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**OAKLAND UNIVERSITY**

**1970 GENERAL CATALOG 1971**

**ROCHESTER**

**MICHIGAN**

## OFFICIAL PUBLICATIONS OF OAKLAND UNIVERSITY

### **Oakland University Undergraduate Programs**

General Catalog published annually in April.

### **Oakland University Graduate Programs**

Graduate Bulletin published annually in November.

### **Oakland University Summer School**

Bulletin published annually in February.

### **Academy of Dramatic Art**

Prospectus published annually in March.

### **Division of Continuing Education**

Catalog published twice yearly in September and January.

## 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**

Undergraduate Students — Director of Admissions

Graduate Students — Dean of Graduate Study

Academy of Dramatic Art — Administrative Director

### **Business Matters**

Director of Business Affairs

### **Career-oriented and Graduate Placement**

Director, Placement Office

### **Continuing Education**

Dean of Continuing Education

### **Educational Program, Transcripts, Academic Reports**

The Registrar

### **Loans and On-Campus Employment**

Undergraduate Students — Financial Aid Officer

Graduate Students — Financial Aid Officer

### **Scholarships and Grants**

New Students — Director of Admissions

Upperclassmen — Financial Aid Officer

Graduate Students — Dean of Graduate Study

### **Student Affairs and Services**

Undergraduate Students — Vice Chancellor for Student Affairs

Graduate Students — Dean of Graduate Study

### **Student Housing**

Director of Residence Halls

**Telephone:** Area Code 313 377-2000

# OAKLAND UNIVERSITY

GENERAL CATALOG

1970-1971

Rochester, Michigan

Oakland University affirms that an Assurance of Compliance with Title VI of the Civil Rights Act of 1964 has been executed and is fully applicable to the policies and practices of this University. Specifically, admission to the University or employment by the University is provided to qualified persons without discrimination on the ground of race, creed, color, or national origin.

All announcements in this catalog are subject to revision at the discretion of the University.

April, 1970

Volume XI, No. 1

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# UNIVERSITY CALENDAR

## 1970-1971

### Fall Semester

September 8, 9	Tuesday, Wednesday	Registration
September 10	Thursday	Classes begin
November 26-29	Thursday-Sunday	Thanksgiving recess
November 30	Monday	Classes resume
December 16	Wednesday	Classes end
December 17	Thursday	Final examinations begin
December 22	Tuesday	Final examinations end

### Winter Semester

January 4, 5	Monday, Tuesday	Registration
January 6	Wednesday	Classes begin
March 4-7	Thursday-Sunday	Winter recess
March 8	Monday	Classes resume
April 15	Thursday	Classes end
April 16	Friday	Final examinations begin
April 21	Wednesday	Final examinations end
April 24	Saturday	Commencement

### Spring Session

April 27	Tuesday	Registration
April 28	Wednesday	Classes begin
May 28	Friday	Holiday
June 17	Thursday	Classes end
June 18, 19	Friday, Saturday	Final examinations

### Summer Session

June 21	Monday	Registration
June 22	Tuesday	Classes begin
July 2	Friday	Holiday
August 11	Wednesday	Classes end
August 12, 13	Thursday, Friday	Final examinations

# UNIVERSITY CALENDAR

## 1971-1972

### Fall Semester

September 7, 8	Tuesday, Wednesday	Registration
September 9	Thursday	Classes begin
November 25-28	Thursday-Sunday	Thanksgiving recess
November 29	Monday	Classes resume
December 16	Thursday	Classes end
December 17	Friday	Final examinations begin
December 22	Wednesday	Final examinations end

### Winter Semester

January 3, 4	Monday, Tuesday	Registration
January 5	Wednesday	Classes begin
March 2-5	Thursday-Sunday	Winter recess
March 6	Monday	Classes resume
April 13	Thursday	Classes end
April 14	Friday	Final examinations begin
April 19	Wednesday	Final examinations end
April 22	Saturday	Commencement

### Spring Session

April 26	Wednesday	Registration
April 27	Thursday	Classes begin
May 30	Tuesday	Holiday
June 16	Friday	Classes end
June 19, 20	Monday, Tuesday	Final examinations

### Summer Session

June 21	Wednesday	Registration
June 22	Thursday	Classes begin
July 4	Tuesday	Holiday
August 11	Friday	Classes end
August 14, 15	Monday, Tuesday	Final examinations

This calendar is subject to revision.

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## BOARD OF TRUSTEES

Oakland University and Michigan State University operate under the jurisdiction of a constitutional body known as the Board of Trustees. The eight elected members serve eight-year terms. Two are elected biennially on partisan ballots from the state at large.

The President of Michigan State University and Oakland University is appointed by the Board and is by constitutional provision the presiding member of that body. The Board also appoints a secretary and a treasurer. Currently serving as trustees are:

The Honorable Frank Hartman  
The Honorable Warren M. Huff  
The Honorable Blanche Martin, D.D.S.  
The Honorable Frank Merriman, Vice Chairman  
The Honorable Stephen S. Nisbet  
The Honorable Don Stevens, Chairman  
The Honorable Kenneth W. Thompson  
The Honorable Clair White

Ex-officio members and officers of the Board:

Clifton R. Wharton, Jr., Presiding Officer  
Jack Breslin, Secretary  
Roger Wilkinson, Acting Treasurer

## ADMINISTRATION

Donald D. O'Dowd	Chancellor
Elmer B. Cooper	Assistant Chancellor for Urban Affairs
Troy F. Crowder	Director of University Relations and Assistant to the Chancellor
John H. DeCarlo	Assistant Chancellor for Professional Performing Arts
Thomas B. Dutton	Vice Chancellor for Student Affairs
Lowell R. Eklund	Dean of Continuing Education
Donald D. O'Dowd	Provost, Dean of Graduate Study, and Vice Chancellor
Herbert N. Stoutenburg, Jr.	Assistant Chancellor for Administration
Robert W. Swanson	Director of Business Affairs

## ACADEMIC ADMINISTRATION

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David C. Beardslee	Director of Institutional Research
Glen Brown	Director of Admissions and Scholarships
Robert H. Bunger	Assistant to the Provost
Jean C. Butler	Staff Writer

W. Royce Butler	University Librarian
B. F. Cheydleur	Director, Computing and Data Processing Center
Kenneth H. Coffman	Director of Psychological Services
James E. Davis	Assistant Provost
John E. Gibson	Dean, School of Engineering
Laszlo J. Hetenyi	Dean, School of Education
G. Philip Johnson	Acting Dean of Graduate Study
William H. Jones, Jr.	Assistant Dean of Graduate Study
Wilbur W. Kent	Associate Dean, School of Performing Arts
V. Everett Kinsey	Director, Institute of Biological Sciences
George T. Matthews	Dean, College of Arts and Sciences
Lewis N. Pino	Director of Research Services and Dean of the Summer School
Lowell C. Ruggles	Acting Registrar
Norton C. Seeber	Dean, School of Economics and Management
William F. Sturner	Assistant Provost

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Robert W. Swanson	Director of Business Affairs
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Lawrence K. Fitzpatrick	Director of Personnel
Ray T. Harris	Budget Director
David H. Jones	Purchasing Agent
Richard A. Light	Internal Auditor and Systems and Procedures Analyst
Robert J. McGarry	Controller
Dicron Tafraian	Grant and Contract Administrator

## STUDENT PERSONNEL ADMINISTRATION

Thomas B. Dutton	Vice Chancellor for Student Affairs
James R. Appleton	Dean for Student Life
Edward E. Birch	Assistant to Vice Chancellor for Student Affairs
Earl N. Gray	Director of Public Safety
Dorothy C. Hope	Director of Placement
Patricia M. Houtz	Associate Dean of Students
Hollie L. Lepley	Director of Physical Education and Athletics
Manuel H. Pierson	Associate Dean of Students and Director of Special Projects
Fred W. Smith	Assistant Dean of Students and Associate Dean for Student Affairs in the College of Arts and Sciences



# 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 Economics and Management, the School of Education, the School of Engineering, and the School of Performing Arts. The Summer School, in conjunction with the College of Arts and Sciences, the School of Education, the School of Performing Arts, and the Office of Graduate Study, offers credit courses at the undergraduate and graduate levels. 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. Four 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,

## OAKLAND UNIVERSITY

a pattern at once appropriate to their major and broadening as an intellectual experience. Or they may elect to join Allport College, Charter College, or New College. Each of these inner colleges offers its own characteristic and stimulating version of the general education component. This component, in any of its four 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, management, teacher education, or engineering.

All undergraduate programs in the College of Arts and Sciences lead to the degree of Bachelor of Arts. 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 pre-medical studies.

The newly formed School of Economics and Management offers a program in management leading to the degree of Bachelor of Science. This program is designed to prepare students for initial entry into many positions in business, government, and administration; alternatively, it may lead to entry into industry training programs or to graduate studies in management. The economics faculty of the School directs the liberal arts program in economics leading to the degree of Bachelor of Arts in the College of Arts and Sciences.

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 computer science; in materials engineering; in engineering management; 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. 192, 218, and 241 of this catalog and consult the Graduate Bulletin.

For further information on the programs of the School of Performing Arts, see pp. 243-47 of this catalog and consult the prospectus of the Academy of Dramatic Art. For further information on the programs of the Division of Continuing Education, see pp. 248-50 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 Michigan 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 Presi-

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dent 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 6,600 is projected for September, 1970. Initially housed in three buildings, the University now has twenty-one major buildings. 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 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 African, Asian, Chinese, Latin American, Slavic, and other area studies, in linguistics, in premedical studies, in elementary

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education, in social studies, in management, in teacher education generally, in certain fields of engineering, in many subject disciplines, and in various courses offered by the inner colleges, such stimulating cross-fertilization is taking place. Reciprocal enrichments of disciplines lending themselves to the 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.

Also characteristic of these forward-looking modes of learning are the University's diversified, optional, off-campus study programs. Six recent overseas study programs have given students the experience of in-depth learning in Mexico, Hong Kong, and several countries of western Europe. New College, moreover, requires of all its students a one-semester field term conducive to study of contemporary society at first hand through salaried or volunteer work in off-campus communities. Thirdly, the University extends to all students in good standing the option of individualized programs of independent off-campus study related to their academic courses.

The involvement of the University in the larger community is also identifiable in its programs, activities, and financial assistance designed to equalize educational opportunities. Students of the University volunteer, for example, through the Pontiac-Oakland Educational Assistance Team, to serve as tutors and friends for children of several elementary schools in Pontiac. During the summer months other projects offer help to pre-college students in the form of intensive academic skill development, cultural enrichment activities, orientation, and counseling. Through its new and expanding Urban Affairs program and through participation in the development of the Black Cultural Center in Pontiac the University is moving to diversify and to broaden its commitments to the community. In the inner city, the Detroit Teacher Internship Program, in which Oakland University is one of two participants, seeks to improve the academic achievement of elementary school children in this area by making available to the Detroit Public Schools a corps of well-trained liberal arts graduates as teacher interns.

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 educa-

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tion 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 nine 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 supported 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 music and drama in the School of Performing Arts. In 1965 summer music institutes in choral, vocal, orchestral, and chamber music were initiated for the professional musician. For five years these institutes successfully pioneered unique concepts in summer instruction. The School, now reformulating its program in music, will adapt the achievement of these institutes to new formats and new goals. In 1967 the Academy of Dramatic Art 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, its service activities, 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.

