social organization. Enrollment limited to those with more than 28 credits.

### *Science and Mathematics*

#### **UC 085 Mathematics**

A course for non-science 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, 315, or 316 except by permission of the instructor. Enrollment limited to those with more than 58 credits.

#### **UC 086, UC 087, UC 088, UC 089 Science**

Courses for non-science 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, UC 088, and UC 089. The courses may be taken independently of each other. Not open to those with credit for BIO 111, CHM 114, PHY 151, or any laboratory science course. Enrollment limited to those with more than 58 credits.

### 3. Senior Colloquia

Each student must take a Senior Colloquium in one of his last two semesters in residence. This course forms the capstone of the student's education *outside* his major field. Each section of the course will study intensively a broad problem of perennial or contemporary concern; students will be expected to contribute to the discussion the insights of whatever disciplines they have studied and thus will gain an idea of their broader relevance. *If the topic of a section should fall within one of the academic departmental fields, students who have majored in that department will be excluded from that section.*

In 1968-69, Senior Colloquia will be open only to students who entered the University in September, 1966 or later and who will be eligible for graduation in April, 1969.

#### **UC 09A Literature**

Studies of broad topics in literature and of the relation between literature and other human activities.

#### **UC 09B Western History and Philosophy**

Studies of contemporary issues in their historical or philosophical dimensions (or both), designed to show the value of these broader perspectives.

#### **UC 09C Fine Arts**

Studies in the arts and their relation to broad human and social problems.

**UC 09D Man and Contemporary Society (Social Sciences)**

Studies of contemporary social problems, conducted by faculty drawn primarily from the social and behavioral sciences: anthropology, economics, psychology, sociology, and political science.

**UC 09E Non-Western Civilizations**

Studies of current problems in the non-Western world and of the relations between East and West in the present and future.

**UC 09F Science and Mathematics**

Studies of scientific issues of broad significance and of the role of science and technology in the modern world.

**C. Charter College Program**

Chairman: Sheldon L. Appleton,  
Associate Professor of Political Science

Charter College was formed in 1965 in an effort to retain some of the advantages of the small liberal arts college within the organizational framework of an expanding university. Students of Charter College choose a major from the baccalaureate programs offered by Oakland University and meet the requirements of their elected major in accordance with University regulations. They receive their degrees from the University. Within the College, its students may meet many of their general education requirements and take some elective courses. They do so in the distinctive milieu of a small college.

To afford students and faculty in the College opportunities of getting to know one another, residence and freshman advising are linked to the academic program as closely as possible. Most Charter College classes, moreover, are smaller in size than are classes in the University Course Program. Oakland University faculty members who have volunteered to teach in the College do so because they enjoy teaching in such a context and because the College invites them to build courses around whatever area in their fields of competence currently interests them most. Thus the main focus of Charter College courses is not a prescribed body of subject matter, but rather the process of inquiry itself. It is hoped that both the instructor's enthusiasm for his subject and some of his skills in approaching it will be transmitted to the students who choose to learn with him. The College also welcomes innovative teaching methods and student participation in the making of College policies.

Any full-time Oakland University freshman is welcome to apply for admission to the College, with the understanding that Charter College courses should be expected to claim at least as much of his time and energies as—and sometimes more than—equivalent general education courses and programs in the College of Arts

and Sciences and the School of Engineering. Only about one hundred freshmen will be accepted each year.

All Charter College students will enroll in a Charter College seminar and in the Charter College lecture series during their first two seminars in the College. Seminars will emphasize critical reading, analytical thinking, and effective writing. Normally, seminars will be limited to twenty students, and the only grades given will be "S" (Satisfactory) and "U" (Unsatisfactory). The instructor will be requested to give each student a written evaluation at the end of the course. The instructor may also, if he wishes, designate a few students whose performance in the course has been outstanding. Students receiving "U" grades will not be given University credit for the course so graded, and instructors are directed to give "U" grades to any students who have not performed at approximately a "C" grade level or above. The student's instructor in his first Charter College seminar will also serve as his academic adviser during his freshman year. Performance in College lecture courses will be graded on the 0.0 to 4.3 scale used by Oakland University. (For further information on this grading system, see pp. 191-92 of this catalog.) Students receiving unsatisfactory grades ("U" in the seminars or below 2.0 in the lectures) in more than one of these four required courses will not be eligible to take College courses numbered 200 or above. Resident Charter College students will be expected, during their first year in the College, to live in a particular dormitory or section(s) of a dormitory set aside for them.

All Charter College students must meet the University's Distribution Requirements and foreign language requirements appropriate to their major and curriculum. They, and not Charter College, must assume responsibility for arranging their programs so as to meet these requirements. Both Charter College and regular University Courses may be counted toward meeting these requirements. (The letter assigned to each Charter College course indicates which of the Distribution Requirements it may be used to satisfy.)

Charter students who have completed their first-year program have no more formal Charter College requirements to meet. However, they will be offered the opportunity to enroll, with the permission of the instructor, in a number of additional courses. Included among these is a Senior Colloquium normally limited to twenty students and dealing with a subject outside the students' major fields. As in the case of freshman seminars, only grades of "S" and "U" are given.

Upperclassmen may also elect to continue to live in the Charter College dormitory, as space permits after first-year students have been accommodated; to attend Charter College lectures and events programs without paying additional course fees; to participate in

## Arts and Sciences

Charter College extracurricular programs and to serve on student-faculty committees that make recommendations concerning Charter College policies.

### Course Offerings

#### Charter College Seminars

Freshman seminars are offered on subjects chosen by the instructor and are normally limited to twenty students. Required of all Charter College students in each of their first two semesters in the College. Graded satisfactory or unsatisfactory. (Transcript designations for the seminars are: CC 001A, CC 001B, CC 001C, CC 001D, CC 001E, and CC 001F. The letter designations refer to subject matter groupings used in the University Course Program for the Freshman Exploratories to which these seminars are equivalent. See pp. 30-31.)

#### Charter College Lectures

Freshman lectures are offered on subjects chosen by the instructor and are normally offered to groups of 100 or more students. Required of all Charter College students in each of their first two semesters in the College. Graded on the University grading system of 0.0 to 4.3. (Transcript designations for these lectures are: CC 100A, CC 100B, CC 100C, CC 100D, CC 100E, and CC 100F. The letter designations refer to subject matter groupings used in the University Course Program for the Distribution Requirements to which these lectures are equivalent. See pp. 28-29.)

#### Charter College Discussions

Upperclass discussions are offered on subjects chosen by the instructor and are open to Charter College students who have completed freshman requirements. Students must have the permission of the instructor to enroll. Courses in the 200 series will be graded on the University grading system of 0.0 to 4.3. Courses in the 300 series will be graded satisfactory or unsatisfactory. (These discussions may be used to meet the Distribution Requirements according to the letter designation used to describe subject matter groupings in the University Course Program. See pp. 28-29.)

#### Charter College Senior Colloquia

Senior Colloquia are offered to students with senior standing. Students must have the permission of the instructor to enroll and may not enroll more than once for credit. Subject matter of the Colloquia should be outside the student's major field. Graded satisfactory or unsatisfactory. (Transcript designations for these Colloquia are: CC 499A, CC 499B, CC 499C, CC 499D, CC 499E, and CC 499F. The letter designations refer to subject matter group-

ing used in the University Course Program for the Senior Colloquia to which these Colloquia are equivalent. See pp. 33-34.)

#### **D. New College Program**

Chairman: Melvin Chernov, Professor of History

New College has been established on the conviction that a rigorous and systematic program of general education should complement a student's major. The College offers a four-year program (eight semesters) which occupies about half the student's time in the freshman and sophomore years, and one-fourth of it in the junior and senior years. The College program requires a total of 48 credit hours. In general, the New College courses in the first year emphasize the humanities; in the second, social studies; and in the third, science. The program of the senior year in the College comprises more individualized studies. This four-year program replaces the University Course Program required of other undergraduates. (See pp. 27-34.) A student enrolled in New College must satisfy the language requirement. (See pp. 39-40.)

The New College program is available as an option to all students, whatever their contemplated major. Because of the College commitment to a solid core of general studies, however, it is not normally feasible for students in the College to complete in eight semesters the degree of Bachelor of Science in Engineering or the degree of Bachelor of Arts in business administration, the sciences, or music. The College will gladly undertake to discuss modifications with these and other departments or schools, but it can make no advance commitments in such cases. Any student in these majors who is willing to attend an extra semester if necessary is, of course, welcome to enter the program of the College. Elementary education majors and students majoring in the sciences will be exempted from the College science courses scheduled for the third year, but these students will be expected to a limited extent to participate in planning these courses.

The freshman program consists of a two-semester course in intellectual and cultural history (6 credits per term), and a two-semester Performing Arts Workshop (2 credits per term). The faculty for the former course, Studies in the History of Civilization, is chosen from scholars in the fields of European history, philosophy, literature, art history, and area studies in non-Western civilizations. They will pool their resources to examine in depth a few of the great writers in the history of Eastern and Western man. Lectures, small discussion classes, extensive reading, and frequent writing assignments make this course a rigorous introduction to the elements of a liberal education. This study of world culture is continued in a 4-credit course, Twen-

## Arts and Sciences

tieth Century World Civilization, taken in the sophomore or junior year.

The sophomore program is devoted to the study of contemporary society, both in the classroom and at first hand. In the Fall or Winter Semester, each student will take a course (4 credits) introducing him to the study of American society; its major features, historical roots, and opportunities for planned social change. This course will provide an academic correlative for work in the following semester as students observe and study social behavior in off-campus communities. During this "field term," each student will work on a project for which he will earn 12 credits. The College will help the student plan and execute a project which may involve salaried work, volunteer work, or an individualized program of study.

Juniors will take two one-semester courses in science (4 credits each term), investigating its methods and significance through an examination of several fundamental problems. Materials will be chosen from physical and biological sciences as well as from behavioral science.

A number of options will be available for seniors: tentative plans include interdisciplinary seminars, a project in a broad area outside the student's major field, an oral examination, and apprentice teaching in the College for selected students.

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

### Course Offerings

#### **NC 101, 102 Studies in the History of Civilization (6 credits each term)**

A number of writers representative of various civilizations will be studied intensively, with the aim of deriving from their writings both an understanding of political, economic, and religious institutions and a related appreciation of literature, art, and philosophy. NC 101 is concerned with Ancient Civilizations, both those of the East and of the West. NC 102 is based on the history of Western Civilization from the Middle Ages to 1900.

#### **NC 103 Twentieth Century World Civilization (4 credits)**

A continuation of the freshman course, concentrating on twentieth century development and having particular reference to the interactions between Western and non-Western cultures.

#### **NC 111-112 Performing Arts Workshop (2 credits each term)**

A two-term course designed to allow the student to explore his potential for creativity under guidance but in a flexible environment. Does not demand previous experience. Sections currently stress movement, expression, and improvisation in theatre or dance.



**NC 201 Man in Society (4 credits)**

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

**NC 202 Field Term (12 credits)**

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

**NC 301, 302 Introduction to the Sciences (4 credits each term)**

Will not be offered until 1970.

## II. THE LANGUAGE REQUIREMENT

(See also paragraph III of the General Degree Requirements.) In addition to the General Education component just described, the Instructional Program of each student includes the requirement that he must have demonstrated that level of facility in a foreign language (or authorized equivalent) required by the major which he elects.

A. In the liberal arts majors offered by the Departments of Art, Classical Languages and Literatures, Economics, English Language and Literature, History, Mathematics, Modern Languages and Literatures, Music, Philosophy, Political Science, Psychology, and Sociology and Anthropology the requirement is as follows:

1. The student is required to demonstrate proficiency in a foreign language through the fourth-semester level by placing beyond the second-year (fourth semester) language proficiency requirement at the college level in a proficiency examination administered upon admission; or

2. If need be, by successfully completing a fourth-semester course in a foreign language at the college level.

B. In the liberal arts majors offered by the Departments of Biology, Chemistry, and Physics, the requirement is as follows:

1. The student is required to demonstrate reading knowledge of a foreign language by placing beyond the first-year language proficiency requirement at the college level in a proficiency examination administered upon admission, or

2. If need be, by successfully completing a second-semester course in a foreign language at the college level.

C. In the pre-professional majors of teacher education (both secondary and elementary) and business administration, the requirement is the same as in "B" above.

D. *Certain qualified students\** in the majors listed in "B" and "C" above may, with departmental consent, satisfy the requirement by completing the two-semester sequence in linguistics,

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LIN 176 (ENG 176) and LIN 177 (ENG 177). Admission to this sequence is on the basis of proficiency examinations administered upon admission.

\*Those students who are required to complete one year of language study are qualified students. Those students who are required to complete two years of language study may not elect the linguistics option.

For further information concerning foreign languages, see pp. 92-107. For further information concerning linguistics, see pp. 145-48.

### III. THE MAJOR

(See also paragraph IV of the General Degree Requirements.)

Each student seeking candidacy for the degree of Bachelor of Arts must choose a major and fulfill the specified requirements as prescribed by the relevant department or, in certain cases, the relevant interdepartmental committee.