To mark its tenth anniversary, the University has initiated a year-long seminar on questions of appropriate ends and means for universities in our time as they respond to multiple pressures for change. From lectures, conferences, and courses addressed to these questions the University hopes to derive procedural modes, structural models, and relevant evaluations to guide and inform its own evolution and change during its second decade.

## 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 undergraduate program of the School of Engineering has been accredited by the Engineers' Council for Professional Development.

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

## **OAKLAND UNIVERSITY**

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

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

## **CENTRALIZED AND SPECIALIZED RESEARCH FACILITIES**

### **THE COMPUTING AND DATA PROCESSING CENTER**

The Computing and Data Processing Center is a centralized facility that supports research and educational 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 165,000 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, constitutes a major addition to library holdings and affords a substantial research facility for faculty and students. Among other special collections recently initiated is the Martin Luther King, Jr. Memorial Collection of materials related to black culture in America.

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 monographs, indexes, periodicals, and abstracts in this broad subject field; a general reference department; and the circulation department, which has an automated circulation system.

## OTHER CENTRALIZED AND SPECIALIZED RESEARCH FACILITIES

The research facilities of the University also include the extensive scientific laboratories of the Departments of Biological Sciences, Chemistry, and Physics, and of the School of Engineering; the Institute of Biological Sciences; the Instructional Materials Center; the Kettering Magnetics Laboratory; the Learning Strategy Center; the Office of Institutional Research; the University Instrument and Electronics Shops; and the University Reading Center.

## CAMPUS BUILDINGS

### **North Foundation Hall (1959)**

Gift of Mr. and Mrs. Alfred G. Wilson. Administrative offices; University services; classrooms; Office of the Dean, School of Economics and Management; faculty offices (Economics and Management, Political Science).

### **South Foundation Hall (1959)**

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

### **Oakland Center (1959)**

Self-liquidating funds. Student Activities Center; University Book Center; Scholar Shop; games room; coffee house; food services; meeting, banquet, and conference facilities; lounges; information desk; cleaners; barber shop.

### **Kresge Library (1961)**

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

### **John Hannah Hall of Science (1961)**

Funds appropriated by the State of Michigan. Classrooms; laboratories; Office of the Associate Dean, School of Performing Arts; faculty offices (Chemistry, Mathematics, Physics, Psychology).

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### **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; faculty offices (Academy of Dramatic Art, Art, English Language and Literature, History, Modern Languages and Literatures, Philosophy).

### **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 Research Services; Office of the Dean, School of Engineering; Office of the Dean, School of Education; Office of the Dean, Summer School; faculty offices (Allport College, Biological Sciences, Classical Languages and Literatures, Education, Engineering, Speech).

### **Graham Health Center (1968)**

Self-liquidating funds. Health offices and services; Office of the Dean, College of Arts and Sciences; Office of the Dean of Freshmen; Advising and Orientation Offices; Office of the Director of Special Projects.

### **New Classroom-Office Building**

(To be opened September, 1970.)

Funds appropriated by the State of Michigan and a federal grant.

**Meadow Brook Hall**

Gift of Mr. and Mrs. Alfred G. 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. Faculty offices (Sociology and Anthropology).

**Van Wagoner Hall (1965)**

Self-liquidating funds.

**Vandenberg Hall (1966)**

Self-liquidating funds. Classrooms; faculty offices (Charter College, New College).

**Hamlin Hall (1968)**

Self-liquidating funds. Classrooms.

# 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 teacher education and premedical studies. For further information, consult pp. 35-192 of this catalog.

The School of Economics and Management offers a program in management leading to the degree of Bachelor of Science. The economics faculty of the School directs the liberal arts program in economics leading to the degree of Bachelor of Arts in the College of Arts and Sciences. For further information, consult pp. 194-205 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. 228-42 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. 192 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. 192 and 218 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 ele-

## **UNIVERSITY CURRICULA**

mentary education and reading instruction. For further information, consult p. 218 of this catalog and the Graduate Bulletin.

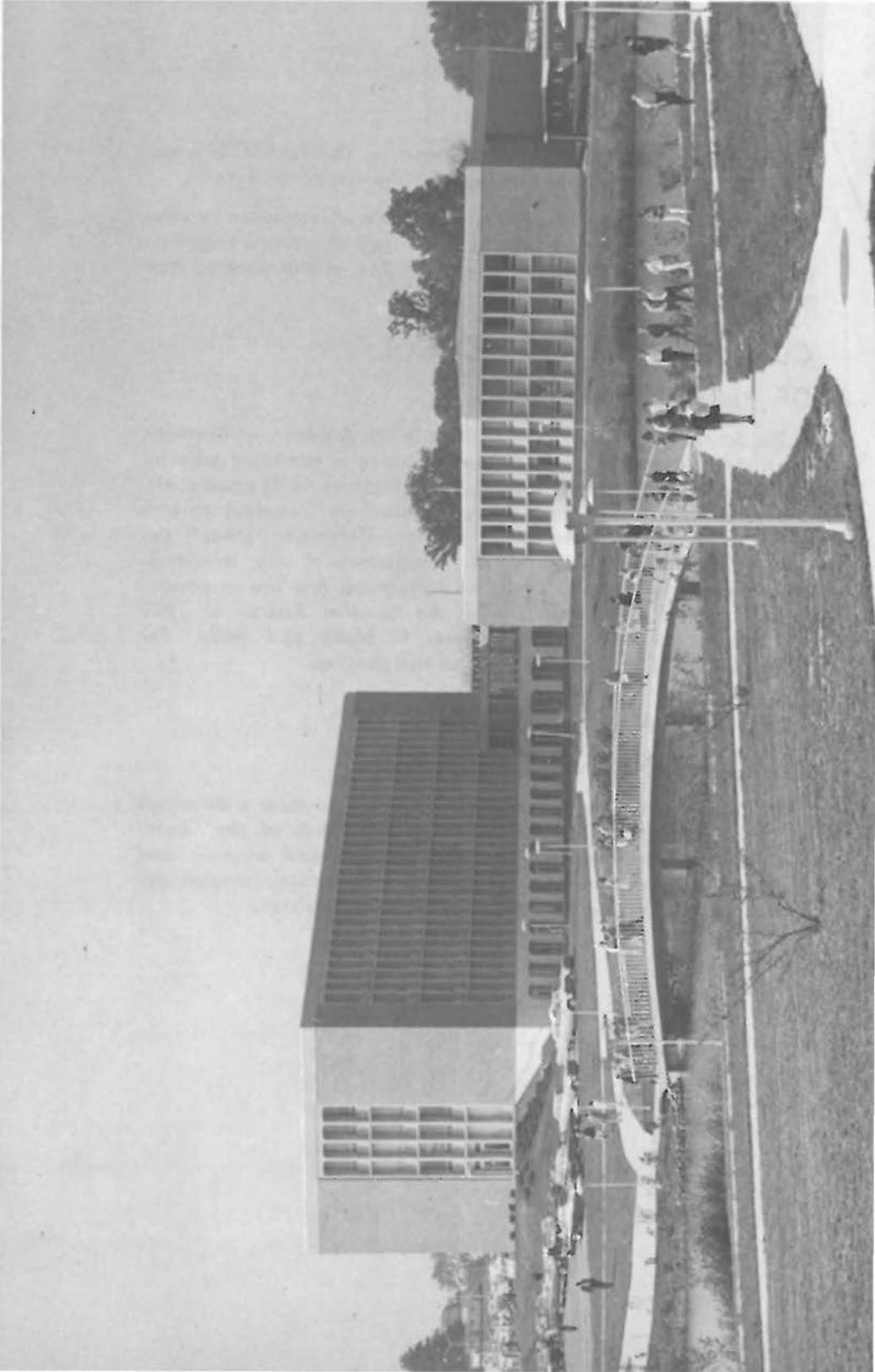
The School of Engineering offers a program of instruction leading to the degree of Master of Science in the field of systems engineering. For further information, consult p. 241 of this catalog and the Graduate Bulletin.

## **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 Dramatic Art. The curriculum is designed solely for students intending careers in the professional theatre. For further information, consult pp. 246-47 of this catalog and the prospectus of the Academy. Programs in music in the School of Performing Arts are at present in a phase of transition. During the Summer Session of 1970 the School will offer master classes in piano and violin. For further information, consult p. 245 of this catalog.

## **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. 248-50 of this catalog and the catalog of the Division.



# COLLEGE OF ARTS AND SCIENCES

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B.A., Cornell University; M.A., University of Michigan
- PAUL A. TIPLER Associate Professor of Physics  
B.S., Purdue University; M.S., University of Illinois;  
Ph.D., University of Illinois
- PAUL TOMBOULIAN Professor of Chemistry  
Chairman, Department of Chemistry  
A.B., Cornell University; Ph.D., University of Illinois
- REUBEN TORCH Professor of Biological Sciences  
Associate Dean, College of Arts and Sciences  
B.S., University of Illinois; M.S., University of Illinois;  
Ph.D., University of Illinois
- IRVING TORGOFF Associate Professor of Psychology  
B.S., City College of New York; Ph.D., University of Rochester
- JOHN E. TOWER Assistant Professor of Economics and Management  
(Faculty of Economics-Management)  
B.S.E., University of Michigan; M.B.A., University of Michigan;  
Ph.D., State University of New York at Buffalo
- ANNE H. TRIPP Assistant Professor of History  
A.B., Wheaton College; M.A., University of Michigan;  
Ph.D., University of Michigan
- RICHARD P. TUCKER Assistant Professor of History  
A.B., Oberlin College; A.M., Harvard University;  
Ph.D., Harvard University
- NALIN J. UNAKAR Associate Professor of Biological Sciences  
B.Sc., Samaldas College (India); M.Sc., University of Bombay;  
Ph.D., Brown University
- CARMEN M. URLA Special Instructor in Spanish  
Bachillerato, Institute Lope de Vega, Madrid;  
M.A., University of Illinois
- KIICHI USUI Assistant Professor of Art  
Art Gallery Curator  
B.F.A., University of Tokyo
- ANTHONY L. VAN GEET Associate Professor of Chemistry  
B.S., Delft Institute of Technology;  
Ph.D., University of Southern California

## ARTS AND SCIENCES

- CARL R. VANN Associate Professor of Political Science  
A.B., Syracuse University; Chairman, Allport College  
M.A., Syracuse University; Ph.D., Syracuse University
- LUIS A. VARGAS Assistant Professor of Spanish  
B.A., St. George's College, Santiago, Chile;  
M.A., Universidad de Chile;  
Ph.D., Universidad Central, Madrid, Spain
- MARILYN Z. VELINSKY Instructor in Physics  
B.S., Indiana State University; M.S., Michigan State University
- CHERRYL A. WAGNER Assistant Professor of Classics  
B.A., University of Montana; M.A., University of Washington;  
Ph.D., University of Illinois
- JULIAN WEITZENFELD Instructor in Philosophy  
B.A., Brandeis University; M.A., University of Chicago
- JAMES R. WELLS Lecturer in Biological Sciences  
B.S., University of Tennessee; M.S., University of Tennessee;  
Ph.D., Ohio State University
- GERTRUDE M. WHITE Professor of English  
B.A., Mt. Holyoke College; M.A., Columbia University;  
Ph.D., University of Chicago
- ARTHUR W. WILD Instructor in Political Science  
B.S., United States Military Academy; M.A., University of Washington
- MARILYN L. WILLIAMSON Associate Professor of English  
B.A., Vassar College; M.A., University of Wisconsin;  
Ph.D., Duke University
- ROBERT M. WILLIAMSON Professor of Physics  
B.S., University of Florida; Ph.D., University of Wisconsin
- WALTER L. WILSON Professor of Biological Sciences  
B.S., West Chester State College; Ph.D., University of Pennsylvania
- CALEB R. WOODHOUSE Assistant Professor of History  
A.B., Brown University; M.A., University of California (Berkeley);  
Ph.D., University of California (Berkeley)
- YEL CHIANG WU Assistant Professor of Mathematics  
Diploma, Hong Kong Baptist College; M.S., University of Ottawa;  
Ph.D., Cornell University

## ARTS AND SCIENCES

**THEODORE O. YNTEMA** Visiting Professor of Economics  
and Management (Faculty of Economics-Management)  
A.M., University of Illinois; A.M., University of Chicago;  
Ph.D., University of Chicago

**KENNETH C. YOUNG** Assistant Professor of Economics  
and Management (Faculty of Economics-Management)  
B.A., Carson-Newman College; M.B.A., Harvard University;  
M.S., Purdue University; Ph.D., Purdue University

## STANDING COMMITTEES OF THE COLLEGE OF ARTS AND SCIENCES

### Executive Committee

George T. Matthews, Chairman  
Peter J. Bertocci  
Harvey Burdick  
Melvin Chernov

Renate S. Gerulaitis  
David W. Mascitelli  
James H. McKay  
Gertrude M. White

The Committee meets regularly during the Fall and Winter Semesters on Tuesdays from three to five p.m. in the Office of the Dean, Graham Health Center.