A. The College of Arts and Sciences offers the following liberal arts majors. (For more detailed information, see material under each department.):

- |                                       |                                     |
|---------------------------------------|-------------------------------------|
| 1. Art History                        | 13. German                          |
| 2. Studio Art                         | 14. Russian                         |
| 3. Biology                            | 15. Spanish                         |
| 4. Chemistry                          | 16. Music Theory and<br>Composition |
| 5. Classical Languages                | 17. Music History and Literature    |
| 6. Latin                              | 18. Philosophy                      |
| 7. Economics                          | 19. Physics                         |
| 8. English                            | 20. Political Science               |
| 9. History                            | 21. Psychology                      |
| 10. Mathematics                       | 22. Sociology                       |
| 11. Chinese Language and Civilization | 23. Sociology and Anthropology      |
| 12. French                            |                                     |

B. The College of Arts and Sciences offers secondary teaching majors under the auspices of the following departments. (For detailed information see material under each departmental entry and p. 157 of the section of this catalog devoted to the School of Education.)

- |  |   |
|--|---|
| 1. Biology   | 6. Mathematics  |
| 2. Chemistry   | 7. Modern Languages and<br>Literatures. Secondary teaching<br>majors in French, German,<br>Russian, and Spanish only. |
| 3. Classical Languages and Literatures<br>Secondary teaching major<br>in Latin only. | 8. Music  |
| 4. English Language and Literature   | 9. Physics  |
| 5. History   |   |

C. Minors are not required by the General Degree Requirements for the degree of Bachelor of Arts. However, they are required of prospective secondary school teachers seeking certification by the Department of Education of the State of Michigan. Con-

sequently, the following departments and interdepartmental groups make available minor programs for such students. (For more detailed information see material under each departmental entry and p. 157 of the section of this catalog devoted to the School of Education.)

- |              |                    |
|--------------|--------------------|
| 1. Art       | 6. Mathematics     |
| 2. Biology   | 7. Physics         |
| 3. Chemistry | 8. Social Sciences |
| 4. English   | 9. Science         |
| 5. History   |                    |

D. The College of Arts and Sciences offers an interdepartmental secondary teaching major under the auspices of the Committee on the Social Studies Program. This Committee also makes available a secondary teaching minor in social studies. (See p. 157.)

E. The College offers an interdisciplinary major in elementary education under the Committee on Elementary Education. (For further information see pp. 157-61 of the section of this catalog devoted to the School of Education.)

F. The College offers a pre-professional major in business administration under the auspices of the Department of Economics and Business Administration. (See pp. 65-66.)

G. The College offers several concentrations in special programs which are pursued in conjunction with a departmental major. These concentrations are:

1. Chinese Studies (See pp.140-41.)
2. Linguistics (See pp. 145-48.)
3. Premedical Studies (See p. 148.)
4. Slavic Studies (See pp. 142-43.)
5. South Asian Studies (See p. 142.)

*Various Depts*

H. The College offers limited work in speech (pp. 150-51) and in geography (p. 150).

I. The College offers work in science for elementary education majors. (See p. 150.)

### Major Standing and General Requirements for Majors

#### I. ADMISSION TO MAJOR STANDING

A. A student must have completed 56 credits before he may formally be admitted to major standing.

B. It is the student's responsibility to apply to the appropriate department (or interdepartmental committee) for major standing before the end of the semester in which he completes 56 credits.

C. 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.

D. A student who has completed 72 or more credits and does

## Arts and Sciences

not have major standing is liable for dismissal by the Committee on Academic Standing.

### II. RETENTION IN MAJOR STANDING

A. Under normal circumstances, a student will retain major standing as long as he maintains a 2.0 average in those courses which the department has approved as constituting his major program.

B. If a student falls below a 2.0 average in approved major courses, he may be dropped from major standing by the department with the approval of the Dean of the College, with right of appeal to the Committee on Academic Standing.

## Major Departments of Instruction and Courses

Detailed requirements for majors, the departmental courses of instruction, and other pertinent information regarding departmental programs may be found under each department's entry.

### Regulations Governing Courses

1. All courses are assigned four credits 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. University Courses and courses numbered 100 to 299 are introductory or intermediate undergraduate courses. Courses numbered 300 to 499 are advanced courses primarily for undergraduates. Courses numbered 500 and above are primarily for graduate students.
5. The Registrar reserves the right to cancel any course in which there is insufficient registration.

**Department of Art**

Professor:	John C. Galloway (Art and Art History), Chairman
Associate Professors:	John L. Beardman (Art) John B. Cameron (Art History)
Assistant Professors:	Abraham A. Davidson (Art History) Donald H. Dwyer (Art History) Kiichi Usui (Art; Gallery Curator)
Instructor:	Perry M. Brakke (Art)
Lecturers:	Morris Brose (Art) Mrs. H��l��ne Trocm�� (Art History)

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

The Department strengthens its program of instruction by encouraging group or individual visits to the Detroit Institute of Arts and other public and private collections. It also presents a series of challenging exhibits of contemporary, primitive, and traditional arts in the University Art Gallery in Wilson Hall. The Gallery shows annually the best works by art majors and other students enrolled in departmental courses.

Each year the Department selects several majors and minors in art to work as pre-professional assistants. Appointed on the basis of their personal responsibility and sound academic achievement, these assistants receive training and experience invaluable to future graduate specialization and career work.

Each major in art history and studio art is required to pass an oral examination, typically during the seventh semester, on a topic agreed upon between him and the Department.

Majors in disciplines other than art are encouraged to consider the taking of period or subject courses in history of art as corollary to upper-division offerings in their own fields of specialization, with the approval of their departmental advisers.

## Arts and Sciences

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN ART HISTORY

UC 047 (Introduction to Art) and nine departmental courses in art, including one course in studio art, are required. (Additional courses in studio art will be counted as electives.) At least one art history course is to be taken from each of the following seven groups of two or three periods, styles, or subjects:

- A. Ancient Near East; Greek and Roman; Byzantine
- B. Medieval; Renaissance
- C. Seventeenth Century; Eighteenth Century
- D. Nineteenth Century; English Art; Modern Architecture
- E. American Art; German Art
- F. Twentieth Century Art; Primitive Art; African Art
- G. Seminar in Art History; Special Problems in Art History

Admission to major standing ordinarily requires completion of two Freshman Exploratories; two University Courses in social sciences; and UC 047 (which should be taken during the first semester). Art majors may be required to take two semesters of a second foreign language in addition to the usual four-semester University Course sequence. The preferred languages for art history majors are French and German.

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN STUDIO ART

UC 047 (Introduction to Art) and ten courses in art are required. UC 01C (Art) may not be substituted for UC 047; and the latter should be taken during the first semester. ART 226 must be completed before other studio courses may be taken, with the exception of ART 236 (Drawing). Three courses in art history, including ART 381 (Twentieth Century Art), must be completed; and one of the three must be completed before the student may take ART 226, except that, *with permission of the Department*, students of sophomore or higher standing may take their first art history course concurrently with ART 226. It is emphasized that the major in studio art is a general one and that there are *no separate majors* in painting, printmaking, sculpture, or other concentrations. *The student is required to complete course work in each area of studio art* in order to meet departmental requirements for the major in studio art. The requirements for major standing are identical to those for art history majors. Majors in studio art may be required to take, in addition to the usual four-semester sequence in one foreign language, two semesters of a second foreign language. (The preferred languages for all art majors are French and German.)

## REQUIREMENTS FOR THE SECONDARY TEACHING MINOR IN ART

Four art history and studio courses are required, beyond UC 047, UC 01C (Art), or ART 147. Two of these courses must be ART 333 and ART 381. Consult the Chairman of the Department of Art or the Dean of the School of Education for further information.

### LIBERAL ARTS MAJOR IN ART

(A Typical Program)

#### Semester 1

Freshman Exploratory  
UC 047  
Distribution Requirement  
Foreign Language\*

#### Semester 3

ART 226 or Art History  
Distribution Requirement  
Distribution Requirement  
Foreign Language

#### Semester 5

Art (300 or 400 level)  
Distribution Requirement  
Elective  
Foreign Language  
or Elective\*\*

#### Semester 7

Art  
Art  
Distribution Requirement  
Elective

#### Semester 2

Freshman Exploratory  
Art History  
Distribution Requirement  
Foreign Language

#### Semester 4

Art  
Distribution Requirement  
Elective  
Foreign Language

#### Semester 6

Art  
Art  
Elective  
Foreign Language  
or Elective\*\*

#### Semester 8

Art  
ART 480, 490, or 491  
Senior Colloquium  
Elective

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

An introduction to the history and analysis of the visual arts. Designed chiefly for general elementary education majors, for whom it satisfies the University requirement in art. (See also UC 047, which, with laboratory assignment, also satisfies this requirement.) May not be taken for credit by students who have completed UC 047 or UC 01C (Art).  
Prerequisite: Permission of the Department of Art.

#### **ART 226 Introduction to Studio Art**

A study of the fundamentals of drawing, painting, and other two-

\*French and German are the preferred languages for art majors.

\*\*Majors may be required to complete two semesters of a second language beyond the four-semester University language requirement. (See note marked\* above.)

dimensional processes. Designed mainly for art majors and minors; required of majors in studio art and recommended for majors in art history. Prerequisites: Art majors with sophomore or higher standing may, *with permission of the Department of Art*, take ART 226 concurrently with completing the first of the three requisite art history course. *All other students must have completed one course in art history, exclusive of UC 047, UC 01C (Art), and ART 147, before they may be admitted to ART 226.*

**ART 236 Drawing**

Fundamentals of drawing. The human figure is studied as a primary means of visual learning and expression.

Prerequisite: Same as for ART 226. May be taken only as an elective by art majors.

**ART 326 Painting**

A studio course in the various painting media, structured mainly for art majors and minors.

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

**ART 327 Printmaking**

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

Prerequisites: UC 047 or ART 147, and one course in art history. Completion of ART 326 is recommended.

**ART 328 Sculpture**

A studio course in three-dimensional and relief form using traditional and contemporary media.

Prerequisites: UC 047 or ART 147; one course in art history; and ART 226. Completion of ART 326 is recommended.

**ART 329 Sculpture**

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

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

**ART 333 American Art**

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

Prerequisite: UC 047 or ART 147.

**ART 341 German Art**

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

Prerequisite: UC 047 or ART 147.



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

The major artistic styles of the regions of primitive peoples. Relationships between primitive art and modern Western art are considered. Prerequisite: UC 047 or ART 147.

**ART 361 Medieval Architecture and Sculpture**

The art of the West from the time of Constantine to the Renaissance. Emphasis is placed upon the major period styles: Early Christian, Byzantine, Early Medieval, Carolingian, Romanesque, and Gothic. Prerequisite: UC 047 or ART 147.

**ART 369 Renaissance Art**

Architecture, painting, and sculpture of the fifteenth and sixteenth centuries in Italy and northern Europe. Attention is centered upon major artists and their relationship with one another and with topical Renaissance problems such as humanism, the classical revival, and perspective. Prerequisite: UC 047 or ART 147.

**ART 371 English Art**

Architecture, painting, and sculpture in England from the Renaissance in the reign of Elizabeth I to the Great Exhibition of 1851 and more recent times. Special attention is given to such major figures as Inigo Jones, Wren, Adam, Reynolds, Turner, and certain modern British artists. Prerequisite: UC 047 or ART 147.

**ART 373 Art of the Seventeenth Century**

The rise of the Baroque style of architecture, painting, and sculpture in Italy and its development in France, Spain, and the Low Countries. Prerequisite: UC 047 or ART 147.

**ART 379 Northern Renaissance Art**

A study of the style and iconography of Flemish, Dutch, French, and German painting and related arts from the late Medieval epoch until the mid-sixteenth century. Relationships with the Italian Renaissance are evaluated. Prerequisite: UC 047 or ART 147.

**ART 380 Nineteenth Century Art**

Painting, sculpture, and architecture from the close of the French Revolution to Post-Impressionism and the Art Nouveau. The development of Neoclassicism, Romanticism, Impressionism, and other major European and American styles is investigated. Prerequisite: UC 047 or ART 147.

**ART 381 Twentieth Century Art**

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

Prerequisite: UC 047 or ART 147.

**ART 383 Modern Architecture**

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

Prerequisite: UC 047 or ART 147.

**ART 390 The Art of the Film**

The history, techniques, and implications of the film as an art form. A study of the development of cinematic art is followed by analysis of both silent and post-World War II film landmarks.

Prerequisites: UC 047 or ART 147, and ART 381.

**ART 400 Oriental Art**

A study of the major Chinese, Indian, and Japanese styles and periods of architecture, painting, and sculpture and their relationships with other Eastern developments in art.

Prerequisites: UC 047 or ART 147, and one course in art history or permission of the Department of Art.

**ART 426 Advanced Painting**

The development of techniques and ideas in creative painting. With permission of the Department, may be taken for four or eight credits per semester.

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

**ART 427 Advanced Printmaking**

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

**ART 428 Advanced Sculpture**

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

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

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

The course deals with the art of Egypt, Mesopotamia, Iran, Asia Minor, and Syria from Neolithic to Roman times.

Prerequisite: UC 047 or ART 147.