### Committee on Academic Advising

Fred W. Smith, Chairman  
(ex officio)

Harvey J. Arnold  
P. Michael Brakke  
Robert C. Howes

Doreen Abraham (student member)  
Laurence Blank (student member)  
Steven Jakob (student member)  
Anne Marie Wagner (student member)

The Committee meets regularly during the Fall and Winter Semesters on Wednesdays from three to four-thirty p.m. in 126 Oakland Center.

### Committee on Instruction

Robert E. Simmons, Chairman  
George T. Matthews (ex officio)  
Lowell C. Ruggles (ex officio)  
Peter G. Evarts

Robert I. Facko  
Joel W. Russell  
Carl R. Vann

The Committee meets regularly during the Fall and Winter Semesters on Thursdays from three to five p.m. in the Office of the Dean, Graham Health Center.

**Committee on Student Affairs**

**Elections Committee**

Thomas W. Casstevens, Chairman  
David W. Mascitelli

Joel W. Russell

**STANDING COMMITTEE OF THE  
FACULTY OF ARTS AND SCIENCES**

**Committee on Appointments and Promotions**

George T. Matthews, Chairman  
Charles W. Akers  
John C. Galloway  
Robert C. Howes

G. Philip Johnson  
Robert E. Simmons  
Norman Susskind

The Committee meets periodically during the Fall and Winter Semesters in the Office of the Dean, Graham Health Center.

**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.
  - B. Have completed at least 32 of these credits at Oakland University, of which at least 16 credits must be in his or her 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.)

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### 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 Allport College, 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). (Allport College, Charter College, or New College equivalents are accepted in lieu of the University Courses in political or social science.) (For further details concerning the general education requirements, see pp. 37-53.)

### 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 or her elected major. (For further detail concerning the language requirement, see pp. 53-54.)

### 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. 54-57 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

\*The language requirement is under study and is subject to revision. For information consult the Advising Office, the Admissions Office, the Registrar, or departmental advisers.

**I. General Education**

(See also paragraph II of the General Degree Requirements.) There are four 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 Allport College, by enrollment in Charter College, or by enrollment in New College.

**A. THE UNIVERSITY COURSE PROGRAM**

The University Course Program is designed to assure 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 Science 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 or she has transferred equivalent credits from another institution (usually freshmen English composition), should take one and only one Freshman Exploratory (UC 01A-F) in each of his or her first two semesters, chosen from the following groups (no two may be chosen from the same group): Literature,

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Western History and Philosophy, Fine Arts, Man and Contemporary Society, Area Studies, and Science and Mathematics. Any student who has not satisfactorily completed two Exploratories in his or her 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 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 (anthropology, economics, political science, psychology, sociology); and of the natural sciences and mathematics. In addition the Distribution Requirements prescribe study of at least one area studies course (Africa, China, India, or Latin America). 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, and physics; secondary teaching majors in mathematics and music; and all secondary teaching majors with minors in either history or 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. 40-44 and for those with departmental titles (e.g., ENG 105) 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 105, ENG 111, ENG 140, or any course in 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, or PS 272. Scheduling of these courses depends

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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 by choosing one course in each of two different disciplines. Students may satisfy this Distribution Requirement by choosing two courses, each from a different group, as follows: UC 052 (Introduction to American Politics) or PS 131 (Foreign Political Systems); UC 054 (Introduction to Social Psychology) or PSY 146 (Foundations of Contemporary Psychology); UC 056 (Introduction to Economics); UC 058 (Introduction to Sociology) or AN 102 (Man in Culture and Society).

(e) Area Studies (4 credits)

Some Distribution Requirements concentrate on the fundamental principles, historical development, and major achievements of European and North American civilization. Others emphasize the processes by which the modern world functions. Courses in area studies complement these courses by turning the student's attention to other major civilizations, African, Chinese, Indian, and Latin American, that differ substantially from European and North American civilization and are making their own unique contributions to the modern world. Accordingly, all students must complete 4 credits in one of the following area studies courses: UC 062 (China), UC 064 (Africa), UC 066 (India), or UC 068 (Latin America). Completion of one Freshman Exploratory is a prerequisite for admission to these courses.

(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,

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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. 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 Professor James Davis of the Department of Chemistry. Emphasizing discussion, reading, research, and writing, the Colloquia deal with significant cross-disciplinary issues of broad import.

## 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 or her 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. 38). 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. 278) 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 or her 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

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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 anthropology, economics, political science, psychology, and sociology.

### **UC 01E Area Studies**

An exploration of selected problems, ideas, issues, or topics in African, Chinese, Indian, or Latin American 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. 38-40.

### 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

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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.

### **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 management 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.

## AREA STUDIES

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

A study of the traditional civilization and modern development of China. Topics include history, philosophy and religion, literature and the arts, government, and social organization. Enrollment limited to those who have completed at least one Freshman Exploratory.

### **UC 064 Introduction to Africa**

An introduction to the geography and ecology of Africa and the history and cultures of African peoples. Attention will be directed also to social organization; economic, political, and religious systems; and problems of social change. Enrollment limited to those who have completed at least one Freshman Exploratory.

**UC 066 Introduction to India**

A study of the traditional civilization and modern development of the Indian sub-continent. Topics include philosophy and religion, literature and the arts, history, political structure, and social organization. Enrollment limited to those who have completed at least one Freshman Exploratory.

**UC 068 Introduction to Latin America**

A study of the traditional and modern forces in Latin America, the cultures of Indian, European, and African peoples, and a survey of contemporary social and political problems of the area. Enrollment limited to those who have completed at least one Freshman Exploratory.

## 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 121-122, 125, 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.

**UC 086**

Selected topics in modern biology. The course will involve a discussion of the nature of living things at various levels of biological organization from molecules to man. Examples will be drawn from the following topics—molecular biology, reproduction, inheritance, embryonic development, structure and function of the adult organism, evolution, the relationship of the organism to the environment, and the potential danger of man's influence on the environment.

**UC 087 and UC 088**

These courses will deal with selected topics which emphasize the ramifications of the effects of science and technology on man and his environment.

**UC 089**

Selected topics in physics and/or astronomy chosen to illustrate the aims, development, and limitations of science. This course is especially designed for, and open only to, non-science majors. High school algebra is a prerequisite.

**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 or her 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

## ARTS AND SCIENCES

departmental fields, students who have majored in that department will be excluded from that section. Such exclusions will be indicated by the instructor in the course description which should be available before registration for each semester.

### **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 Area Studies**

Studies of current problems in Africa, India, China, or Latin America and of the relations between these areas and North America and Europe 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. ALLPORT COLLEGE PROGRAM**

Carl R. Vann (Political Science), Chairman

Allport College is an inner college program founded in 1969 with the goal of providing, throughout the undergraduate years, both close student-faculty contact and collateral program affiliations, courses, and activities.

Behavioral sciences and their interrelationships with the sciences and humanities are central to the program of Allport College. The Allport curriculum will focus on the study of two major aspects of the behavioral sciences: analysis of the basic facts of human behavior, individual and social, and the application of these facts in areas such as education, mental health, administration, communications, and the problems of emerging countries.

The Allport behavioral science program is not designed to be a major in itself but is to be a concomitant of a departmental major. The College will attempt to use various disciplines to relate: culture and personality; language, culture, and behavior;

## ARTS AND SCIENCES

various modes of institutional behavior (e.g., political, bureaucratic, family, community, national, and international); science and technology and their impact on the human organism and organization; mathematics and statistics as logical systems and their interconnections with the institutional and scientific enterprises.

The students enrolled in the Allport College program will be expected to meet all the regular academic requirements of the College of Arts and Sciences (see pp. 35-36), but they will be able to fulfill many of these requirements by taking courses especially planned and taught by the Allport College faculty. In the freshman year each student will be required to enroll in a two-semester Introduction to Behavioral Sciences course (AC 101-102) and in freshman Preceptorial courses (AC 103, 104) given by Allport College faculty members on topics relating to the behavioral sciences.

Sophomore students will take a University Course under the direction of the College but with the cooperation of the departments. The College anticipates that when these courses are offered they will be developed in close relationship to a program of guest scholars. These scholars will visit the campus for periods of several days during which they will have extensive contacts with students and faculty.

The Allport College experience in the junior year will be a directed research project or other form of off-campus study. These programs are currently in the process of planning and development. In the senior year a Colloquium course will be offered. This course will be given by a member of the College faculty with whom the student did not study in either of his freshman Preceptorials.

### **Distinctive Features of the Allport College Program**

This academic program is especially designed to provide the students with an experience relevant to the contemporary world.

The use of small classes and tutorial experiences is coupled with large-group activities. Among the group events envisaged are traditional activities such as lectures and debates, as well as somewhat unusual artistic and cultural demonstrations and participatory activities. These "salon seminars" will be jointly organized by the students and faculty of the College with students and faculty from other segments of the University and with members of the outside community. The seminars will also be extended

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over a period of time to include experiences with persons from other countries, as well as with the literature and cultural patterns of many areas.

Students will participate fully at all levels in the planning and execution of the curriculum.

Students in the College will be afforded opportunities for off-campus applied research.

Upon completion of the Introduction to Behavioral Sciences (AC 101-102), students of the College may, with the cooperation of the academic departments involved, proceed directly to advanced course work.

All incoming first year students may apply for admission to Allport College. Students planning on majors with specially detailed requirements should consult with their advisers; the College is willing to discuss adjustments. Decisions on admission will be made prior to the Fall Semester. Enrollment is limited to one hundred students.

### COURSE OFFERINGS

#### **AC 101-102 Introduction to Behavioral Sciences (4 credits each)**

An introduction to the methods, data, and insights of the behavioral sciences with emphasis on anthropological, sociological, psychological, ethological, and political research. The implications and relevance of these basic and applied studies for the behavior of individuals, groups, and nations are examined. (This is a two-semester course. It is required of all students in Allport College and meets the social sciences Distribution Requirement. AC 101-102 is also open to any student at Oakland University on an elective basis.)

#### **AC 103, 104 Preceptorial (4 credits each)**

Students in Allport College meet the freshman writing requirement through these courses. Preceptorial sections are taught on a seminar-discussion basis, and students are required to choose preceptorials taught by persons representing two different disciplines.

#### **AC 499 Senior Colloquium (4 credits)**

### **D. CHARTER COLLEGE PROGRAM**

Alfred Lessing (Philosophy), Chairman  
Sheldon L. Appleton (Political Science)  
Edward A. Bantel (Education and Psychology)  
Dolores M. Burdick (French Language and Literature)  
Phebe Chao (English Language and Literature)

## ARTS AND SCIENCES

Robert I. Facko (Music)  
Robert C. Howes (History)  
Judith Koucky (History)

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 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 or her time and energies as—and sometimes more than—equivalent general education courses and programs in the College of Arts and Sciences. 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 semesters 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

## **ARTS AND SCIENCES**

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. The student's instructor in his first Charter College seminar will also serve as his academic adviser during his freshman year. Students receiving failing ("U" or 0.0) grades 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 courses 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 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 field(s). 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 Charter College extracurricular programs and to serve on faculty-student 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

## ARTS AND SCIENCES

in the College. Graded satisfactory or unsatisfactory. (Transcript designations for the seminars are: CC 001A, CC 001B, CC 001C, CC 001D, CC 001E, and C 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. 40-41.)

### **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. (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. 41-43.)

### **Charter College Discussions**

Upper-class discussions are offered on subjects chosen by the instructor and are open to Charter College students who have satisfactorily 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. (Transcript designations for these discussions are: CC 200A, CC 200B, CC 200C, CC 200D, CC 200E, CC 200F and CC 300A, CC 300B, CC 300C, CC 300D, CC 300E, CC 300F. 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. 41-43.)

### **Charter College Senior Colloquia**

Senior Colloquia are normally limited to twenty students with senior standing. Students must have the permission of the instructor to enroll and may not enroll more than once for credit except by special permission of the faculty chairman. Subject matter of the Colloquia should be outside the students' major field(s). 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 groupings used in the University Course Program for the Senior Colloquia to which these Colloquia are equivalent. See pp. 43-44.)

## **ARTS AND SCIENCES**

### **Charter College Independent Study**

Charter College Independent Study courses are open to students who have satisfactorily completed six Charter College courses. Specific programs for independent study must be submitted at least one month prior to enrollment, for approval by the Faculty-Student Committee on Independent Study, and must have the support of an Oakland University faculty member willing to serve as adviser for the course. Students may enroll in one or more 2- or 4-credit units of this course (CC 400), which must involve study outside of the students' major field(s).

### **Charter College Honors Program**

Charter College honors courses are normally open to students who have satisfactorily completed six Charter College courses, have maintained at least a 3.0 cumulative grade point average at Oakland, and have obtained specific recommendations from two Charter College instructors. Under this program students are free to engage in whatever type of educational experience they believe will contribute most to their own personal development, on or off campus, in the United States or abroad. Students may enroll in these courses (CC 400H) for 12 or 16 credits and are subject to restrictions on their employment during the semester in which they are enrolled. In addition, they will be required to file monthly reports and a terminal written report on their experiences with their Charter College honors course adviser. Graded satisfactory or unsatisfactory.

## **E. NEW COLLEGE PROGRAM**

Chairman: Melvin Chernoff, 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, the study of society and in the third, the natural and behavioral sciences. 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. 37-44.) A

## ARTS AND SCIENCES

student enrolled in New College must satisfy the language requirement appropriate to his major. (See pp. 53-54.)

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 management or the degree of Bachelor of Arts in 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. A student in any of 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 participate to a limited extent in planning these courses.

The freshman program consists of a two-semester course in intellectual and cultural history (NC 101, 102, 6 credits per term), and a two-semester Arts Workshop (NC 111, 112, 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, Twentieth Century World Civilization (NC 103), 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 (NC 201, 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 (NC 202), 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.

## ARTS AND SCIENCES

Juniors will take two one-semester courses in science (NC 301, 302, 4 credits each term), investigating its methods and significance through an examination of several fundamental problems. Materials will be chosen from the physical and biological sciences as well as from the behavioral sciences.

A number of options will be available for seniors, any one of which is required: an interdisciplinary seminar (NC 400), a project in a broad area outside the student's major field (NC 401), an oral examination (NC 402), and apprentice teaching in the College for selected students (NC 403).

Although any incoming freshman may apply for admission to New College, no more than one hundred students will be accepted in any academic year. 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. Required of all New College students. Sequence offered annually.

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

A continuation of the freshman course, concentrating on twentieth century developments and having particular reference to the interactions between Western and non-Western cultures. Required of all New College students. Offered in the Fall Semester.

### **NC 111, 112      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 music, theatre, or dance. Required of all New College students. Sequence offered annually.

### **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. Required of all New College students. Offered in the Fall and Winter Semesters.

### **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 of NC 201. Required of all New College students. Offered in the Fall and Winter Semesters.

## ARTS AND SCIENCES

**NC 211 Mime (2 credits)**

An active examination of the techniques and styles of classical mime, dealing specifically with the spiritual preparation for mime and the practice of mask-making. Not a required course. Offered occasionally.

**NC 212 Contemporary Dance (2 credits)**

The emphasis in this course will be on learning modern dance and ballet techniques and developing these techniques into dance studies utilizing rhythm, space, and energy. Not a required course. Offered occasionally.

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

Introduction to the procedures and conclusions of contemporary American scientists. Each course will be a self-contained unit and will present a particular problem or field. Instructors for NC 301 will generally be drawn from the behavioral sciences; those for NC 302 from the natural sciences. Required of all New College students except elementary education majors and those students majoring in science departments or engineering. One or the other will be offered each semester.

**NC 400 Senior Seminar (4 credits)**

Discussion of a topic of general interest. Satisfies the senior requirement in the College. Offered in the Winter Semester.

**NC 401 Independent Project (4 credits)**

A research project on a topic of general interest outside the student's major field. Satisfies the senior requirement in the College. Offered in the Winter Semester.

**NC 402 Oral Examination (4 credits)**

An examination on a booklist of general interest to be read during the previous term. (Arrangements must consequently be made a semester in advance.) Satisfies the senior requirement in the College. Offered in the Winter Semester.

**NC 403 Apprentice Teaching (4 credits)**

Apprentice teaching in the College designed for students who plan to teach in colleges. New College approval is required at least a semester in advance. Satisfies the senior requirement in the College. Offered in the Winter Semester.

## 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 or she must have demonstrated that level of facility in a foreign language (or authorized equivalent) required by the major which he or she elects.

A. In the liberal arts majors offered by the Departments of Art, Classical Languages and Literatures, English Language and Literature, History, Mathematics, Modern Languages and Literatures,

\*The language requirement is under study and is subject to revision. For information consult the Advising Office, the Admissions Office, the Registrar, or departmental advisers.

## ARTS AND SCIENCES

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 Biological Sciences, Chemistry, Economics, 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 preprofessional major of teacher education (both secondary and elementary) the requirement is the same as in "B" above.

D. Students in the majors listed in "B" and "C" above may, with departmental consent, satisfy the foreign language requirement by completing the two-semester sequence in linguistics, LIN 176 and LIN 177.

For further information concerning foreign languages, see pp. 120-37. For further information concerning linguistics, see pp. 182-87.

### 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.):

## ARTS AND SCIENCES

- |                                       |   |
|---------------------------------------|---|
| 1. Art History                        | 15. Spanish                                   |
| 2. Studio Art                         | 16. Latin American Languages and Civilization |
| 3. Biology                            | 17. Music Theory and Composition              |
| 4. Chemistry                          | 18. Music History and Literature              |
| 5. Classical Languages                | 19. Philosophy                                |
| 6. Latin                              | 20. Physics                                   |
| 7. Economics                          | 21. Political Science                         |
| 8. English                            | 22. Psychology                                |
| 9. History                            | 23. Sociology                                 |
| 10. Mathematics                       | 24. Anthropology                              |
| 11. Chinese Language and Civilization | 25. Sociology and Anthropology                |
| 12. French                            |   |
| 13. German                            |   |
| 14. Russian                           |   |

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. 212 of the section of this catalog devoted to the School of Education.)

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

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. Consequently, 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. 212 of the section of this catalog devoted to the School of Education.)

- |                        |                                     |
|------------------------|-------------------------------------|
| 1. Art                 | 6. Mathematics                      |
| 2. Biological Sciences | 7. Modern Languages and Literatures |
| 3. Chemistry           | 8. Physics                          |
| 4. English Language    |                                     |

## ARTS AND SCIENCES

- |                |                    |
|----------------|--------------------|
| and Literature | 9. Social Sciences |
| 5. History     | 10. Science        |

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 pp. 187-88.)

E. The College offers an interdisciplinary major in elementary education under the Committee on Elementary Education. (For further information, see pp. 212-16 of the section of this catalog devoted to the School of Education.)

F. 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. 178-79.)
2. Linguistics (See pp. 182-87.)
3. Premedical Studies (See p. 187.)
4. Slavic Studies (See pp. 180-82.)
5. South Asian Studies (See pp. 179-80.)

G. The College of Arts and Sciences through several departments and through New College offers various programs for off-campus study. (See pp. 189-90.)

H. The College offers limited work in speech (p. 191) and in geography. (See p. 190.)

I. The College offers work in science for elementary education majors. (See p. 191.)

## 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 at 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 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.

## ARTS AND SCIENCES

### 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:	Donald H. Dwyer (Art History) Ralph F. Glenn (Art History) Kiichi Usui (Art; Gallery Curator)
Instructors:	P. Michael Brakke (Art) Charles E. Brownell, Jr. (Art History) Victoria Kay Thorson (Art History)
Lecturer:	Morris Brose (Art)

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 may be required to pass an oral examination, typically during the seventh semester,

## ARTS AND SCIENCES

on a topic agreed upon between the student and the Department. This examination may be incorporated within ART 480, ART 490, or ART 491.

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.

The Department of Art offers programs of study leading to the degree of Bachelor of Arts with majors in history of art and in studio art. Students intending to major in art are strongly advised to enroll in the College of Arts and Sciences program, rather than in any other college program, at the beginning of their freshman year at Oakland University.

The Department of Art also offers a secondary teaching minor. (The secondary teaching major is not offered in art.)

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

UC 047 (Introduction to Art) and ten departmental courses in art, including one in studio art, are required, making a total of 44 credits. (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 eight groups of periods, styles, or subjects:

- A. Primitive; African; Precolumbian; Oceanic
- B. Ancient Near East; Greek and Roman; Oriental
- C. Medieval; Byzantine
- D. Renaissance: Northern Renaissance
- E. Seventeenth Century; Eighteenth Century
- F. Nineteenth Century; Twentieth Century; Modern Architecture.
- G. American; German; English
- H. Seminar in Art History (ART 480);  
Special Problems in Art History (ART 491)

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 history majors are required to take two semesters of a second foreign language in addition to the usual four-semester University Course sequence. The preferred languages are French and German.

## ARTS AND SCIENCES

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

UC 047 (Introduction to Art) and eleven courses in art (making a total of 48 credits) are required, three of which must be in art history and eight in studio arts. 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). Of the three requisite art history courses, ART 381 (Twentieth Century Painting and Sculpture) must be taken first and must be completed before students may take ART 226, except that, with permission of the Department of Art, students may take ART 226 concurrently with ART 381. (Since enrollment in ART 226 is limited, preference will be given to students who have completed ART 381.) 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. Therefore, at least one course must be taken in each of the following areas:

- A. Painting
- B. Printmaking
- C. Sculpture

ART 490 (Special Problems in Studio Art) is required of all studio art majors.