**ART 451 The Art of Negro Africa**

The sculpture and related arts of the tribal peoples of West, Central, and East Africa. Attention is given to the relation of African sculpture to recent Western art.

Prerequisites: UC 047 or ART 147, and one course in art history or anthropology. (ART 351 is recommended.)

**ART 455 Greek and Roman Art**

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

Prerequisite: UC 047 or ART 147.

**ART 461 Medieval Painting**

The style and iconography of manuscripts, wall paintings, and cathedral windows in stained glass from the Early Christian period to the Gothic.

Prerequisites: UC 047 or ART 147, and one course in art history. (Completion of ART 361 is recommended.)

**ART 465 Byzantine Art**

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

Prerequisites: UC 047 or ART 147; and ART 361 or ART 455, or permission of the Department.

**ART 473 Art of the Eighteenth Century**

The evolution and spread of the Baroque style throughout the Western world, with emphasis on Central Europe and the Spanish Colonial possessions. The emergence and diffusion of the Rococo until the final reaction of Neoclassicism.

Prerequisite: UC 047 or ART 147.

**ART 480 Seminar in Art History**

This course initially familiarizes art majors with the literature and research facilities of art history. Individual topics of special interest are then assigned for intensive study. *This course or ART 491 is required of all majors in art history* and is recommended for all art majors. With permission of the Department, may be taken for four or eight credits.

Prerequisites: UC 047 or ART 147, and two courses in art history.

**ART 490 Special Problems in Studio Art**

Individually assigned projects in painting, printmaking, or sculpture. With permission of the Department, may be taken for four or eight credits.

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

**ART 491 Special Problems in Art History**

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

Prerequisites: Major standing in art and completion of three courses in art history.

## Department of Biology

Professors:

Clifford V. Harding, Chairman  
William C. Forbes  
V. Everett Kinsey  
V. N. Reddy  
Reuben Torch  
Walter L. Wilson

Assistant Professors:

Francis M. Butterworth  
John Reddan  
Herbert Schuel  
Nalin J. Unakar

The courses in biology are designed for students in two types of major: liberal arts majors and secondary education teaching majors. The liberal arts major prepares the student for graduate studies in the life sciences, laboratory and research work in industries concerned with biological materials, and professional careers in medicine, dentistry, and allied fields. This liberal arts program in biology is particularly well suited to the needs of the premedical student. Since modern biology is an exact science, corequisite training in chemistry, physics, and mathematics is extensive.

It should be noted that the University Course Program has been modified for the Department of Biology so that the two Freshman Exploratories and the Senior Colloquium can, if properly selected, substitute for three of the Distribution Requirements. Appropriate selections should be determined in consultation with the academic adviser.

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

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN BIOLOGY

Forty credits in biology are required. This total must include eight lecture courses. (Corresponding lecture and laboratory courses must be taken simultaneously.) In addition, 16 credits in chemistry, 10 credits in physics, and 8 credits in mathematics are required.

Admission to major standing requires 15 credits in biology plus 8 credits in any combination of the required courses in math-

ematics, physics, and chemistry.

#### REQUIREMENTS FOR THE SECONDARY TEACHING MAJOR IN BIOLOGY

Forty credits in biology are required. The group minor requirement is satisfied by a total of 24 credits in the fields of chemistry and physics. Additional requirements include 8 credits in mathematics and the following education courses: ED 244-245, ED 428, and ED 455.

Admission to major standing requires 15 credits in biology; 8 credits in any combination of the required courses in mathematics, physics, and chemistry; acceptance by the Department of Biology and concurrent acceptance into the Teacher Education Program.

#### REQUIREMENTS FOR THE SECONDARY TEACHING MINOR IN BIOLOGY

Twenty credits in biology are required.

#### LIBERAL ARTS MAJOR IN BIOLOGY

(A typical program)

##### Semester 1

Freshman Exploratory  
BIO 111, 112  
MTH 154  
Distribution Requirement

##### Semester 3

BIO 221, 222  
PHY 152  
PHY 158  
Distribution Requirement

##### Semester 5

BIO Lecture & Lab  
CHM 115, 118  
Foreign Language

##### Semester 7

BIO Lecture & Lab  
CHM 235-238<sup>1</sup>  
Elective

##### Semester 2

Freshman Exploratory  
BIO 113, 114  
MTH 155  
PHY 151

##### Semester 4

BIO Lecture & Lab  
CHM 114-117  
Foreign Language\*

##### Semester 6

BIO Lecture & Lab  
CHM 234-237  
Elective

##### Semester 8

BIO Lecture & Lab  
Senior Colloquium  
Distribution Requirement  
Elective

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

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

SECONDARY TEACHING MAJOR IN BIOLOGY  
WITH A GROUP MINOR IN CHEMISTRY AND PHYSICS

(A typical program)

Semester 1

Freshman Exploratory  
BIO 111, 112  
MTH 154  
UC 054

Semester 3

BIO 221, 222  
PHY 152  
PHY 158  
ED 244

Semester 5

BIO Lecture & Lab  
CHM 115  
Foreign Language\*  
Elective

Semester 7

BIO Lecture & Lab  
BIO Lecture & Lab  
Senior Colloquium

Semester 2

Freshman Exploratory  
BIO 113, 114  
MTH 155  
PHY 151

Semester 4

BIO Lecture & Lab  
CHM 114-117  
ED 245  
Elective

Semester 6

BIO Lecture & Lab  
CHM 234-237  
Foreign Language

Semester 8

ED 428  
ED 455

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

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

**BIO 104      Biology of the Human**

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

**BIO 105      Biology of the Human**

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

**BIO 108      Bio-engineering**

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

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

**BIO 111      Biology**

The structure and function of living matter, its organization into cells, tissues, and organs of both animal and plant forms. The physical and

chemical basis of movement, nutrition, reproduction, development, inheritance, and evolution. The principles governing animal and plant populations, species, and higher taxonomic groups and biota. Basic principles will be emphasized.

**BIO 112      Biology Laboratory** **(1 credit)**  
To accompany BIO 111.

**BIO 113      Biology**  
Continuation of BIO 111.

**BIO 114      Biology Laboratory** **(1 credit)**  
To accompany BIO 113.

**BIO 221      Physiology**

A detailed study of general physiological principles. Primary emphasis will be focused on the following topics: characterization of the internal environment; bio-energetics; transport of material across the cell membrane; osmoregulation; respiration; conduction; contraction; circulation. Prerequisite: BIO 113.

**BIO 222      Anatomy and Physiology**

A detailed study of vertebrate anatomy and physiology. To accompany BIO 221.

**BIO 223      Histology**

The microscopic anatomy and histochemistry of vertebrate tissues and organs, in relation to tissue function. Prerequisite: BIO 113.

**BIO 224      Histology Laboratory** **(1 credit)**  
To accompany BIO 223.

**BIO 225      Elementary Biophysics and Cellular Biochemistry**

The principles and techniques which are basic to discussions in the intermediate and advanced courses in biology. Prerequisite: BIO 113.

**BIO 231      Microbiology**

A discussion of the classification, morphology, and physiology of microorganisms. Prerequisite: BIO 113.

**BIO 232      Microbiology Laboratory** **(1 credit)**  
To accompany BIO 231.

**BIO 241      Plant Morphology**

Structure, reproductive mechanisms, and evolutionary relationships of the plant groups. Ultrastructure of cells and their walls. Preparation of plant materials for microscopic examination. Cytochemistry and histogenesis of selected specimens. Prerequisite: BIO 113.

**BIO 242      Plant Morphology Laboratory** **(1 credit)**  
To accompany BIO 241.

**BIO 243      Plant Physiology**

Mineral nutrition, absorption and translocation, metabolism, hormonal

## Arts and Sciences

control, dormancy, growth and reproduction, and physiological responses to the environment.

Prerequisite: BIO 241.

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

To accompany BIO 243.

**BIO 301 Ecology**

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

Prerequisite: BIO 113.

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

To accompany BIO 301.

**BIO 323 Developmental Biology**

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

Prerequisite: BIO 223.

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

To accompany BIO 323.

**BIO 341 Genetics**

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

Prerequisite: BIO 113.

**BIO 342 Genetics Laboratory**

To accompany BIO 341.

**BIO 403 Protozoology**

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

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

To accompany BIO 403.

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

Prerequisite: Permission of instructor.

**BIO 407 Cellular Biochemistry**

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

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

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

To accompany BIO 407.

An introduction to modern research procedures in biochemistry and cellular physiology. The laboratory work will include: spectrophotometric analysis of biological compounds; chromatographic and electrophoretic techniques; enzyme kinetics; isolation and characterization of subcellular



organelles; cellular permeability; individual research projects.

**BIO 409 Cellular Biochemistry**

Continuation of BIO 407.

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

To accompany BIO 409.

**BIO 415 Differentiation**

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

Prerequisite: BIO 323.

**BIO 425 Biophysics**

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

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

To accompany BIO 425.

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

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

Prerequisite: BIO 341.

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

To accompany BIO 435.

**BIO 437 Virology**

Prerequisite: BIO 231.

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

To accompany BIO 437.

**BIO 441 Microbial Genetics**

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

Prerequisites: BIO 231 and BIO 341.

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

To accompany BIO 441.

**BIO 445 Ultrastructure**

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

Prerequisite: BIO 223.

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

To accompany BIO 445.

**BIO 455 Seminar**

Discussion of recent publications in the biological sciences.

**BIO 463 Cell Biology**

Prerequisites: BIO 223 and permission of instructor.

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

To accompany BIO 463.

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**BIO 471     Advanced Physiology**

Prerequisites: BIO 223 and permission of instructor.

**BIO 472     Physiology Laboratory**

**(1 credit)**

To accompany BIO 471.

**BIO 490     Individual Laboratory Work**

**(2, 3, or 4 credits)**

Prerequisite: Permission of instructor.

## Department of Chemistry

Professor:	Paul Tombouliau, Chairman
Associate Professors:	Gottfried Brieger Steven R. Miller Frederick W. Obear Robert L. Stern
Assistant Professors:	James E. Davis Joel W. Russell

The courses in chemistry are designed for several types of students: those desiring to pursue graduate or professional work in chemistry, those preparing to teach chemistry in high school, and those in other sciences and mathematics who need a background in chemistry. The undergraduate curriculum for liberal arts majors is a specialized program 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 that for the liberal arts major, except that the required education courses are included so that a graduate of this program may be sponsored for teacher 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.

Oakland University has been approved by the American Chemical Society. Graduates who complete the liberal arts major in chemistry will have fulfilled the minimum standards for professional education and will be so certified by the Department to the Society.

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN CHEMISTRY

Forty-eight credits in chemistry are required. Of these, 31 credits must be in lecture courses, including CHM 235, 245, 324, 312, and 400. At least 13 credits must be chosen in laboratory courses, including CHM 238, 248, 317, and 328. Twenty-six credits in mathematics and physics are required, including PHY 158, PHY 371, and MTH 254. Successful completion of GRM 101-102 or equivalent proficiency in German is required. Admission to major standing requires a total of 32 credits in chemistry, physics, and mathematics.

### REQUIREMENTS FOR THE SECONDARY TEACHING MAJOR IN CHEMISTRY

Thirty-two credits in chemistry are required, including CHM 234, 244, 312, 324, and 351. Eight credits in mathematics are re-

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quired, including MTH 155. Ten credits in physics are required. Minors in mathematics or physics are suggested. Other minors may be arranged. (See p. 157 of this catalog.) The following education courses are required: ED 244-245, 428, and 455. Admission to major standing requires a total of 28 credits in chemistry, physics, and mathematics.

### REQUIREMENTS FOR THE SECONDARY TEACHING MINOR IN CHEMISTRY

Twenty credits in chemistry courses are required.

#### **CHM 114 Chemistry**

An introduction to the study of gases, liquids, solids, atomic and molecular structure, stoichiometry, equilibria, thermodynamics, and kinetics. Prerequisite: Three years of high school mathematics. Some knowledge of high school chemistry is assumed.

Corequisite: CHM 117. Concurrent registration in MTH 154 or MTH 134 is desirable.

Offered in the Fall Semester only.

#### **CHM 115 Chemistry (3 credits)**

Continuation of CHM 114.

Prerequisite: CHM 114.

Offered in the Winter Semester only.

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

Introductory experiments in various areas of chemistry.

Prerequisite or corequisite: CHM 114.

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

Experiments illustrating principles and techniques of analytical chemistry.

Prerequisite: CHM 117.

#### **CHM 234-235 Organic Chemistry**

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

Prerequisite: CHM 115.

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

Qualitative analysis and synthetic techniques of modern organic chemistry.

Prerequisites: CHM 117-118.

Prerequisites or corequisites: CHM 234-235.

#### **CHM 244-245 Physical Chemistry**

Physical interpretation of chemical phenomena thermodynamics, statistical mechanics, reaction kinetics, molecular structure, and spectroscopy.

Prerequisites: CHM 115, MTH 155, PHY 152 are prerequisites for CHM 244; PHY 371 and MTH 254 are prerequisites for CHM 245.

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

Laboratory coordinated with CHM 245.

Prerequisites or corequisites: CHM 245 and PHY 158.