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, making a total of 20 credits. 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

**Semester 2**  
Freshman Exploratory

## ARTS AND SCIENCES

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

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 or Art

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

\*\*Art history majors are required, and studio art majors may be required, to complete two semesters of a second foreign language beyond the four-semester University language requirement. (See note marked \* above.)

## **ART 147 Introduction to History and Analysis of Art (4 credits)**

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. Prerequisite: Permission of the Department of Art.

## **ART 226 Introduction to Studio Art (4 credits)**

A study of the fundamentals of drawing, painting, and other two-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 who have completed UC 047 may, with permission of the Department of Art, take ART 226 concurrently with completing ART 381, the first of the three requisite art history courses. 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. Since enrollment in ART 226 is limited, preference will be given to art majors who have completed ART 381.

## **ART 236 Drawing (4 credits)**

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

Prerequisites: Same as for ART 226.

## **ART 326 Painting (4 credits)**

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

## ARTS AND SCIENCES

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

### **ART 327 Printmaking (4 credits)**

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

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

### **ART 328 Sculpture (4 credits)**

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 (4 credits)**

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 (4 credits)**

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 (4 credits)**

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 (4 credits)**

The major artistic styles of the regions of tribal peoples. Relationships between primitive art and modern Western art are considered.

Prerequisite: UC 047 or ART 147.

### **ART 361 Medieval Architecture and Sculpture (4 credits)**

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 (4 credits)**

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 problems in the history of Renaissance art such as humanism, the classical revival, and perspective.

Prerequisite: UC 047 or ART 147.

### **ART 370 Northern Renaissance Art (4 credits)**

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 371 English Art (4 credits)**

Architecture, painting, and sculpture in England from the Renaissance in the reign

## ARTS AND SCIENCES

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 (4 credits)**

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 380 Nineteenth Century Art (4 credits)**

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 Painting and Sculpture (4 credits)**

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, De Stijl, Abstract Expressionism, Pop, Op, Minimal, and Environmental arts. Required of secondary teaching minors in art and majors in studio art.

Prerequisite: UC 047 or ART 147.

### **ART 383 Modern Architecture (4 credits)**

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 (4 credits)**

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

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

### **ART 395 Cinematography (4 credits)**

A studio course in the basic techniques of film-making. Students will complete short films. Emphasis will be laid on space, time, motion, color, and rhythm as the cinematic elements central to the expression of an idea.

Prerequisites: UC 047, ART 226, ART 381, and ART 390, and/or permission of the Department of Art.

### **ART 400 Oriental Art (4 credits)**

The stylistic development of the arts of India, China, and Japan, and their correspondence to the visual art forms of other Asiatic countries.

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

### **ART 425 The Art of Japan (4 credits)**

A study of the major aspects of Japanese sculpture, painting, and the decorative arts from the fifth to the nineteenth century.

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



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### **ART 465 Byzantine Art (4 credits)**

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 of Art.

### **ART 473 Art of the Eighteenth Century (4 credits)**

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.

Prerequisites: UC 047 or ART 147.

### **ART 480 Seminar in Art History (4 or 8 credits)**

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 studio art majors. With permission of the Department of Art, may be taken for eight credits.

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

### **ART 490 Special Problems in Studio Art (4 or 8 credits)**

Individually assigned projects in painting, printmaking, or sculpture. This course is required of all majors in studio art. With permission of the Department of Art, may be taken for eight credits.

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

### **ART 491 Special Problems in Art History (4 or 8 credits)**

A program of individually assigned research problems, designed for the advanced major in art. This course or ART 480 is required of all majors in art history. With permission of the Department of Art, may be taken for eight credits.

Prerequisites: Major standing in art and completion of three courses in art history, and/or permission of the Department of Art.

## ARTS AND SCIENCES

### DEPARTMENT OF BIOLOGICAL SCIENCES

Professors:	Clifford V. Harding, Chairman William C. Forbes V. Everett Kinsey V. N. Reddy Reuben Torch Walter L. Wilson
Associate Professors:	Francis M. Butterworth Moon J. Pak Michael V. Riley Nalin J. Unakar
Assistant Professors:	Madison B. Cole, Jr. John D. Cowlshaw John Reddan Arun K. Roy
Assistant Instructor:	Thomas Rodeheffer
Lecturers:	Philip T. Clampitt James R. Wells

The Department of Biological Sciences offers programs of study leading to the degree of Bachelor of Arts. 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.

Biology majors may complete their general education requirement in the University Course Program or in Allport College, Charter College, or New College, but it is important that they should consult in advance with a departmental adviser and the head of their chosen college in order to avoid class scheduling problems.

It should be noted that the University Course Program has been modified for the Department of Biological Sciences 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.

## ARTS AND SCIENCES

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, 15 credits in chemistry, 10 credits in physics, and 8 credits in mathematics (MTH 154-155 or MTH 121-122) are required. For details on the language requirement for this major, see pp. 53-54 of this catalog.

Admission to major standing requires 15 credits in biology plus 8 credits in any combination of the required courses in mathematics, physics, and chemistry.

### Requirements for the Secondary Teaching Major in Biology

Thirty-five credits in biology are required. Minors in chemistry or physics, or a group minor in chemistry and physics (as listed under Requirements for the Teaching Minor in Science, p. 191) are recommended. Additional requirements include 8 credits in mathematics and the following education courses: ED 244, 245, ED 428, and ED 455. For details on the language requirement for this major, see pp. 53-54 of this catalog.

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 Biological Sciences and concurrent acceptance into the School of Education.

### Requirements for the Secondary Teaching Minor in Biology

Twenty credits in biology are required. Courses used to satisfy this requirement must be numbered BIO 111 or above.

### Liberal Arts Major in Biology

(A Typical Program)

#### Semester 1

Freshman Exploratory  
BIO 111, 112

#### Semester 2

Freshman Exploratory  
BIO 113, 114

## ARTS AND SCIENCES

CHM 104, 107

### Semester 3

Elective

BIO Lecture & Lab

MTH 154 (or 121)<sup>2</sup>

CHM 204, 207

### Semester 5

PHY 151 (or 101)<sup>2</sup>

BIO Lecture & Lab

Foreign Language<sup>3</sup>

Distribution Requirement

### Semester 7

BIO Lecture & Lab

Senior Colloquium

Elective

CHM 203, 206

(MTH 134)<sup>1</sup>

### Semester 4

Distribution Requirement

BIO Lecture & Lab

MTH 155 (or 122)<sup>2</sup>

CHM 205, 208

### Semester 6

PHY 152, 158 (or 102, 158)<sup>2</sup>

BIO Lecture & Lab

Foreign Language<sup>3</sup>

### Semester 8

BIO Lecture & Lab

Distribution Requirement

Elective

Elective

<sup>1</sup>A mathematics aptitude examination is given to all entering freshmen. Students with an insufficient background to enter MTH 154-155, may take MTH 134 which provides the background for MTH 154-155.

<sup>2</sup>Students planning on graduate work in certain fields or attending certain professional schools are urged to take MTH 154-155, and PHY 151-152. It is important that students make this decision after consultation with their advisers. These students are also urged to take MTH 226, Applied Statistics.

<sup>3</sup>German, French, or Russian. (Other languages may be substituted with permission of the Department of Biological Sciences.)

## Secondary Teaching Major in Biology

### With a Group Minor in Chemistry and Physics

(A Typical Program)

### Semester 1

Freshman Exploratory

BIO 111, 112

CHM 104, 107

### Semester 3

ED 244

BIO Lecture & Lab

CHM 204, 207

MTH 154 (or 121)<sup>1</sup>

### Semester 5

PHY 151 (or 101)<sup>1</sup>

### Semester 2

Freshman Exploratory

BIO 113, 114

CHM 203, 206

UC 054

### Semester 4

ED 245

BIO Lecture & Lab

Elective

MTH 155 (or 122)<sup>1</sup>

### Semester 6

PHY 152, 158 (or 102, 158)<sup>1</sup>

<sup>1</sup>Students planning to enter graduate work in certain fields or to attend certain professional schools are urged to take MTH 154-155 and PHY 151-152. It is important that students make this decision after consultation with their advisers. These students are also urged to take MTH 226, Applied Statistics.

## ARTS AND SCIENCES

BIO Lecture & Lab  
Foreign Language<sup>2</sup>  
Elective

**Semester 7**  
Senior Colloquium  
BIO Lecture & Lab  
Elective

BIO Lecture & Lab  
Foreign Language<sup>2</sup>

**Semester 8**  
ED 428  
ED 455

<sup>2</sup>German, French, or Russian. (Other languages may be substituted with permission of the Department of Biological Sciences.)

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 (4 credits)**

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 (4 credits)**

Integration and correlation: the central nervous system, the endocrine system, and reproduction will be discussed.

Prerequisite: BIO 104 or permission of the instructor.

**BIO 106 Local Flora (4 credits)**

A study of the plant life native to Michigan with emphasis upon flowering plants. The following topics will be considered: woody plants in winter; life cycle of seed plants, e.g., lily and pine; preparation and use of biological keys to higher plants; recognition of a few families of native vascular plants; fern life history and identification; plant communities in Michigan.

**BIO 108 Bio-engineering (4 credits)**

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 (4 credits)**

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 (4 credits)**

Continuation of BIO 111.

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- BIO 114     Biology Laboratory** (1 credit)  
To accompany BIO 113.
- BIO 221     Physiology** (4 credits)  
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 Laboratory** (1 credit)  
A detailed study of vertebrate anatomy and physiology. To accompany BIO 221.
- BIO 223     Histology** (4 credits)  
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** (4 credits)  
The principles and techniques which are basic to discussions in the intermediate and advanced courses in biology. Topics covered will include: structure and function of macromolecules, cellular organization, biological energy, molecular genetics, and related techniques.  
Prerequisite: BIO 113.
- BIO 226     Elementary Biophysics and Cellular Biochemistry Laboratory** (1 credit)  
To accompany BIO 225.
- BIO 231     Microbiology** (4 credits)  
A discussion of the classification, morphology, and physiology of micro-organisms.  
Prerequisite: BIO 113.
- BIO 232     Microbiology Laboratory** (1 credit)  
To accompany BIO 231.
- BIO 237     Botany** (4 credits)  
A course in plant biology including topics on gross and microscopic structure, physiological processes, reproduction, and development. Diversity within the plant kingdom and evolutionary history are also discussed.  
Prerequisite: BIO 113.
- BIO 238     Botany Laboratory** (1 credit)  
To accompany BIO 237.
- BIO 241     Plant Morphology** (4 credits)  
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.

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- BIO 242 Plant Morphology Laboratory (1 credit)**  
To accompany BIO 241.
- BIO 243 Plant Physiology (4 credits)**  
Mineral nutrition, absorption and translocation, metabolism, hormonal control, dormancy, growth and reproduction, and physiological responses to the environment.  
Prerequisite: BIO 241.
- BIO 244 Plant Physiology Laboratory (1 credit)**  
To accompany BIO 243.
- BIO 247 Invertebrate Zoology (4 credits)**  
Comparative study of major invertebrate groups, with particular reference to their evolution.  
Prerequisite: BIO 113.
- BIO 248 Invertebrate Zoology Laboratory (1 credit)**  
To accompany BIO 247.
- BIO 249 Endocrinology (4 credits)**  
An integrated study of the different endocrine systems with emphasis on their inter-relationship, control, and mechanism of action.  
Prerequisite: BIO 225 or 221.
- BIO 250 Endocrinology Laboratory (1 credit)**  
To accompany BIO 249. Individual research projects.  
Prerequisite: Permission of the instructor.
- BIO 301 Ecology (4 credits)**  
Basic principles of environmental biology, illustrated through field study and having applications to Man.
- BIO 302 Ecology Laboratory (1 credit)**  
To accompany BIO 301.
- BIO 323 Developmental Biology (4 credits)**  
The principles of embryology and related topics. A consideration of events in the progressive development of the egg into the adult organism. The physiological aspects of morphogenesis, differentiation, growth, and regeneration will be included.  
Prerequisites: BIO 113, 114. BIO 223 desirable.
- BIO 324 Developmental Biology Laboratory (1 credit)**  
To accompany BIO 323. A study of the anatomy of developing vertebrate animals. Individual and group research projects in experimental morphogenesis.
- BIO 341 Genetics (4 credits)**  
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 (1 credit)**  
To accompany BIO 341.
- BIO 403 Protozoology (4 credits)**  
Recognition, morphology, reproduction, and physiology of the more important taxonomic groups of the Protozoa.

## ARTS AND SCIENCES

- BIO 404 Protozoology Laboratory (1 credit)**  
To accompany BIO 403.
- BIO 405 Special Topics (2, 3, or 4 credits)**  
Prerequisite: Permission of the instructor.
- BIO 407 Cellular Biochemistry (4 credits)**  
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 225, CHM 234, PHY 152. CHM 344 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 (4 credits)**  
Continuation of BIO 407.
- BIO 410 Cellular Biochemistry Laboratory (1 credit)**  
To accompany BIO 409.
- BIO 415 Differentiation (4 credits)**  
A consideration of the theories relating to the control of differentiation and development.  
Prerequisite: BIO 323.
- BIO 425 Biophysics (4 credits)**
- BIO 426 Biophysics Laboratory (1 credit)**  
To accompany BIO 425.
- BIO 429 Cytochemistry (4 credits)**  
A survey of techniques currently used in microscopy to analyze the distribution and quantity of specific chemicals within cells and their organelles. Techniques included are: specific staining reactions, enzyme digestion, metabolic inhibition, and autoradiography.  
Prerequisites: BIO 223, 224, and permission of the instructor.
- BIO 430 Cytochemistry Laboratory (1 credit)**  
To accompany BIO 429. Individual research projects employing cytochemical techniques to study and compare the chemical compositions of several types of cells.
- 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.

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- BIO 436 Biochemical and Biophysical Genetics Laboratory (1 credit)**  
 To accompany BIO 435.
- BIO 437 Virology (4 credits)**  
 Prerequisite: BIO 231.
- BIO 438 Virology Laboratory (1 credit)**  
 To accompany BIO 437.
- BIO 441 Microbial Genetics (4 credits)**  
 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 (4 credits)**  
 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 (4 credits)**  
 Discussion of recent publications in the biological sciences.
- BIO 463 Cell Biology (4 credits)**  
 Prerequisites: BIO 223 and permission of the instructor.
- BIO 464 Cell Biology Laboratory (1 credit)**  
 To accompany BIO 463.
- BIO 471 Advanced Physiology—Nerve (4 credits)**  
 Review and analysis of the modern concepts of membrane excitation phenomena of nerve and synapse. Electrophysiological phenomena discussed mostly at cellular and molecular levels.  
 Prerequisites: BIO 221 and permission of the instructor.
- BIO 472 Advanced Physiology Laboratory (1 credit)**  
 To accompany BIO 471. An introduction to research techniques in electrophysiology. Work will include: use of oscilloscope, amplifiers, and stimulator; extracellular potential recording technique; microelectrode technique.
- BIO 473 Advanced Physiology—Muscle (4 credits)**  
 Review and analysis of the modern concepts of muscular activity and molecular mechanism of contraction. The discussions will include the ultrastructural correlation of muscle function and mechanics, biochemical approaches to elucidate energetics of muscle contraction, theories of molecular basis of muscular contraction.  
 Prerequisites: BIO 221 and permission of the instructor.
- BIO 474 Advanced Physiology Laboratory (1 credit)**  
 To accompany BIO 473. An introduction to research techniques in muscle physiology. Work will include: neuromuscular transmission study; isometric force measurements;

## ARTS AND SCIENCES

isotonic lever design problems; length-tension, force-velocity relations; stress-strain relations of series elastic component; contractile properties of isolated actomyosin system and glycerinated muscle fiber.

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

Prerequisite: Permission of the instructor.

### **BIO 497 Apprentice College Teaching (2 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, usually a laboratory course, to underclassmen. Open to teaching or liberal arts majors with the support of the Department. Does not satisfy departmental major requirements.

## DEPARTMENT OF CHEMISTRY

Professors:	Paul Tombouliau, Chairman Kenneth M. Harmon
Associate Professors:	Gottfried Brieger James E. Davis Julien Gendell Steven R. Miller Frederick W. Obear Robert L. Stern Anthony L. Van Geet
Assistant Professors:	Jeffrey A. Greenhouse Joel W. Russell

The Oakland University chemistry programs offer students the laboratories, equipment, and research opportunities found only in large universities while retaining the strong emphasis on undergraduate education and informality of student-faculty relations characteristic of the small liberal arts college. The University has the resources to offer both highly professional and interdisciplinary chemistry programs while retaining the liberal arts dedication to developing the highest intellectual and creative potential of its students. Oakland University and the Department of Chemistry are completely accredited by the American Chemical Society.

The Department of Chemistry offers programs of study leading to the degrees of Bachelor of Arts and Master of Science. For details on the graduate program, see the Graduate Bulletin. The degree of Bachelor of Arts may be taken in the Department with the following majors and minors: the major in chemistry (American Chemical Society approved program), the liberal arts major in chemistry, the secondary teaching major in chemistry, the secondary teaching minor in chemistry.

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

Under some circumstances, chemistry majors may complete their general education requirements in Allport College, Charter College, or New College, but it is critical that they should first consult with a departmental adviser so that their graduation date will not be affected.

## ARTS AND SCIENCES

The Department is pleased to offer credit through the Advanced Placement Program (See p. 255.) Entering students interested in this option should consult with a departmental adviser well in advance of their first registration.

### Requirements for the Major in Chemistry

(American Chemical Society Approved Program)

Graduates who complete this curriculum have met the minimum standards for professional education of the American Chemical Society and will be so certified by the Department to the Society. This program is highly structured and provides excellent preparation in chemistry, physics, and mathematics either for graduate study or for industrial work. Well-prepared students who regularly attend the Spring Sessions (April—mid June) can usually also obtain the degree of Master of Science in chemistry in four calendar years.

Forty-eight credits in chemistry are required. Of these, 29 credits must be taken in the following lecture courses: CHM 114 or 104, CHM 115, 234-235, 312, 324, 344, 345. (CHM 351 and 444 are highly recommended electives.) At least 13 credits must be in laboratory courses in chemistry, including CHM 238, 317, 328, and 348. Twenty-six credits in mathematics and physics are required, including PHY 158, PHY 371, and MTH 254. Successful completion of GRM 101-102 or RUS 114-115 or equivalent proficiency is required. Admission to major standing requires a total of 32 credits in chemistry, physics, and mathematics.

### Requirements for the Liberal Arts Major in Chemistry

This curriculum is a flexible program with a minimum of specific requirements and a maximum of free electives; it is designed for those students who prefer to plan much of their own programs. This curriculum might well be selected by a student with a strong interest in the humanities; or in interdisciplinary sciences such as biochemistry, chemical physics, and environmental studies; or in scientific-business careers such as patent law and chemical sales; or by premedical students.

Thirty-four credits in chemistry are required, including either CHM 114-115, 234, and 344 or CHM 104, 203, 204, 205; and two of the following: CHM 312, 324, 345, and 351. At least 7 credits must be in laboratory courses in chemistry. MTH 154-155, PHY 151-152, and PHY 158 are required. (PHY 371 is a highly recommended elective.)

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Successful completion of one year of a foreign language or LIN 176, 177 is required.

Certain interchanges between the two sequences (CHM 104, 203, 204, 205 and CHM 114-115, 234, 344) may be made with the permission of the Department. Interested students should consult their departmental advisers. Admission to major standing requires a total of 28 credits in chemistry, physics, and mathematics.

### Requirements for the Secondary Teaching Major in Chemistry

Thirty-two credits in chemistry are required, including CHM 104, 203, 204, 205 (or CHM 114-115, 234, and 344), CHM 312, and CHM 351. Nine credits in laboratory courses in chemistry are required. Eight credits in mathematics are required, including MTH 155. Ten credits in physics are required. Minors in mathematics or physics are suggested. Other minors may be arranged. (See p. 212 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.

Successful completion of one year of a foreign language or LIN 176, 177 is required.

### Requirements for the Secondary Teaching Minor in Chemistry

Twenty credits in chemistry courses are required.

### Major in Chemistry (ASC Approved Program)

(A Typical Program)

#### Semester 1

CHM 114, 117  
MTH 154  
Distribution Requirement  
Freshman Exploratory

#### Semester 3

CHM 234  
MTH 254  
PHY 152, 158  
Distribution Requirement

#### Semester 5

CHM 344, 238  
(CHM 351, 357)<sup>1</sup>  
GRM 101 or RUS 114

#### Semester 7

CHM 312, 317

#### Semester 2

CHM 115, 118  
MTH 155  
PHY 151  
Freshman Exploratory

#### Semester 4

CHM 235, 237  
PHY 371  
(MTH 255)<sup>1</sup>  
Distribution Requirement

#### Semester 6

CHM 345, 348  
CHM 324, 328  
GRM 102 or RUS 115

#### Semester 8

CHM Elective

## ARTS AND SCIENCES

(CHM 444, 448)<sup>1</sup>  
Elective

Senior Colloquium  
Elective

<sup>1</sup>Courses in parentheses are not required but are recommended electives.

## Liberal Arts Major in Chemistry

(A Typical Program for a Premedical Student  
with a Chemistry Major)

### Semester 1

CHM 104, 107  
MTH 134 or 154  
Distribution Requirement  
Freshman Exploratory

### Semester 3

CHM 204, 207  
MTH 155 or  
Distribution Requirement  
PHY 152  
BIO 111, 112

### Semester 5

CHM 351, 357  
BIO Elective  
Foreign Language  
or LIN 176

### Semester 7

(CHM Elective)<sup>1</sup>  
Elective  
Elective

### Semester 2

CHM 203, 206  
MTH 154 or 155  
PHY 151  
Freshman Exploratory

### Semester 4

CHM 205, 208  
BIO 113, 114  
PHY 158  
Distribution Requirement

### Semester 6

CHM 312 or 324  
BIO Elective  
Foreign Language  
or LIN 177

### Semester 8

(CHM Elective)<sup>1</sup>  
Senior Colloquium  
Elective

<sup>1</sup>CHM 261, 324, 328, and 451 are recommended electives.