#### **CHM 312 Inorganic Chemistry**

Development of atomic theory, chemical periodicity, molecular structure,

and chemical properties of selected inorganic compounds.

Prerequisite: CHM 244.

Prerequisite or corequisite: CHM 245.

**CHM 317 Inorganic Chemistry Laboratory (1 credit)**

Advanced preparatory techniques; methods of purification and analysis.

Prerequisite or corequisite: CHM 312.

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

Advanced quantitative techniques and measurements; theory and application of modern analytical methods.

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

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

Laboratory coordinated with CHM 324.

Corequisite: CHM 324.

**CHM 346 Spectroscopy Laboratory**

Experimental techniques of spectroscopy; infrared, ultraviolet, nuclear magnetic resonance, and mass spectrometry. Instrument design and performance, sampling methods, and applications are examined.

Prerequisite or corequisite: CHM 245.

**CHM 351 Biochemistry (3 credits)**

An introduction to molecular biology and the chemistry of biological macromolecules; proteins and nucleic acids, enzymology, bio-energetics, and metabolic cycles.

Prerequisite: CHM 234.

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

Prerequisite or corequisite: CHM 351.

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

Specialized laboratory work in selected areas emphasizing advanced techniques.

Prerequisite: Permission of the Department.

**CHM 400 Seminar (1 credit)**

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

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

Advanced study in special areas; seminars, laboratory work, and readings.

Prerequisite: Permission of the Department.

**CHM 413 Advanced Inorganic Chemistry**

A study of the families of elements and classes of compounds from the standpoint of molecular structure and the rates and equilibria involved in chemical reactions.

Prerequisite: CHM 312.

**CHM 422 Advanced Analytical Chemistry**

Detailed treatment of the theory and applications of modern analytical methods.

Prerequisite: CHM 324.

**CHM 426 Instrumentation (3 credits)**

Analysis of design and operation of instrumental equipment; includes laboratory.

Prerequisites: CHM 238, 248, 328; PHY158.

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### **CHM 431 Organic Synthesis**

Theory and practice of synthetic and degradative methods of organic chemistry. Preparative reactions from the recent chemical literature will be emphasized.

Prerequisites: CHM 235 and CHM 245.

### **CHM 433 Organic Mechanisms**

Application of modern electronic theory to the structures and reactions of organic compounds.

Prerequisites: CHM 235 and CHM 245.

### **CHM 434 Natural Products**

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

Prerequisites: CHM 235 and CHM 245.

### **CHM 442 Kinetics**

Kinetic theory of gases, equilibrium and transport properties of gases, intermolecular forces, collision theory of reaction rates, mechanism of reactions, homogeneous catalysis, transition-state theory, absolute rate theories, surface reactions, and photoreactions.

Prerequisite: CHM 245.

### **CHM 444 Quantum Chemistry**

Lagrangian and Hamiltonian mechanics, derivation of quantization for simple systems, approximate methods for solution of more complex systems, angular momentum, molecular orbital and valence bond theory, and interpretation of molecular electronic spectra.

Prerequisites: CHM 245, PHY 371, MTH 254.

### **CHM 452 Advanced Biochemistry**

A continuation of CHM 351, but more chemical in emphasis. Devoted primarily to metabolism and cellular regulation.

Prerequisite: CHM 351.

### **CHM 490 Research (2, 4, 6, or 8 credits)**

Laboratory and library practice in undergraduate research.

Prerequisite: Permission of the Department.

### **CHM 514 Topics in Inorganic Chemistry**

Discussion of areas of current interest in inorganic chemistry.

Prerequisite: CHM 413.

### **CHM 543 Statistical Thermodynamics**

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

Prerequisites: CHM 245, PHY 152, MTH 254.

### **CHM 545 Quantum Chemistry**

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

Prerequisite: CHM 444.

**CHM 553 Genetic Biochemistry**

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

Prerequisite: CHM 452.

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

Graduate research and study under the supervision of a faculty member.

Prerequisite: Permission of the Department.

**Department of Classical Languages and Literatures**

Professor: Howard W. Clarke, Chairman

Instructor: Cheryl A. Wagner

**REQUIREMENTS FOR THE LIBERAL ARTS MAJOR  
IN CLASSICAL LANGUAGES**

Nine courses are required, 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 or ancient history. 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 or ancient history. Admission to major standing requires two Freshman Exploratories and four courses in Latin.

**REQUIREMENTS FOR THE LIBERAL ARTS MAJOR  
IN LATIN**

Nine courses in Latin and classics or ancient history are required, 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 or ancient history. Admission to major standing requires two Freshman Exploratories and four courses in Latin.

**REQUIREMENTS FOR THE SECONDARY TEACHING MAJOR  
IN LATIN**

Eight courses in Latin and classics or ancient history are required, 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 or ancient history. The following education courses are also required: ED 244-245, ED 428, ED 455. Admission to major standing requires two Freshman Exploratories, four courses in Latin, acceptance by the Department of Classical Languages and Literatures, and concurrent acceptance into the Teacher Education Program.

**CLS 301, 302 Classical Civilization**

A two-semester survey of the history and culture of Greece and Rome. Ordinarily offered in the Spring Semester. Either semester may be elected independently. Identical with HST 223 and HST 224 respectively.



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

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

**CLS 312 Classical Mythology**

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

**CLS 317 The Classical Tradition**

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

**CLS 324 The Ancient Historians**

A survey of the aims, methods, achievements, and limitations of ancient historiography through a reading, in translation, of the most prominent ancient historians. Identical with HST 324.

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

Prerequisite: LTN 115.

**LTN 320 Selections from Latin Literature**

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

Prerequisite: LTN 215.

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

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

Prerequisite: LTN 320.

## Department of Economics and Business Administration

Professor:	Theodore O. Yntema (Visiting)
Associate Professors:	Robbin R. Hough, Chairman Siddheshwar Mittra Norton C. Seeber
Assistant Professor:	Eleutherios N. Botsas
Instructors:	John Hurd II 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 LIBERAL ARTS 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 of which requires EB 217 as prerequisite. In addition, all majors must complete two semesters of work in another social science; and during their first year they must take MTH 125 and MTH 131. (MTH 154 may be normally substituted for MTH 131.) Admission to major standing requires two Freshman Exploratories, plus EB 216 and EB 217.

### Business Administration

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

first entry into many jobs in business, government, and administration.

### *Accounting and Marketing*

Students who wish to develop specialized skills in accounting and marketing should take the sequences EB 201 and 401, and EB 202 and 402. The sequences are designed to encourage independent thought and to stimulate the application of the tools of economic analysis to problems in these specialized areas.

#### 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 in the functional areas and include EB 301, EB 435, EB 442. In related social sciences, four courses are required: two courses in psychology (UC 054, PSY 261) and two courses in either political science or sociology. The mathematics requirement is three courses: MTH 125, MTH 131, to be taken in the first two semesters, and MTH 322. (MTH 154 may be substituted for MTH 131.) Admission to major standing requires two Freshman Exploratories, plus EB 216 and EB 217.

#### MAJOR IN BUSINESS ADMINISTRATION

(A typical program)

##### Semester 1

Freshman Exploratory  
UC 056  
MTH 125  
Distribution Requirement

##### Semester 3

EB 216 or EB 217  
EB 301  
Distribution Requirement  
Foreign Language

##### Semester 5

MTH 322  
EB Elective  
Distribution Requirement  
Distribution Requirement

##### Semester 7

EB 442  
EB Elective  
EB Elective  
Elective

##### Semester 2

Freshman Exploratory  
UC 054  
MTH 131  
EB 216 or EB 217

##### Semester 4

EB Elective  
PSY 261  
Distribution Requirement  
Foreign Language

##### Semester 6

EB Elective  
Distribution Requirement  
Distribution Requirement  
Elective

##### Semester 8

EB 435  
EB Elective  
Elective  
Senior Colloquium

**EB 105 Introduction to Computer Programming (1 credit)**

**EB 108 Introduction to Processing Languages (1 credit)**

**EB 201 Elements of Accounting**

A programmed introduction to the elementary concepts of accounting. Prerequisite: UC 056 or permission of the instructor.

**EB 202 Elements of Marketing**

A programmed introduction to the elementary concepts of marketing. Prerequisites: EB 216 and EB 217.

**EB 216 Micro-Economic Analysis**

Analysis of pricing, resource allocation, and income distribution at the level of the individual firm, industry, and household consuming unit. Prerequisite: UC 056.

Prerequisite or corequisite: MTH 131.

**EB 217 Macro-Economic Analysis**

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

Prerequisites: UC 056 and MTH 125.

**EB 223 The Indian Economy**

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

Prerequisite: Permission of the instructor.

**EB 301 Accounting and Statistical Techniques**

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

Prerequisites: UC 056 and permission of the instructor.

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

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

**EB 318 Social Organization and Economic Change**

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

**EB 322 Capital Markets**

Corporate and public finance, and the operation of major financial institutions and markets. Offered in the 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 the 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 the 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 the Fall Semester.  
Prerequisite: EB 216.

**EB 326 Economic Development**

Application of the tools of economic analysis to the problems of underdeveloped countries. Offered in the Winter Semester.  
Prerequisite: UC 056 or permission of the instructor.

**EB 333 Labor-Management Relations**

Analysis of management-employee relations in modern industry; public policy in labor-management areas. Offered in the Fall Semester.  
Prerequisites: UC 056 and permission of the instructor.

**EB 334 Business Enterprise**

Origin and evolution of contemporary business institutions; social, philosophical, legal, and economic foundations of the modern corporation. Offered in the Winter Semester.  
Prerequisites: UC 056 and permission of the instructor.

**EB 342 Simulation in Economics**

An introduction to the use of simulation techniques.  
Prerequisites: Major standing and permission of the instructor.

**EB 401 Readings in Accounting**

Directed readings in accounting systems.  
Prerequisites: Major standing and EB 201.

**EB 402 Readings in Marketing**

Directed readings in the classic literature of marketing.  
Prerequisites: Major standing and EB 202.

**EB 405 Econometrics**

An introduction to the testing of economic models, expressed mathematically, by statistical methods.  
Prerequisites: EB 216, EB 217, EB 301, and permission of the Department.

**EB 418 Selected Topics in Economic Policy**

**EB 435 Business Policies**

Financial, economic, and other management tools used to analyze business case studies.  
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.  
Prerequisites: EB 216 and EB 217.

**EB 480 Seminar**

Theses, individual topics, and readings.

Prerequisite: Permission of the Department.

**EB 490 Independent Research**

Prerequisite: Permission of the Department.

## Department of English Language and Literature

Professors:	Robert Hoopes, Chairman Thomas Fitzsimmons William Schwab Mrs. Gertrude M. White
Associate Professors:	John G. Blair Maurice F. Brown Joseph DeMent Peter G. Evarts Richard S. Lyons Mrs. Marilyn L. Williamson
Assistant Professors:	James F. Hoyle David W. Mascitelli Donald E. Morse
Instructors:	Louis Buchanan Daniel H. Fullmer Michael J. Heffernan
Special Instructors:	Mrs. Phebe Chao (on leave 1968-69) Mrs. Margaret L. Kurzman Mrs. Joan G. Rosen
Lecturer:	Robert L. Donald

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

### DEPARTMENTAL PREREQUISITES

For all courses numbered in 100's: none.

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

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



For all courses numbered in 400's: major standing in English. These prerequisites may be waived only by permission of the instructor in any given course.

#### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR AND SECONDARY TEACHING MAJOR IN ENGLISH

A total of 40 credits in all is required for completion of the

*major*. Of this total 12 credits may be elected from all departmental offerings at the 200 level or above. (The Department will accept up to 4 credits in the study of literature in a foreign language, e.g., modern language courses numbered 271, 272, or other courses not in translation.)

The remaining 28 credits must be distributed as follows:

(a) Major British and American Writers: 8 credits. (ENG 141, 142.)

This two-semester sequence is basic to the English major. Normally ENG 142 should follow ENG 141, but a student may take the courses in reverse order or register in both concurrently. Either semester will satisfy the Distribution Requirement in literature.

(b) English literature: 8 credits. (Course numbers ending in 51 through 75.)

(c) American literature: 8 credits. (Course numbers ending in 16 through 40.)

(d) Four of these 16 credits in English and American literature must be taken in a single-author course (400 level).

(e) Language analysis: 4 credits. (Course numbers ending in 76 through 83. Secondary teaching majors must take ENG 377, Modern English Grammar.)

#### REQUIREMENTS FOR MAJOR IN ENGLISH WITH CONCENTRATION IN LINGUISTICS

See the Concentration in Linguistics, pp. 145-48.

#### REQUIREMENTS FOR THE SECONDARY TEACHING MINOR IN ENGLISH

A total of 20 credits in all is required for completion of the *minor*. Of this total 4 credits may be elected from all departmental offerings.

The remaining 16 credits must be distributed as follows:

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

(b) Language analysis or writing: 4 credits. (ENG 210, 310, or courses ending in 76 through 83, except for 376.)

(c) American literature: 4 credits.

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

A course designed to assist students in developing the basic skills of

## Arts and Sciences

writing expository prose. Admission is by permission of instructor.

\*Grade of "S" or "U" appears on transcript.