## Secondary Teaching Major in Chemistry

with a Group Minor in Mathematics and Physics

(A Typical Program)

### Semester 1

CHM 104, 107  
MTH 134  
Distribution Requirement  
Freshman Exploratory

### Semester 3

CHM 204, 207  
MTH 155  
ED 244  
Distribution Requirement

### Semester 2

CHM 203, 206  
MTH 154  
UC 054  
Freshman Exploratory

### Semester 4

CHM 205, 208  
PHY 151  
ED 245  
Elective

## ARTS AND SCIENCES

### Semester 5

CHM 351, 357  
PHY 152, 158  
Foreign Language  
or LIN 176

Elective

### Semester 7

(CHM Elective)<sup>1</sup>  
Senior Colloquium

Elective

Elective

### Semester 6

CHM 312  
PHY 371 or MTH 226 or 254  
Foreign Language  
or LIN 177

Elective

### Semester 8

ED 428  
ED 455

<sup>1</sup>CHM 317 and 324, 328 are recommended electives.

### CHM 104 Introductory Chemistry (4 credits)

Introduction to atomic and molecular structure, chemical bonding, stoichiometry, solution and ionic equilibria.

### CHM 107 Introductory Chemistry Laboratory (1 credit)

Experiments which illustrate fundamental chemical principles and introduce modern laboratory techniques; methods of analysis and physical properties of compounds.

Prerequisite or corequisite: CHM 104.

### CHM 114 Chemistry (4 credits)

An introduction to the study of gases, liquids, solids, atomic and molecular structure, stoichiometry, equilibria, thermodynamics, and kinetics. Offered in the Fall Semester only.

Prerequisite: Three years of high school mathematics. Some knowledge of high school chemistry is assumed. Concurrent registration in MTH 154 or MTH 134 is desirable.

### CHM 115 Chemistry (3 credits)

Continuation of CHM 114. Offered in the Winter Semester only.

Prerequisite: CHM 114.

Prerequisite or corequisite: MTH 154.

### 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 191 Computer Techniques (2 credits)

Introduction to computer programming and numerical methods used in chemistry: Fortran, curve fitting, roots of equations, numerical integration.

Prerequisite: One year of college chemistry or two years of high school chemistry.

### CHM 203 Introductory Organic Chemistry (4 credits)

Rates of chemical reactions; basic organic chemistry; synthetic polymers; biopolymers.

Prerequisite: CHM 104 or 114.

## ARTS AND SCIENCES

### **CHM 204 Intermediate Organic Chemistry (4 credits)** **(Structure and Mechanisms)**

Treatment of organic reactions and nomenclature: stereochemistry, mechanisms, synthesis, and structure proof. Special emphasis will be placed on topics that are biologically significant.

Prerequisite: CHM 203.

### **CHM 205 Intermediate Chemistry (Dynamics) (4 credits)**

An introduction to chemical energetics: thermodynamics, kinetics, solution chemistry. Applications will be drawn from biochemical sources where appropriate.

Prerequisites: CHM 203 or 115; MTH 154.

Prerequisite or corequisite: MTH 155.

### **CHM 206 Introductory Organic Chemistry (1 credit)** **Laboratory**

Continuation of CHM 107 with emphasis on organic systems.

Prerequisite or corequisite: CHM 203.

### **CHM 207 Intermediate Organic Chemistry (1 credit)** **Laboratory**

Synthetic and degradative techniques of organic chemistry: special emphasis on drug synthesis and natural product structure proof.

Prerequisites or corequisites: CHM 204 and CHM 206 or 118.

### **CHM 208 Intermediate Chemistry Laboratory (1 credit)**

Experiments which illustrate the determination of physical properties of compounds with emphasis on biological systems: thermochemistry, equilibrium, electrochemistry, kinetics, surface phenomena, macromolecules, electric and magnetic properties.

Prerequisites or corequisites: CHM 205 and CHM 206 or 118.

### **CHM 234-235 Organic Chemistry (4 credits each)**

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

Prerequisite: CHM 115 or 104.

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

Qualitative analysis techniques of modern synthetic and physical organic chemistry.

Prerequisites: CHM 117-118 or 107.

Prerequisites or corequisites: CHM 234-235.

### **CHM 261 Radiochemistry (3 credits)**

Nuclear structure and stability, nuclear reactions, decay schemes, dosimetry, radioisotope production, tracer applications, radioisotope methodology; includes laboratory.

Prerequisite: CHM 206 or 118.

### **CHM 312 Inorganic Chemistry (4 credits)**

Discussion of representative inorganic compounds including salts, covalent and ionic molecules, and transition metal compounds with emphasis on structure, bonding, kinetics, and mechanisms.

Prerequisites: CHM 205 or 344, PHY 371.

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

Advanced preparatory techniques; methods of purification and analysis.

Prerequisite or corequisite: CHM 312.

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

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

Prerequisites or corequisites: CHM 237 or 207; CHM 344 or 205; PHY 152.

Corequisite: CHM 328.

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

Laboratory coordinated with CHM 324.

Corequisite: CHM 324.

### **CHM 344 Physical Chemistry (4 credits)**

Physical chemistry of macroscopic systems: thermodynamics, kinetics, transport properties.

Prerequisites: CHM 203 or 115, MTH 155, PHY 152.

### **CHM 345 Physical Chemistry (4 credits)**

Physical chemistry of microscopic systems: elementary quantum chemistry, bonding theories, introductory statistical mechanics.

Prerequisites: CHM 205 or 344, MTH 254, PHY 371.

### **CHM 348 Physical Chemistry Laboratory (2 credits)**

Prerequisites: CHM 344, PHY 158.

### **CHM 351 Biochemistry (4 credits)**

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

Prerequisite: CHM 235 or 205.

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

Prerequisite or corequisite: CHM 351.

### **CHM 371 Environmental Chemistry (3 credits)**

A detailed treatment of a variety of chemical topics and problems in the current environment. The basis for phenomena of eutrophication, combustion chemistry, modes of pesticide action, chemical ecological relationships are typical topics considered.

Prerequisites: CHM 234; some knowledge of biochemistry desirable.

### **CHM 400 Seminar (1 credit)**

Weekly discussions of all fields of current interest in chemistry. (This course may be taken twice for credit.)

### **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 (4 credits)**

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 (4 credits)**

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, 328, 348; PHY 158.

## ARTS AND SCIENCES

### **CHM 434 Advanced Organic Chemistry (4 credits)**

Discussion of the various aspects of modern synthetic methods, stereochemistry, and reaction mechanisms; selected special topics.

Prerequisite: CHM 204 or 235.

### **CHM 444 Advanced Physical Chemistry (4 credits)**

Application of quantum mechanics and statistical mechanics to chemical kinetics, molecular structure, and molecular spectroscopy.

Prerequisite: CHM 345.

### **CHM 448 Spectroscopy Laboratory (2 credits)**

Experimental techniques of spectroscopy: infrared, ultraviolet, nuclear magnetic resonance, electron spin resonance, mass spectroscopy.

Prerequisite or corequisite: CHM 444.

### **CHM 452 Advanced Biochemistry (4 credits)**

Topics in intermediary metabolism, cellular regulation, and molecular genetics.

Prerequisite: CHM 351 or BIO 407.

### **CHM 487 Advanced Preparations (2 or 4 credits)**

Specialized laboratory work in selected areas emphasizing advanced techniques.

Prerequisite: Permission of the Department.

### **CHM 490 Research (1, 2, 4, 6, or 8 credits)**

Laboratory and library practice in undergraduate research.

Prerequisite: Permission of the Department.

Chemistry courses on the 500 level are graduate courses available to well-prepared undergraduate students with permission of the Department. These courses may be offered as reading courses on a tutorial basis or as small lecture courses.

### **CHM 512, 513 Topics in Inorganic Chemistry (4 credits each)**

Advanced treatment of selected topics of inorganic chemistry.

Prerequisite: CHM 413 or equivalent.

### **CHM 523, 524 Topics in Analytical Chemistry (4 credits each)**

Advanced treatment of selected topics of current analytical chemistry such as separation methods, instrumentation, electrochemistry.

Prerequisite: CHM 422 or equivalent.

### **CHM 531, 532, 533 Topics in Organic Chemistry (4 credits each)**

Advanced treatment of selected special topics: natural products, organometallics, reaction mechanisms.

Prerequisite: CHM 434 or equivalent.

### **CHM 543, 544 Topics in Physical Chemistry (4 credits each)**

Special topics in physical chemistry such as quantum mechanics, statistical mechanics and thermodynamics, kinetics, group theory.

Prerequisite: CHM 444 or equivalent.

### **CHM 552, 553 Topics in Biochemistry (4 credits each)**

Advanced treatment of selected topics in biochemistry. This course is usually conducted as a tutorial with the topics chosen according to the interests and backgrounds of the students.

Prerequisite: CHM 452 or equivalent.

## DEPARTMENT OF CLASSICAL LANGUAGES AND LITERATURES

Professor: Robert R. Dyer, Chairman

Assistant Professor: Cherryl A. Wagner

Interest in ancient Greece or Rome will flourish as long as we care enough about our present to be concerned about our past. Most of us, unfortunately, are unaware of how radically our classical past has influenced the books we read, the languages we speak, and the thoughts we think. The study of classical languages and literatures on the university level is designed to preserve and increase our awareness of the classical world through systematic study of its ancient civilization, of its aims and achievements, of its glories and limitations, of its triumphs and tragedies.

The Department of Classical Languages and Literatures offers programs of study leading to the degree of Bachelor of Arts with liberal arts major in classical languages, liberal arts major in Latin, and secondary teaching major in Latin. The requirements of all three of these programs are compatible with the general education requirements of the University Course Program and of the Allport College, the Charter College, and the New College programs.

Many classics majors are preparing to teach Latin in the high schools; some will go on to graduate school for advanced degrees and a career in college teaching. Others, enrolled as Latin or Greek minors, will combine classics with English, history, or other foreign languages in preparation for a variety of careers.

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

Thirty-six credits are required, in addition to the 16 credits in Latin (LTN 114-115, LTN 214-215) used to satisfy the University Course language requirements. A typical classics major would include: 12 credits in Latin (LTN 320, LTN 414-415); 16 credits in Greek (GRK 114-115, GRK 214-215); 8 credits in classics or ancient history. Those planning graduate work in classics should complete in addition to the above 36 credits: 4 credits in Latin literature; 8 credits in Greek; 8 credits in classics or ancient history. Admission to major standing requires two Freshman Exploratories and 16 credits in Latin.

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### Requirements for the Liberal Arts Major in Latin

Thirty-six credits in Latin and classics or ancient history are required, in addition to the 16 credits in Latin (LTN 114-115, LTN 214-215) fulfilling the University Course language requirement. A typical program would include: 20 credits in LTN 320; 8 credits in LTN 414-415; 8 credits in classics or ancient history. Admission to major standing requires two Freshman Exploratories and 16 credits in Latin.

### Requirements for the Secondary Teaching Major in Latin

Thirty-two credits in Latin and classics or ancient history are required, in addition to the 16 credits in Latin (LTN 114-115, LTN 214-215) fulfilling the University Course language requirement. A typical program includes: 16 credits in LTN 320; 8 credits in LTN 414-415; 8 credits in classics or ancient history. The following education courses are also required: ED 244, ED 245, ED 428, ED 455. Admission to major standing requires two Freshman Exploratories, 16 credits in Latin, acceptance by the Department of Classical Languages and Literatures, and concurrent acceptance into the Teacher Education Program.

**CLS 204 Classical Greek Philosophy (4 credits)**  
Identical with PHL 204.

**CLS 303, 304 Classical Literature in Translation (4 credits each)**  
A two-semester survey of the major writers of Greece and Rome. Either semester may be elected independently.