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

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

### **ENG 176, 177 The Nature of Language**

The first semester deals with language as a conceptual system and with the interrelationships of language and other cultural subsystems. Language and dialects, acquisition both of native and of foreign languages, and other topics related to the nature of language are examined. The second semester studies the relationships between speech and writing; phonological, grammatical, and semantic systems; the history of language; the application of linguistic principles to language learning, stylistic analyses, the teaching of standard dialects, and the psychology of communication.

Identical with LIN 176, 177.

### **ENG 200 Topics in Literature and Language**

Topics and problems selected by the instructor.

### **ENG 201 Poetry**

Introduction to the analysis and enjoyment of poetry.

### **ENG 202 Epic**

Introduction to the analysis and enjoyment of the epic.

### **ENG 205 Shakespearean Drama**

Introduction to the analysis and enjoyment of Shakespeare.

### **ENG 207 Drama**

Introduction to the analysis and enjoyment of drama.

### **ENG 208 Biography**

Introduction to the analysis and enjoyment of biography.

### **ENG 209 Novel**

Introduction to the analysis and enjoyment of the novel.

### **ENG 210 Fundamentals of Exposition**

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

### **ENG 224 American Writers**

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

### **ENG 275 Modern British Writers**

The principal works, themes, and techniques of major twentieth century British writers.

### **ENG 290 Introduction to Critical Methods**

A general introduction to the principal critical methods, together with the assumptions on which those methods rely, that have been used to analyze literature. Problems in the analysis of criticism and literature.

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

Special topics and problems selected by the instructor.

**ENG 310 Advanced Exposition**

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

**ENG 317 Early American Literature**

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

**ENG 322 Nineteenth Century American Fiction**

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

**ENG 324 American Romanticism**

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

**ENG 332 Modern American Fiction**

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

**ENG 333 Modern American Poetry**

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

**ENG 340 American Writing Now**

American fiction, poetry, and drama.

**ENG 353 Old English Literature**

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

**ENG 354 Medieval Literature**

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

**ENG 355 Literature of the English Renaissance**

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

**ENG 360 Metaphysical Poetry**

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

**ENG 368 Eighteenth Century Literature**

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

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### **ENG 369 The English Novel**

A study of representative English novels.

### **ENG 370 The Romantic Period**

Literature of the Romantic Period with main emphasis on major poets such as Wordsworth, Coleridge, Keats.

### **ENG 371 Victorian Literature**

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

### **ENG 375 Modern Literature**

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

### **ENG 376 History of the English Language**

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

### **ENG 377 Modern English Grammar**

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

### **ENG 382 Old English**

An introduction to the language of the Anglo-Saxons (c. 900 A.D.) in order to develop an ability to read Old English literature; acquaintance with the material is demonstrated by student recitation.

### **ENG 390 Literary Criticism**

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

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

Advanced topics and problems selected by the instructor.

### **ENG 410 Imaginative Writing**

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

### **ENG 425 Melville**

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

### **ENG 430 Henry James**

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

### **ENG 439 Faulkner**

An intensive study of the fiction of William Faulkner, including attention to various critical approaches.

### **ENG 451 Chaucer**

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

- ENG 460 Shakespeare**  
Reading and discussion of ten plays and the sonnets; course designed for secondary teaching majors.
- ENG 465 Shakespeare**  
Intensive analysis of four or five of the plays.
- ENG 466 Milton**  
Selected early poems, including "On the Morning of Christ's Nativity," "Comus," "Lycidas"; some of the sonnets and prose treatises; *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*.
- ENG 470 W. B. Yeats**  
Intensive reading of the poems, plays, essays, and autobiography of William Butler Yeats. Discussion.
- ENG 495 Seminar**  
Intensive reading and research designed particularly for English majors. Topic at the pleasure of the instructor. Enrollment limited.
- ENG 497 Apprentice College Teaching (2 or 4 credits)**  
An elective course open to any well-qualified upperclassman who wins consent of a faculty member in his major field to assist in presenting a regular college course to underclassmen. The apprentice should be capable of assuming *limited* classroom responsibility. Open to teaching or liberal arts majors with the support of the Department. Does not satisfy departmental major requirements.
- ENG 499 Independent Reading**  
Directed reading and research designed exclusively for senior English majors.
- ENG 500 Advanced Topics in Literature and Language**  
Advanced topics and problems selected by the instructor.
- ENG 507 Contemporary Drama**  
Representative plays of major contemporary writers from Ibsen to Beckett.
- ENG 510 Literature and Composition**
- ENG 512 Myth and Literature**  
The principal Greek and Roman myths and their uses in classical and postclassical art and literature.
- ENG 525 Melville**  
An intensive study of the works of Herman Melville with primary emphasis on his prose fiction, especially *Moby Dick*. The course will involve close scrutiny of critical clichés about Melville.
- ENG 530 Henry James**
- ENG 540 American Writing Now**
- ENG 551 Chaucer**
- ENG 553 Old English Literature**
- ENG 555 Literature of the English Renaissance**

## Arts and Sciences

- ENG 560      **Metaphysical Poetry**
- ENG 565      **Shakespeare**
- ENG 566      **Milton**
- ENG 568      **Eighteenth Century Literature**
- ENG 570      **The Romantic Period**
- ENG 571      **Victorian Literature**
- ENG 575      **Modern Literature**
- ENG 577      **Modern English Grammar**
- ENG 582      **Old English**
- ENG 583      **Transformational Grammar**  
The goals of generative-transformational theory; detailed analysis of the generative-transformational model; pedagogical application.
- ENG 590      **Literary Criticism**
- ENG 621      **Seminar: American Transcendentalists**
- ENG 635      **Seminar: The American Novel**
- ENG 657      **Seminar: English Drama to 1590**
- ENG 658      **Seminar: English Drama to 1590-1640**
- ENG 660      **Seminar: Humanism and Science, 1600-1660**
- ENG 665      **Eighteenth Century Studies**
- ENG 670      **Seminar: The Nineteenth Century English Novel**
- ENG 674      **Twentieth Century Literature**
- ENG 680      **Independent Reading I**
- ENG 681      **Independent Reading II**
- ENG 690      **The Master's Project**

## Department of History

Professors:	Charles W. Akers, Chairman Richard M. Brace Melvin Chernob Robert C. Howes George T. Matthews
Associate Professors:	V. John Barnard Harold Gorvine W. Patrick Strauss S. Bernard Thomas
Assistant Professors:	Leonardas V. Gerulaitis Gerald C. Heberle Robert J. Krompart Anne H. Tripp Richard P. Tucker Caleb R. Woodhouse
Instructors:	Leonard Bushkoff Roy A. Kotynek

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

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

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN HISTORY

Admission to major standing requires successful completion of two Freshman Exploratories, any two history courses, two

semesters of foreign language study, and acceptance by the Department of History. Completing the major requires eight departmental courses exclusive of University Courses. The eight courses must include HST 141-142 and one 400-level course. A normal program will involve work in more than one field of history.

#### REQUIREMENTS FOR THE HISTORY MAJOR WITH AREA STUDIES CONCENTRATION

Admission to major standing requires successful completion of two Freshman Exploratories, any two history courses, two semesters of foreign language study, acceptance by the Department of History, and concurrent acceptance by the Area Studies Committee. Completing the major requires six history courses, including HST 141-142. See pp. 140-44.

#### REQUIREMENTS FOR THE SECONDARY TEACHING MAJOR IN HISTORY

Admission to major standing requires successful completion of two Freshman Exploratories, any two history courses, two 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 141-142, HST 214-215, and one 400-level history course. The following education courses are also required: ED 244-245, ED 428, ED 455. Students with this major who wish to elect a social studies minor must confer with Placement Office and/or the Office of the School of Education before planning their programs.

#### REQUIREMENTS FOR THE SECONDARY TEACHING MINOR IN HISTORY

Completing a teaching minor requires 16 credits in Department of History courses including HST 214-215, plus 4 credits drawn from among UC 01B, UC 01E, UC 036, UC 062, UC 066, or a Senior Colloquium in an appropriate area. Social studies majors who wish to elect this minor must confer with the Placement Office and/or the Office of the School of Education before planning their programs.

#### LIBERAL ARTS MAJOR IN HISTORY

(A typical program)

Semester 1

Freshman Exploratory  
HST 141

Semester 2

Freshman Exploratory  
HST 142



Distribution Requirement  
Foreign Language

Semester 3

Distribution Requirement  
Distribution Requirement  
HST  
Foreign Language

Semester 5

Distribution Requirement  
HST  
Elective  
Elective

Semester 7

HST (400 level)  
Elective  
Elective  
Elective

Distribution Requirement  
Foreign Language

Semester 4

Distribution Requirement  
Distribution Requirement  
HST  
Foreign Language

Semester 6

Distribution Requirement  
HST  
Elective  
Elective

Semester 8

Senior Colloquium  
HST  
Elective  
Elective

## SECONDARY TEACHING MAJOR IN HISTORY

(A typical program)

Semester 1

\*Freshman Exploratory  
HST 141  
Distribution Requirement  
Foreign Language

Semester 3

HST 214  
Distribution Requirement  
ED 244  
Distribution Requirement

Semester 5

Minor  
HST  
HST  
Distribution Requirement

Semester 7

Senior Colloquium  
Minor  
HST (400 level)  
Elective

Semester 2

Freshman Exploratory  
HST 142  
Distribution Requirement  
Foreign Language

Semester 4

HST 215  
Distribution Requirement  
ED 245  
Minor

Semester 6

Minor  
HST  
Distribution Requirement  
Elective

Semester 8

ED 428  
ED 455

\*Freshman Exploratory should be used by English minors as a substitute for a Distribution Requirement.

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

HST 141-142 and HST 214-215 are offered at least every Fall and Winter Semester, and the Department attempts to schedule other introductory courses at frequent, regular intervals.

#### DEPARTMENTAL COURSE PREREQUISITES

100-level courses: none.

200-level courses: two Freshman Exploratories.

300-level courses: two Freshman Exploratories plus special requirements listed beneath the courses.

400-level courses: major standing in the Department of History plus special requirements listed beneath the courses.

All prerequisites may be waived by special permission of the course instructor.

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

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

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

HST 142 (Europe, 1792-present) studies the revolutionary destruction of the old regimes, the establishment of liberal parliamentary democracies, and the rise of totalitarian movements in the present era of global wars.

Open to freshmen: either course satisfies the Western History and Philosophy Distribution Requirement.

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

An integrated series 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.

**HST 223 Greek Civilization**

A survey of Greek history and culture from the Bronze Age to the Hellenistic Age. Identical with CLS 301.

**HST 224 Roman Civilization**

A survey of Roman history and culture from the regal age to the fall of Rome. Identical with CLS 302.

**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.

**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, from 1856 to the present.

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

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

Prerequisite: HST 214.

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

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

Prerequisite: HST 214.

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

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

Prerequisite: HST 214.

**HST 311 The Age of Jackson, 1825-1850**

The economic, political, and social development in the United States, emphasizing the changing nature of political parties, material and intellectual influences shaping American democracy, westward expansion, and sectional conflict.

Prerequisite: HST 214.

**HST 312 The Civil War and Reconstruction, 1850-1876**

The origins of 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 214.

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

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

Prerequisite: HST 215.

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

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

Prerequisite: HST 215.

**HST 315 American History Since 1928**

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

Prerequisite: HST 215.

**HST 316, 317 American Intellectual History**

A study of the intellectual and cultural activities of the American people and their leaders. Special attention is given to popular culture as well as to the major developments in religion, philosophy, science, literature, and the arts.

HST 316 surveys American intellectual history from the colonial period to the Civil War.

Prerequisite: HST 214.

HST 317 explores major intellectual and cultural trends from the Civil War to the present.

Prerequisite: HST 215.

**HST 318 Topics in American Social History**

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

Prerequisite: HST 215.

**HST 319 History of the American Negro**

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

Prerequisite: HST 215.

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

HST 320 is a study of U. S. diplomatic history from the Revolution to 1890.

Prerequisite: HST 214.

HST 321 is a study of U. S. diplomatic history from the Spanish-American War to the present.

Prerequisite: HST 215.

**HST 324 The Ancient Historians**

A survey of the aims, methods, achievements, and limitations of ancient

historiography through a reading, in translation, of the most prominent ancient historians. Identical with CLS 324.

**HST 325 Medieval Europe**

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

Prerequisite: HST 141.

**HST 326 The Renaissance**

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

Prerequisite: HST 141.

**HST 327 The Reformation**

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

Prerequisite: HST 141.

**HST 334 Victorian and Edwardian England**

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

Prerequisite: HST 142 or HST 234 or HST 235.

**HST 335 Twentieth Century Britain**

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

Prerequisite: HST 142 or HST 234 or HST 235.

**HST 337 Hellenic Greece**

Greek history from the Bronze Age to the Peloponnesian War.

**HST 338 Hellenistic Greece**

Greek history from Alexander the Great to the Roman period.

**HST 339 Republican Rome**

Roman history from the regal period to the end of the Republic.

**HST 340 Imperial Rome**

Roman history from the principate of Augustus to the fall of the western empire.

**HST 341 Europe since 1914**

Analysis of Europe in world perspective since World War I.

**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.

**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.

**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 philosophers and propagandists (Feuerbach, Bakunin, Marx, Kropotkin), the course will move to a consideration and evaluation of attempts to organize revolu-

tionary movements around anti-theological doctrines (Germany in 1848, France in 1871, Russia in 1905).

**HST 345 France Since 1789**

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

**HST 346 History of European Social Classes**

European social strata; their interrelationships; their connections with economic, political, and cultural developments; and their transformations from the breakdown of the medieval hierarchical principle through the age of modern class conflict to current tendencies.

**HST 347 Tools of Historical Research**

This course is designed to acquaint the history student with the auxiliary sciences of that discipline. Special emphasis is placed on historical bibliography and the use of the library. This course is appropriate for all history majors and especially for those planning to pursue graduate study.

Prerequisite: Admission to major standing in the Department of History.

**HST 352 Kiev and Muscovy**

A study of the political, social, and cultural development of Russia to 1613.

Prerequisite: HST 251 or HST 252.

**HST 353 Imperial Russia**

An intensive study of Russia from Peter the Great to the Bolshevik Revolution.

Prerequisite: HST 251 or HST 252.

**HST 354 Soviet Russia**

An intensive study of Soviet Russia, from 1917 to the present.

Prerequisite: HST 251 or HST 252.

**HST 355 Russian Intellectual History**

A study of the main developments in Russian thought during the nineteenth century with emphasis on the slavophiles, the westernizers, the Russian populists and socialists, and several of the great realistic writers.

Prerequisite: HST 251 or HST 252.

**HST 356 Russian Foreign Policy, 1700-1960**

A study of the foreign policy of Tsarist and Soviet Russia from Peter the Great to Stalin, with special emphasis on the underlying economic, geographical, ideological, and institutional influences on Russian diplomacy.

Prerequisite: HST 251 or HST 252.

**HST 372 Development of the Imperial Chinese State**

An analysis of the growth of the Imperial Confucian State from the Ch'in-Han period (the third century B.C. to the third century A.D.) down to the consolidation of the Ch'ing (Manchu) dynasty in the eighteenth century.

Prerequisite: UC 062.

**HST 373 Nineteenth Century China**

The course will first survey imperial China during the half century preceding the Opium War of 1839-42. It will then examine China's growing crisis in the context of the massive Western impact during the second half of the nineteenth century, leading to the collapse of the traditional Chinese order in the first two decades of the twentieth century.

Prerequisite: UC 062.

**HST 374 Nationalism and Communism in China**

This course, focusing on the Nationalist (Kuomintang) and the Communist periods, will trace the patterns of revolutionary nationalism in China from 1919 to the present.

Prerequisite: UC 062.

**HST 382 Mughal and British India, 1526-1860**

Politics and society of Islam, Hinduism, and Sikhism in the premodern era: European competition for power and British victory; the character of British imperialism.

Prerequisite: UC 066.

**HST 383 India: The Nationalist Era, 1860-1947**

The impact of modernization on Hindu and Muslim society; the rise of Hindu nationalism; the growth of regionalism and the Hindu-Muslim conflict.

Prerequisite: UC 066.

**HST 391 Directed Readings in History**

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

Prerequisite: Permission of the Department.

**HST 411 Senior Seminar in American History**

Reading and research in selected topics.

Prerequisites: HST 214-215.

**HST 431 Senior Seminar in British History**

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

Prerequisites: Two courses in British history.

**HST 441 Senior Seminar in European History**

Reading and research in selected topics.

Prerequisites: Two courses in European history.

**HST 481 Seminar in Historiography**

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

Prerequisites: Four history courses.

**HST 491 Directed Research in History**

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

Prerequisite: Permission of the Department.

## Department of Mathematics

Professors:	G. Philip Johnson, Chairman Louis R. Bragg John W. Dettman James H. McKay
Associate Professors:	Harvey J. Arnold Donald G. Malm Harvey A. Smith Beauregard Stubblefield
Assistant Professors:	Robert C. Busby Ronald A. DeVore Jon Froemke
Instructors:	George A. Kozlowski C. Peter Lawes Irwin Schochetman

The Department of Mathematics offers programs of study leading to the degrees of Bachelor of Arts with major in mathematics, Bachelor of Arts with secondary teaching major in mathematics, Master of Arts in mathematics, and Master of Arts in Teaching in mathematics. In addition, the Department offers courses which are required or are used as electives in other programs of the University. For further information on graduate programs of the Department, see the *Graduate Bulletin*.

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN MATHEMATICS

Nine courses in mathematics are required, among which must be MTH 351 and MTH 375. (MTH 125, 131, 134, 226, 314, 315, 316, or 322 may not be used to satisfy this requirement. Each student is advised to complete MTH 352 and MTH 376.) Two science courses are required, totalling 8 credits, to be taken from the same department; four courses, totalling 16 credits, in a subject related to mathematics are also required. (These courses must be taken in a single department. If they are taken in a science, they may be used simultaneously to satisfy the two-course science requirement.) Students planning to do graduate work should take several additional mathematics courses, including MTH 461 and courses at the 500 level. Admission to major standing requires four courses in mathematics, among which MTH 255 must be included.

### REQUIREMENTS FOR THE SECONDARY TEACHING MAJOR IN MATHEMATICS

Eight courses in mathematics are required. (MTH 125, 131, 134,



314, 315, or 316 may not be used to satisfy this requirement. Each student is advised to complete MTH 351, MTH 361, and MTH 375.) Two courses in science are required, totalling 8 credits. A minor consisting of five or six courses, totalling 20 or 24 credits is also required. (If the minor is taken in one department, five courses totalling 20 credits are required; if the minor is taken in an area, such as science or social science, six courses totalling 24 credits are required. See p. 157 for details. A science minor is recommended, but other minors are permissible. If the minor is in science, the courses may be used simultaneously to satisfy the two-course science requirement.) Finally, four courses in education (Ed 244, 245, 428, and 455) are required. Admission to major standing requires four courses in mathematics, including MTH 255, 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 226, 254, 255, 325, 326, 335, 361, 375, and 376. (MTH 125, 131, 134, 314, 315, or 316 may not be used to satisfy this requirement.)

#### PROFICIENCY EXAMINATIONS AND ADVANCED PLACEMENT

Well-prepared freshmen who intend to major in mathematics, engineering, or science should plan to take MTH 154 as early as possible. A proficiency examination will be given by the Department, and students judged ready for calculus may enroll in MTH 154. Others must first pass MTH 134. Students who have not had trigonometry should plan to take MTH 134.

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

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

Elementary set theory, sample spaces, combinatorics, random variables, Chebyshev's inequality, Bernoulli trials, binomial distribution, joint distributions, and introduction to statistics. This course is not open to students who have taken MTH 155 or the equivalent.

Prerequisites: Three years of high school mathematics.

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

The basic concepts, theorems, and applications of calculus, including material on functions of more than one variable and infinite series. Credit cannot be earned for both MTH 131 and 154 or 155.

Prerequisites: Three years of high school mathematics.

## Arts and Sciences

### **MTH 134 Elementary Functions**

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

Prerequisites: Three years of high school mathematics.

### **MTH 154-155 Calculus**

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

Prerequisite: MTH 134 or satisfactory performance on proficiency examination.

### **MTH 185-186 Mathematics—An Exploration into Undergraduate Topics**

An introduction to topics selected from probability, calculus, linear algebra, group theory, number theory, abstract algebra, topology, projective geometry, logic, and foundations. The student will be expected to acquire familiarity and experience with abstract reasoning as it is applied in various areas of mathematics.

Prerequisites: Three years of high school mathematics and permission of the instructor.

### **MTH 226 Applied Statistics**

Introduction to statistics as applied to the physical, biological, and social sciences and to engineering. Applications of special distributions, non-parametric techniques, regression analysis, and analysis of variance. Credit cannot be earned for both MTH 125 and MTH 226.

Prerequisite: MTH 155.

### **MTH 254 Intermediate Calculus and Linear Algebra**

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

Prerequisite: MTH 155.

### **MTH 255 Intermediate Calculus**

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

Prerequisite: MTH 254.

### **MTH 314 Structure of Number Systems**

Emphasizes the logical structure of the real number system. Properties of the natural numbers, integers, rational numbers, and real numbers are carefully proved. Computational techniques and teaching methods which pertain to the mathematics of the elementary grades. Enrollment is limited to majors in elementary education. Not open to freshmen.

Prerequisites: Two years of high school mathematics.

### **MTH 315 Algebraic Structures**

From properties of numbers, algebraic concepts are developed; examples of other algebraic systems are investigated to show the generality and structure of algebra. Enrollment is limited to majors in elementary education. Not open to freshmen.

Prerequisite: MTH 314.

### **MTH 316 Geometric Structures**

Selected topics from Euclidean geometry, finite projectives and finite affine geometry, analytic geometry, and set theory. Includes an analysis

of axiom systems, ruler and compass constructions, equations of lines, circuits, and graph theory. Enrollment is limited to majors in elementary education. Not open to freshmen.

Prerequisite: MTH 314 or permission of the instructor.

**MTH 322 Mathematical Models for Decision-making**

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

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

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

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

Prerequisite: MTH 255.

**MTH 335 Introduction to Numerical Analysis**

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

Prerequisite: MTH 254.

**MTH 351-352 Introduction to Analysis**

A careful development of the properties of functions of one and several real variables including a study of sequences, series, limits, continuity, differentiation, and integration.

Prerequisite: MTH 255.

**MTH 361 Geometry**

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

Prerequisite: MTH 254.

**MTH 375-376 Modern Algebra**

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

Prerequisite: MTH 254.

**MTH 405 Special Topics**

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

Prerequisite: Permission of the Department.

**MTH 415 Foundations of Mathematics**

An examination of the logical foundations of mathematics including analysis of the axiomatic method, basic set theory, cardinal and ordinal numbers, and the axiom of choice.

Prerequisite: MTH 351 or permission of the instructor.

**MTH 416 Concepts of Geometry**

A development of geometry from an algebraic and metric viewpoint, concentrating on Euclidean geometry. Especially appropriate for Master of Arts in Teaching candidates.

Prerequisite: Permission of the Department.

**MTH 425 Probability**

Combinatorial analysis, conditional probability, random variables, generating functions, recurrent events, random walk problems, Markov chains, and stochastic processes.

Prerequisite: MTH 325 or permission of the instructor.

**MTH 431 Methods of Mathematical Physics**

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

Prerequisite: MTH 255.

**MTH 453 Multidimensional Analysis**

Integrals over manifolds in  $E^n$ , differential forms and their calculus, and the general Stokes theorem.

Prerequisite: MTH 352.

**MTH 455 Introduction to Complex Variable Theory**

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

Prerequisite: MTH 255.

**MTH 461 General Topology**

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

Prerequisite: MTH 352.

**MTH 472 Number Theory**

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

Prerequisite: MTH 254.

**MTH 490 Independent Study**

Library research on some mathematical topic.

Prerequisite: Permission of the Department.

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

Designed for Master of Arts in Teaching candidates. Includes topics from groups, rings, fields, matrices, linear transformations, and vector spaces.

Prerequisite: Permission of the Department.

**MTH 517-518 Concepts in Analysis**

Designed for Master of Arts in Teaching candidates. Includes a study of real and complex numbers, functions, limits, differentiation, integration, and infinite series with emphasis on careful proofs of theorems.

Prerequisite: Permission of the Department.

**MTH 531 Mathematical Methods in Engineering I**

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

Prerequisite: Permission of the Department.

**MTH 532 Mathematical Methods in Engineering II**

Functions of several variables, vector field theory, partial differential

equations, boundary value problems, Fourier series, and Fourier integrals.  
Prerequisite: Permission of the Department.

**MTH 551-552 Real Analysis**

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

Prerequisite: MTH 352.

**MTH 555-556 Complex Analysis**

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

Prerequisite: MTH 352.

**MTH 561-562 Topology**

Topics will be chosen from homology theory, homotopy theory, co-homology theory, and point-set topology at the discretion of the instructor.

Prerequisites: MTH 376 and 461.

**MTH 565 Topological Algebraic Structures**

A brief survey of topological groups, vector spaces, and algebras followed by detailed study of one or more special cases, such as locally compact groups, Lie groups, Banach spaces, or Banach algebras.

Prerequisite: Permission of the Department.

**MTH 571-572 Algebra**

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

Prerequisite: MTH 376.

**MTH 590 Directed Reading and Research**

Prerequisite: Permission of the Department.

## Department of Modern Languages and Literatures

Professors:	Robert E. Simmons (German), Chairman Carmine R. Linsalata (Spanish) Richard A. Mazzara (French) Norman Susskind (French), Assistant Chairman Amitendranath Tagore (Chinese)
Associate Professors:	Mrs. Dolores Burdick (French) Alfred J. DuBruck (French) Mrs. Helen Kovach (Russian) Jack R. Moeller (German)
Assistant Professors:	John W. Barthel (German) William C. Bryant (Spanish) Edward L. Buote (Chinese) George H. Engeman, Jr. (Spanish) Don R. Iodice (French) Miss Helene Mitterkalkgruber (German) Luis A. Vargas (Spanish)
Instructors:	Maurice J. Beznos (French) Carlo Coppola (Hindi-Urdu) Mrs. Renate Gerulaitis (German) Reiner M. Guertler (German) Mrs. Janet Karpisek (Spanish) Mrs. Monique B. Pitts (French)
Special Instructors:	Lee M. Corrigan (Russian) Norbert Noeldechen (German) Shih-Chen Peng (Chinese) Mrs. Carmen M. Urla (Spanish)
Assistant Instructor:	Miss Anna Massacesi (Spanish)

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

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

at the secondary and elementary levels.

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

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

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

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

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

## Arts and Sciences

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

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN A MODERN LANGUAGE

The requirement is nine courses in the chosen language and its literature (except Chinese) beyond 215. Ordinarily these include two sequences—Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences to be taken concurrently), and five advanced courses at the 300-499 level. All majors (except Chinese) must complete a departmental reading list and participate in LANG 480, which is based upon materials from the reading list. LANG 480 is ordinarily scheduled during the student's eighth semester. Majors are urged to elect courses in other literatures, history, philosophy, art, and linguistics related to their major. Those planning to do graduate work are strongly urged to begin work in a second language to be recommended by the Department. For concentrations in French and linguistics and German and linguistics see p. 146.

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

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN CHINESE LANGUAGE AND CIVILIZATION

The requirement in Chinese for this major is seven courses, ordinarily CHE 114-115, 214-215, and three others selected from departmental offerings in consultation with an adviser. Five Chinese area studies courses beyond UC 062 are also required. For more information on this program, see the Concentration in



Area Studies on pp. 140-41 of this catalog. Requirements for admission to major standing and exceptions to the language course requirements are the same as those stated above for the liberal arts major in a modern language.

#### REQUIREMENTS FOR THE SECONDARY TEACHING MAJOR IN A MODERN LANGUAGE

The requirement is eight courses in the chosen language and its literature (except Chinese) beyond 215. Ordinarily these include two sequences--Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences to be taken concurrently), LANG 361, 365, and two courses at the 400-499 level. All majors (except Chinese) must complete a departmental reading list and participate in LANG 480, which is based upon materials from the reading list. LANG 480 is ordinarily scheduled during the student's eighth semester. In addition, 20 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.

#### REQUIREMENTS FOR THE SECONDARY TEACHING MINOR IN A MODERN LANGUAGE

The requirement is four courses in the chosen language beyond 215. These normally include Composition and Conversation 261-262 and Advanced Composition and Conversation 361. The fourth course usually recommended is 365, but 271 or 272 may be taken in its place. Students are strongly urged to take as many additional courses at the 300-499 level as their schedules will permit.

#### REQUIREMENTS FOR AN ELEMENTARY TEACHING CONCENTRATION

The Modern Language Concentration is designed for students who wish to teach a foreign language in the elementary grades or at the junior high school level. The requirements are the same as those for the teaching minor (above). For complete details on other requirements, including courses in education, see pp. 158-59.

#### LIBERAL ARTS MAJOR IN MODERN LANGUAGE<sup>1</sup>

(A typical program)

Semester 1

Freshman Exploratory  
LANG 214  
Distribution Requirement  
Distribution Requirement

Semester 2

Freshman Exploratory  
LANG 215  
Distribution Requirement  
Distribution Requirement

## Arts and Sciences

### Semester 3

LANG 261  
LANG 271  
Elective  
Distribution Requirement

### Semester 5

Major  
Elective  
Elective  
Distribution Requirement

### Semester 7

Major  
Elective  
Elective  
Distribution Requirement

### Semester 4

LANG 262  
LANG 272  
Elective  
Distribution Requirement

### Semester 6

Major  
Elective  
Elective  
Distribution Requirement

### Semester 8

LANG 480  
Major  
Elective  
Senior Colloquium

## SECONDARY TEACHING MAJOR IN MODERN LANGUAGE<sup>1</sup>

(A typical program)

### Semester 1

Freshman Exploratory  
LANG 214  
UC 054  
Distribution Requirement

### Semester 3

LANG 261  
LANG 271  
ED 244  
Distribution Requirement

### Semester 5

LANG 361  
LANG 365  
Elective  
Distribution Requirement

### Semester 7

Major  
Senior Colloquium  
ED 428  
Elective

### Semester 2

Freshman Exploratory  
LANG 215  
Elective  
Distribution Requirement

### Semester 4

LANG 262  
LANG 272  
ED 245  
Distribution Requirement

### Semester 6

Major  
Elective  
Elective  
Distribution Requirement

### Semester 8

LANG 480  
ED 455

<sup>1</sup>Prospective majors should have completed, wherever possible, at least two years of a single language in high school.

## *Chinese Language and Civilization*

**CHE 114-115 First Year Chinese (5 credits each)**  
An introduction to modern Mandarin Chinese (Kuo-yu), emphasizing

both conversation and reading.

**CHE 214-215 Second Year Chinese (5 credits each)**

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

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

**CHE 310 Literary Chinese**

Studies based upon literary texts of Confucius, Mo Tzu, etc.

Prerequisite: CHE 215 or permission of the instructor.

**CHE 320 Readings in Chinese Newspapers**

Selections from newspapers of mainland China, Taiwan, and southeast Asia.

Prerequisite: CHE 215 or permission of the instructor.

**CHE 330 Readings in Chinese Communist Documents**

Studies in documentary style of Chinese, selected mainly from writings of twentieth century political leaders of China.

Prerequisite: CHE 215 or permission of the instructor.

**CHE 340 Twentieth Century Chinese Literature**

Studies in the modern *pai-hau* literature, including short-stories, poems, essays, pamphlets.

Prerequisite: CHE 215 or permission of the instructor.

**CHE 410 Traditional Chinese Fiction and Drama**

Studies in texts and criticism of classical drama from Yüan and other dynasties.

Prerequisite: CHE 310, or CHE 340, or permission of the instructor

**CHE 420 Chinese Classics and Philosophers**

Studies of texts in advanced literary Chinese of Lao Tzu, Chuang Tzu, and others.

Prerequisite: CHE 310, or CHE 320, or permission of the instructor.

**CHE 430 Chinese Historical Writings**

Literary texts of ancient Chinese historiography.

Prerequisite: CHE 310, or CHE 320, or permission of the instructor.

**CHE 440 Chinese Poetry**

Selections from either classical T'ang and Sung Dynasty poems or from the post-May-4th movement of poetry.

Prerequisite: CHE 310, or CHE 320, or permission of the instructor.

**CHE 490 Directed Readings and Research in Chinese**

For students with a high degree of competence in the language. Might be conducted either in literary Chinese or in modern languages.

Prerequisite: Major standing and permission of the instructor.

## *French Language and Literature*

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

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

**FRH 114-115 First Year French (5 credits each)**

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

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

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

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

**FRH 214-215 Second Year French (5 credits each)**

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

Prerequisite: FRH 115 or an appropriate placement examination score.

**FRH 251 French Civilization**

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

Prerequisite: FRH 215 or an appropriate placement examination score.

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

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

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

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

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

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

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

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

FRH 285 covers the period from the Renaissance to the nineteenth century.

FRH 286 deals with the nineteenth and twentieth centuries.

Prerequisite: Sophomore standing or permission of the instructor.

**FRH 361 Advanced Composition and Conversation**

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

Prerequisite: FRH 262.

**FRH 365 Applied Linguistics of French**

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

Prerequisite: FRH 262 or permission of the instructor.

**FRH 411 Literature of the French Renaissance**

Literary, intellectual, and linguistic trends as seen in selected works of principal authors of this period: Rabelais, Marot, Montaigne, Ronsard, and others. Conducted in French.

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

Prerequisite: FRH 272.

**FRH 431, 432 Eighteenth Century French Literature**

FRH 431 deals with the development of the philosophical spirit from Bayle to Voltaire; the interplay between France and England; the comedy of Marivaux and Beaumarchais and developments in the novel. FRH 432 deals with political, social, and ethical thought of the Enlightenment; the Encyclopedists and later *Philosophes*. Primarily a study of Montesquieu, Diderot, and Rousseau, including the origins of Romanticism. These courses are conducted in French and are offered in alternate years.

Prerequisite: FRH 272.

**FRH 441, 442 Nineteenth Century French Literature**

FRH 441 is concerned with the flowering of Romanticism and the beginnings of Realism: novelists, dramatists, poets, and essayists, including Chateaubriand, Lamartine, Hugo, Vigny, Musset, Nerval, and Stendhal. FRH 442 deals with the realistic novel, review of the Parnassian poets and the problem play, and the esthetics of Naturalism; the relation of literature to the philosophical, political, and social ideas of the time. Primarily a study of Balzac, Flaubert, Zola, the Goncourts, and de Maupassant. These courses are conducted in French and offered in alternate years.

Prerequisite: FRH 272.

**FRH 451 Twentieth Century French Novel**

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

Prerequisite: FRH 272.

**FRH 452 Twentieth Century French Theatre**

Drama since the *Théâtre Libre*. Theatrical innovations and reforms of

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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 Modern French Poetry**

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

Prerequisite: FRH 272.

### **FRH 480 Seminar in French Literature**

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

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

### **FRH 490 Independent Reading and Research**

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

Prerequisite: Permission of the Department.

### **FRH 505-506 Composition and Conversation**

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

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

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

### **FRH 510 French Stylistics**

Theory and practice of French stylistics.

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

### **FRH 565 Applied Linguistics of French**

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

Prerequisite: Permission of the instructor.

### **FRH 580 Graduate Seminar**

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

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

## *German Language and Literature*

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

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

### **GRM 114-115 First Year German (5 credits each)**

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

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

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

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

**GRM 214-215 Second Year German (5 credits each)**

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

Prerequisite: GRM 115 or an appropriate placement examination score.

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

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

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

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

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

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: Sophomore standing or permission of the instructor.

**GRM 361 Advanced Composition and Conversation**

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

Prerequisite: GRM 262.

**GRM 365 Applied Linguistics of German**

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

Prerequisite: GRM 262 or 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 to 8 credits per semester and may be taken for one or more semesters.

Prerequisite: Permission of the Department.

*Russian Language and Literature*

**RUS 114-115 First Year Russian (5 credits each)**

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

**RUS 214-215 Second Year Russian (5 credits each)**

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

Prerequisites: RUS 115 or evidence of proficiency and permission of the Department.

**RUS 261-262 Russian Composition and Conversation**

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

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

**RUS 271, 272 Introduction to Russian Literature**

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

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



**RUS 285, 286 Survey of Russian Literature**

RUS 285 covers Russian literature from the beginning to 1880 and emphasizes the realistic novel. RUS 286 deals with the period from 1880 to the present and mainly is concerned with Soviet literature. Lectures and readings in English. Either course may be taken independently of the other. Not open to Russian majors.

Prerequisite: Sophomore standing or permission of the instructor.

**RUS 361-362 Advanced Composition and Conversation**

Intensive oral work designed to perfect conversational ability with emphasis on phonetics and diction. Extensive written work along with analysis of style in selected passages from Russian authors. RUS 361 is recommended for elementary teaching majors and is required for secondary teaching majors. RUS 361-362 is required for Russian majors in liberal arts.

Prerequisite: RUS 262.

**RUS 365 Applied Linguistics of Russian**

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

Prerequisite: RUS 262 or permission of instructor.

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

The major Russian poets from 1800 to 1840: Zhukovsky, Batyushkov, Delvig, Baratynsky, Yazykov, and Lermontov. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

**RUS 427 Russian Poetry of the Second Half of the Nineteenth Century**

Study of poetry from 1840 to Symbolism with special emphasis on Tyutchev, Fet, A. Tolstoy, and Nekrasov. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

**RUS 428 Pushkin**

Study of Pushkin's poetry, prose, and drama. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

**RUS 432 Gogol**

Study of Gogol's works and his place in Russian literature. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

**RUS 433 Russian Drama**

Survey of Russian drama from the seventeenth century to the present. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

**RUS 434 Russian Realism**

Russian realistic novel from 1840 to 1880. Selections from the major novelists. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

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### **RUS 435 Chekhov**

Devoted mainly to Chekhov's prose but includes other prose writers of the time such as Garshin, Korolenko, Gorky, Bunin, Kuprin, and Andreev. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 441 Tolstoy**

Study of Tolstoy's literary and moral development as reflected in his major works. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 442 Dostoevsky**

Study of Dostoevsky's evolution as a writer and thinker. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 448 The Silver Age**

A survey of Russian Symbolism, Acmeism, and Futurism with an emphasis on the poets of the Silver Age. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 450 Soviet Literature**

A survey of the main trends of Soviet literature from 1917 to the present. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 480 Seminar in Russian Literature**

Intensive investigation of some aspect of Russian literature.

Prerequisites: Major standing in Russian and permission of instructor.

### **RUS 490 Independent Reading and Research**

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

Prerequisite: Permission of the Department.

## *Spanish Language and Literature*

### **SPN 101-102 Elementary Reading in Spanish**

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

### **SPN 114-115 First Year Spanish (5 credits each)**

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

### **SPN 201-202 Intermediate Reading in Spanish**

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

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

**SPN 214-215 Second Year Spanish (5 credits each)**

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

Prerequisite: SPN 115 or an appropriate score on a placement examination.

**SPN 261-262 Spanish Composition and Conversation**

Devoted to increasing the student's command of the language and familiarizing him with idiomatic Spanish. Intensive practice in oral and written composition as well as translation. Techniques of textual analysis and exposition are introduced. Conducted primarily in Spanish. Prerequisite: SPN 215 or an appropriate score on a placement examination. Especially qualified freshmen may be admitted.

**SPN 271, 272 Introduction to Spanish Literature**

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

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

**SPN 285, 286 Survey of Spanish and Latin-American Literature**

SPN 285 will be a survey of Spanish literature from El Cid through the twentieth century. SPN 286 will include major works from Latin America. Lectures and readings in English. Either course may be taken independently of the other. Not open to Spanish majors.

Prerequisite: Sophomore standing or permission of the instructor.

**SPN 361 Advanced Composition and Conversation**

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

Prerequisite: SPN 262.

**SPN 365 Applied Linguistics of Spanish**

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

Prerequisite: SPN 262 or 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 Vélez 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 de-

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velopment of Spanish drama. Includes Tirso de Molina and the Don Juan legend, Ruiz de Alarcón, Guillén de Castro, and others.  
Conducted in Spanish.

SPN 423 places special emphasis on Calderón. Includes Rojas Zorrilla, Moreto, Quiñones 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 Martínez de la Rosa, Hartzbusch, Duque de Rivas, Espronceda, Zorrilla, Fernández y González, 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 Fernán Caballero, Galdós, Pardo Bazán, Palacio Valdés. Selections from principal poets and dramatists, including Bécquer, 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, Azorín, Valle-Inclán, Pérez 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 Rubén Darío and his influence. Selections from authors such as Gutiérrez Nájera, Martí, Rodó, Santos Chocano, and Amado Nervo. 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 José Vasconcelos, Alfonso Reyes, Horacio Quiroga, Rómulo 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, Zunzunegui, Laforet, Gironella, Goytisolo, and others. Conducted in Spanish and offered in alternate years.  
Prerequisite: SPN 272.

### **SPN 480 Seminar in Spanish Literature**

Study of individual authors, selected themes, or critical problems.  
Prerequisites: Major standing in Spanish and permission of the instructor.

### **SPN 490 Independent Reading and Research**

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

for one or more semesters.

Prerequisite: Permission of the Department.

### *Modern Language*

#### **ML 500 The Teaching of Modern Languages I**

An introduction to the use of techniques of applied linguistics in the teaching of modern foreign languages. Special emphasis on the problems of developing speaking and writing skills, teaching of structure, and the construction of testing devices. Presupposes a major concentration in a foreign language and previous teaching experience at the junior high or high school levels.

Prerequisite: Permission of the Department.

#### **ML 501 The Teaching of Modern Languages II**

An advanced-level, linguistically-oriented course with emphasis on the preparation of materials for intermediate and advanced classes. Presupposes a major concentration in a foreign language and previous teaching experience at the junior high or high school levels.

Prerequisite: One of the following: Education 428 (Teaching of Modern Language), Modern Language 500, participation in an NDEA Institute, or permission of the Department.

## Department of Music

Professors:	Walter S. Collins Sixten Ehrling
Associate Professor:	David Di Chiera, Chairman
Assistant Professors:	Miss Helen M. Ellis Robert I. Facko Wilbur Kent
Instructors:	John N. Dovaras David Hoover Clifford Pfeil
Special Instructor:	Miss Alice Engram

The Department of Music offers three major programs: (1) The major in music theory and composition is designed to prepare the student for graduate study in theory and composition, for college teaching, and for composing, arranging, and conducting. (2) The major in music history and literature is designed to prepare the student for graduate work in musicology, for college teaching, and for criticism and writing about music. (3) The teaching major in music is designed to prepare the student for a career in teaching or supervising music in the elementary school or for teaching music in the secondary school. Michigan certification for both elementary and secondary teaching may be earned in this program.

Music is also a part of the extracurricular life at Oakland University. There are performance groups of various kinds on campus, and there is a lecture-concert series which brings outstanding performers to the Oakland community. During the summer the University becomes the second home of the Detroit Symphony Orchestra, which performs for the Meadow Brook Music Festival. In addition, Oakland's proximity to Detroit allows students to hear, at reduced prices, many great performing artists and to attend a wide variety of musical events in the city.

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN MUSIC THEORY AND COMPOSITION

Minimal course requirements beyond UC 049 or MUS 249 are MUS 211-212, 311-312, 321, 322, 411-412, 492-493, and 16 credits in applied music (10 in the major proficiency and 6 in the minor). German is the recommended foreign language for this major. Admission to major standing requires two Freshman Exploratories,

UC 049 or MUS 249, MUS 211-212. Music majors may complete their general education requirement in the University Course Program or in either New College or Charter College, but it is important that they should first consult with a departmental adviser and the head of their chosen college.

Each major must also satisfy the following three requirements: (1) Demonstration of major proficiency in some solo performing medium. All new and transfer students are expected to audition upon registration in order to qualify for their chosen performance major. Upon acceptance, students should request from the Department of Music a description of methods for satisfying their recital requirements. (2) Demonstration of a minor proficiency in some solo performing medium. Keyboard (piano or organ) must be chosen as a major or minor proficiency. A description of this requirement is available from the Department; it may be satisfied by passing a qualifying examination administered by the Department. All prospective music majors are urged to acquire as much keyboard facility as possible before entering the University. (3) Participation for seven semesters in a recognized performing group at the University. The Department reserves the right to limit the number of credits given for this activity. (4) All music majors are expected to be familiar with the basic literature of music. The music major is expected to know one hundred standard works by the time he graduates. Twenty-five works are suggested for study each year the student is in residence. The list of works is available from the Department.

#### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN MUSIC HISTORY AND LITERATURE

Minimal course requirements beyond UC 049 or MUS 249 are MUS 211-212, 311-312, 321, 322, 411-412, 490, 491, and 16 credits in applied music (10 in the major proficiency and 6 in the minor). All other requirements are the same as those for the major in music theory and composition.

#### REQUIREMENTS FOR THE TEACHING MAJOR IN MUSIC

Students in this major will normally be certified for both elementary and secondary teaching. Minimal course requirements beyond UC 049 or MUS 245 are MUS 211-212, 311-312, 321, 322, 411-412, two courses from the group 401, 402, or 403, and 14 credits in applied music (8 in the major proficiency and 6 in the minor). The following education courses are required: ED 244-245, ED 428, and ED 455. Admission to major standing requires acceptance by the Department of Music and concurrent acceptance into the Teacher Education Program.

## Arts and Sciences

### LIBERAL ARTS MAJOR IN MUSIC

(A typical program)

#### Semester 1

Freshman Exploratory  
MUS 211  
UC 049 or MUS 249  
Foreign Language

#### Semester 3

MUS 311  
MUS 321  
Distribution Requirement  
Foreign Language

#### Semester 5

MUS 411  
Distribution Requirement  
Distribution Requirement  
Elective

#### Semester 7

MUS (490 or 492)  
Distribution Requirement  
Elective  
Elective

#### Semester 2

Freshman Exploratory  
MUS 212  
Distribution Requirement  
Foreign Language

#### Semester 4

MUS 312  
MUS 322  
Distribution Requirement  
Foreign Language

#### Semester 6

MUS 412  
Distribution Requirement  
Distribution Requirement  
Elective

#### Semester 8

Senior Colloquium  
Elective  
Elective

### TEACHING MAJOR IN MUSIC

(A typical program)

#### Semester 1

MUS 211  
Freshman Exploratory  
UC 049 or MUS 249  
Foreign Language

#### Semester 3

MUS 311  
MUS 321  
ED 244  
Distribution Requirement

#### Semester 5

MUS 411  
Distribution Requirement  
Distribution Requirement  
Elective

#### Semester 7

MUS  
Senior Colloquium  
Elective  
Elective

#### Semester 2

MUS 212  
Freshman Exploratory  
UC 054  
Foreign Language

#### Semester 4

MUS 312  
MUS 322  
ED 245  
Distribution Requirement

#### Semester 6

MUS 412  
MUS 403  
Distribution Requirement  
Distribution Requirement

#### Semester 8

ED 428  
ED 455



**MUS 101 University Chorus (1 credit)**

**MUS 102 Oakland Singers (1 credit)**

**MUS 103 Collegium Musicum (1 credit)**

Performance of Renaissance and Baroque chamber music. Present groups include the Renaissance Wind Band (recorders, krummhorn, brass, and percussion) and various small ensembles combining voices and instruments.

**MUS 105 Opera Workshop (1 credit)**

**MUS 111 Beginning Musicianship**

An introduction to the techniques of reading and writing music, notation, pitch, and rhythmic organization, elementary sight singing, dictation, and keyboard familiarity. An elective course for non-music 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.

**MUS 160 Voice\* (2 credits)**

**MUS 161 Piano\* (2 credits)**

**MUS 162 Organ\* (2 credits)**

**MUS 163 Harpsichord\* (2 credits)**

**MUS 164 Violin\* (2 credits)**

**MUS 165 Viola\* (2 credits)**

**MUS 168 Flute\* (2 credits)**

**MUS 169 Oboe\* (2 credits)**

**MUS 170 Clarinet\* (2 credits)**

**MUS 172 French Horn\* (2 credits)**

**MUS 175 Tuba\* (2 credits)**

**MUS 177 Percussion\* (2 credits)**

\*\$60.00 special music fee charged. (Other orchestral instruments by special arrangement.)

**MUS 211-212; 311-312; 411-412 Music Theory (3 credits each)**  
(Required of all music majors.)

A six-semester study of the materials of music and of musical design through aural and visual analysis, student composition, and performance. Included for study are various polyphonic and homophonic styles in western music, instrumentation and elementary orchestration, and contemporary approaches to composition. Laboratory sessions will be provided to develop listening and sight-singing skills.

Prerequisites: Minimum keyboard proficiency and permission of the instructor.

## Arts and Sciences

### **MUS 249 Introduction to the Literature and History of Music**

An introduction for the student with previous musical experience. Substitute for UC 049 for music majors. Normally offered in the Fall Semester.

### **MUS 321 Music History and Literature to 1750**

History and literature of music through the Baroque Period. Designed primarily for music majors. Offered each Fall Semester.

Prerequisite: MUS 249 or permission of the instructor.

### **MUS 322 Music History and Literature Since 1750**

History and literature of music from 1750 to the present. Offered each Winter Semester. Designed primarily for music majors.

Prerequisite: MUS 249 or 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 non-music majors.

Prerequisite: MUS 249 or permission of the instructor.

### **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 non-music majors.

Prerequisite: MUS 249 or permission of the instructor.

### **MUS 342 Music in the Baroque Era**

A study of significant forms, composers, and nationalistic trends in the Baroque Era. Suggested as an elective for non-music majors.

Prerequisite: MUS 249 or permission of the instructor.

### **MUS 345 Twentieth Century Music**

A study of significant styles and composers from Debussy to the present. Suggested as an elective for non-music majors.

Prerequisite: MUS 249 or permission of the instructor.

### **MUS 371-372-373-374 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 Department of Music at the time of their first registration in the University. Normally offered each semester.

Prerequisite: Permission of the instructor.

### **MUS 401 Teaching Music in Elementary Schools**

The organization and content of the general vocal music class in the kindergarten and the first six grades of elementary school. The development of musicality in the child through singing, playing instruments, listening to music, and participating in rhythmic activities. Special emphasis on teaching music reading and ear training to young children.

Prerequisites: MUS 211–212, 321, 322.

### **MUS 402 Teaching Music Literature, History, and Theory in Secondary Schools**

The organization and content of music classes in secondary schools which are not performance oriented. The study of music from the standpoint of the knowledgeable listener. Selections of appropriate repertoire; the study of form, instrumentation, and musical style. The place of music in general history and its relationship to the other arts. The high school music-theory class—its role in the secondary school music

curriculum. The high schools' responsibility to prospective college music majors. Teaching music fundamentals, ear training, orchestration, and composition in secondary schools.

Prerequisites: MUS 211-212, 311-312, 321, 322.

**MUS 403 Conducting Choral Music in Secondary Schools**

The organization and conducting of choral music in junior and senior high schools. The development of the adolescent and young adult voice. Problems of selection of repertoire. The selected choir, the mixed chorus, glee clubs, madrigal groups, and other small vocal ensembles. Historical style in choral singing. Choral festivals and contests.

Prerequisites: MUS 211-212, 321, 322.

**MUS 490 Introduction to Music Bibliography**

A course designed primarily for the music history and literature major. A rigorous and systematic introduction to basic research materials and methodology in musicology.

Prerequisites: MUS 321, 322, 412.

**MUS 491 Directed Research in Music History**

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

Prerequisites: Permission of the instructor and MUS 321, 322, 412.

**MUS 492-493 Advanced Music Theory and Composition**

Primarily for the theory and composition major. Subjects included for study are canon and fugue, advanced orchestration, free composition, speculative theory, and the materials, techniques, and philosophies of twentieth century music.

Prerequisite: MUS 412.