**CLS 312 Classical Mythology (4 credits)**  
The principal Greek and Roman myths and their uses in classical and post-classical art and literature. Identical with ENG 312. Note: Oakland University students concentrating in English may count this course toward their major.

**CLS 317 The Classical Tradition (4 credits)**  
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 (4 credits)**  
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.

**CLS 337 Hellenic Greece (4 credits)**  
Greek history from the Bronze Age to the Peloponnesian War. Identical with HST 337.

**CLS 338 Hellenistic Greece (4 credits)**  
Greek history from Alexander the Great to the Roman period. Identical with HST 338.

**CLS 339 Republican Rome (4 credits)**  
Roman history from the regal period to the end of the Republic. Identical with HST 339.

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### **CLS 340 Imperial Rome (4 credits)**

Roman history from the principate of Augustus to the fall of the western empire. Identical with HST 340.

### **CLS 355 Greek and Roman Art (4 credits)**

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. Identical with ART 455.

Prerequisite: UC 047 or ART 147.

### **CLS 382 Ancient and Medieval Philosophers (4 credits)**

An intensive study of the works of one major philosopher of the ancient or the medieval period. The specific philosopher to be considered will vary from year to year. May be repeated for credit. Offered every year. Identical with PHL 382.

### **GRK 114-115 Elementary Greek (4 credits)**

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

### **GRK 214-215 Intermediate Greek (4 credits each)**

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 (4 credits)**

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 (4 credits each)**

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 (4 or more credits).

### **LTN 114-115 Elementary Latin (4 credits each)**

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 (4 credits each)**

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 215.

### **LTN 320 Selections from Latin Literature (4 credits)**

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 (4 credits each)**

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 (4 or more credits).

## ARTS AND SCIENCES

### DEPARTMENT OF ECONOMICS

Professors:	Sid Mitra, Chairman Norton C. Seeber Theodore O. Yntema (Visiting)
Associate Professors:	Karl D. Gregory (on leave 1970-71) Robbin R. Hough
Assistant Professors:	Eleutherios N. Botsas David P. Doane John Hurd II Lon Polk John E. Tower Kenneth C. Young
Instructor:	Anthony P. Cephalas

The liberal arts program in economics leads to the degree of Bachelor of Arts and is offered in the College of Arts and Sciences under the direction of the faculty in economics of the School of Economics and Management. Students taking liberal arts majors, including that in economics, must satisfy the appropriate degree requirements in the College of Arts and Sciences as described in this catalog. Economics majors may satisfy the University's general education requirements for graduation either by participating in the University Course Program or by participating in the programs of one of the inner colleges—Allport College, Charter College, or New College. When choosing an inner-college program, students should consult their advisers to insure that all requirements for graduation are met.

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

#### Requirements for the Liberal Arts Major in Economics

The major in economics requires a total of 28 credits in economics, distributed as follows: UC 056, ECN 216, ECN 217, ECN 480, and three other courses in the Department, one of which must have as prerequisite ECN 216 and another of which requires ECN 217 as

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prerequisite. In addition, all majors must take one course in economic statistics with accompanying laboratory (either ECN 310, 311 or MGT 210, 211); they must complete two semesters (8 credits) of work in another social science; and they must take MTH 121-122 (preferably during their first year). (MTH 154 may normally be substituted for MTH 122, or the MTH 154-155 sequence may be substituted for the MTH 121-122 sequence.) Admission to major standing requires two Freshman Exploratories, plus UC 056, ECN 216, ECN 217, and MTH 121-122. Economics majors may fulfill the University foreign language requirement by (a) successfully completing a second-semester course in language at the college level, or (b) placing beyond first-year language proficiency at the college level in an examination administered upon admission, or (c) completing LIN 176 (ENG 176) and LIN 177 (ENG 177).

### Liberal Arts Major in Economics

(A Typical Program)

#### Semester 1

UC 056  
Freshman Exploratory  
MTH 121  
Foreign Language  
or LIN 176

#### Semester 3

ECN 216  
Distribution Requirement  
Distribution Requirement  
Elective

#### Semester 5

ECN 310 (plus ECN 311)  
Economics Elective  
Distribution Requirement  
Elective

#### Semester 7

Economics Elective  
Elective  
Elective  
Elective

#### Semester 2

Distribution Requirement  
Freshman Exploratory  
MTH 122  
Foreign Language  
or LIN 177

#### Semester 4

ECN 217  
Distribution Requirement  
Distribution Requirement  
Elective

#### Semester 6

Economics Elective  
Distribution Requirement  
Elective  
Elective

#### Semester 8

ECN 480  
Elective  
Senior Colloquium

### ECN 216 Microeconomic Analysis (4 credits)

Analysis of pricing, resource allocation, and income distribution at the level of the individual firm, industry, and household consuming unit. Offered in the Fall and Winter Semesters.

Prerequisite: UC 056.

Prerequisite or corequisite: MTH 122.



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### **ECN 323 International Trade and Finance (4 credits)**

The theory of international specialization and exchange, commercial policy, national income and balance of payments, monetary relations, foreign investment, and current issues of international economic policy.

Prerequisite: ECN 216.

### **ECN 324 Business in the American Economy (4 credits)**

Public attitudes toward, and government regulation of, business; social and legal responsibilities of business. Identical with MGT 324.

Prerequisite: ECN 216.

### **ECN 325 Industrial Organization (4 credits)**

Resource patterns, production processes (including technology and economies of scale), and managerial organization as related to the size of firms and the location of industries. Identical with MGT 325.

Prerequisite: ECN 216.

### **ECN 326 Economic Development (4 credits)**

Application of the tools of economic analysis to the problems of economic development and growth.

Prerequisite: UC 056 or permission of the instructor.

### **ECN 333 Labor-Management Relations (4 credits)**

Analysis of management-employee relations in modern industry; public policy in labor-management areas. Identical with MGT 333.

Prerequisites: UC 056 and ECN 216.

### **ECN 335 The Economics of Collective Decision-making (4 credits)**

An investigation of the causes and implications of the limitations of voluntary decentralized exchange systems. Alternative techniques of economic-political organization will be evaluated. Such problem areas as pollution, conservation, and transportation will be examined, using techniques of applied welfare economics, including cost-benefit analysis. Identical with MGT 335.

Prerequisite: UC 056 or permission of the instructor.

### **ECN 342 Simulation in Economics (4 credits)**

An introduction to the use of simulation techniques in economic analysis.

Prerequisites: Major standing and permission of the instructor.

### **ECN 350 Economic Structures and Systems (4 credits)**

A comparative analysis of the principles, structures, and ideologies of capitalism, socialism, and the command economy, with special emphasis on the processes of economic decision-making.

Prerequisite: ECN 216 or permission of the instructor.

### **ECN 405 Econometrics (4 credits)**

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

Prerequisites: ECN 216, ECN 217, either MGT 210 or ECN 310, and permission of the Department.

### **ECN 417 Advanced Economic Theory (4 credits)**

This course covers selected topics in the economic theory of resource allocation, economic growth, and stability.

Prerequisites: ECN 216 and ECN 217, or permission of the instructor.

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**ECN 418 Selected Topics in Economic Policy (4 credits)**

Prerequisite: Major standing.

**ECN 480 Seminar (4 credits)**

Theses, individual topics, and readings. Offered in the Winter Semester.

Prerequisite: Permission of the Department.

**ECN 490 Independent Research (4 credits)**

Prerequisite: Permission of the instructor.

DEPARTMENT OF ENGLISH LANGUAGE  
AND LITERATURE

Professors:	John P. Cutts, Chairman Maurice F. Brown Thomas Fitzsimmons William Schwab Gertrude M. White, Associate Chairman
Associate Professors:	John G. Blair Joseph W. DeMent Peter G. Evarts, Associate Chairman James F. Hoyle Richard S. Lyons Donald E. Morse Marilyn L. Williamson
Assistant Professors:	Charles M. Broh Jane Donahue Robert T. Eberwein Daniel H. Fullmer David W. Mascitelli
Instructors:	Robert L. Donald Nigel Hampton Brian F. Murphy Helen J. Schwartz
Special Instructors:	Phebe Chao Margaret L. Kurzman Joan G. Rosen
Assistant Instructor:	Douglas F. Marsh
Lecturer:	Rosalie Murphy

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

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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.

The Department of English offers undergraduate programs of study leading to the degree of Bachelor of Arts with liberal arts major, secondary teaching major, major with concentration in linguistics, and secondary teaching minor. The Department of English offers graduate programs of study leading to the degrees of Master of Arts in English and Master of Arts in Teaching in English. The latter program is jointly sponsored by the Department of English and the School of Education. For further information on the graduate programs, see the Graduate Bulletin.

Students electing majors in the Department of English may complete their general education requirement in the University Course Program or in Allport College, Charter College, or New College. Their choice should be made in consultation with their advisers.

The Department is prepared to entertain petitions for advanced placement from students presenting evidence of satisfactory completion of courses in high school, through the Advanced Placement Program of the College Entrance Examination Board.

### Requirements for the Liberal Arts Major and Secondary Teaching Major in English

A total of 40 credits (ten courses) in English is required for both liberal arts and secondary teaching majors. Of this total, 20 credits must be taken as follows:

ENG 140 Introduction to Literary Studies (4 credits)  
This is the first course in the major and is prerequisite to all other required courses. It should be taken in either semester of the freshman year.

ENG 224 American Writers (4 credits)  
ENG 241 Chaucer, Shakespeare, Milton: (4 credits)  
Selected Works

ENG 242 English Augustan and Romantic Works (4 credits)  
These three courses serve as prerequisites to all courses at the 300 and 400 level (except for those courses where prerequisites consist only of permission of the instructor). ENG 241 and ENG 242 should be taken in sequence during the sophomore year. ENG 224

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may be taken in either semester of the sophomore year. Prerequisite: ENG 140.

Four credits in language studies (Department of English courses at the 300 level with numbers ending in 76-82).

Secondary education majors must take:

ENG 377 Modern English Grammar (4 credits)

Of the remaining 20 credits, at least 8 credits must be taken in 300-level courses, and at least 4 credits in 400-level courses. No 100-level courses except ENG 140 may be applied toward the major.

### Requirements for the Secondary Teaching Minor in English

The secondary teaching minor in English consists of 20 credits (five specified courses): ENG 140, ENG 224, ENG 241, ENG 242, and ENG 377.

### Requirements for the English Major

#### with Concentration in Linguistics

A modified English major with a concentration in linguistics is available for interested students. For details see the concentration in linguistics, pp. 182-87.

### Special Note to Non-Majors

Students seeking electives in English or a course to satisfy the Distribution Requirement in literature may choose from among ENG 105 and ENG 111, which are open to all students without prerequisites, or ENG 200, ENG 201, ENG 202, ENG 207, ENG 208, ENG 209, and ENG 224, which are open to students with two Freshman Exploratories. Students who are not prospective English majors or minors should not take ENG 140 since it is an intensive course designed specifically as preparation for advanced courses in the major.

### The First Two Years of a Typical Program for an English Major

#### Semester 1

ENG 140 or

Distribution Requirement  
Freshman Exploratory

#### Semester 2

ENG 140 or

Distribution Requirement  
Freshman Exploratory

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Foreign Language  
Distribution Requirement

### Semester 3

ENG 241  
ENG 224 (in either semester)  
Elective  
Distribution Requirement

Foreign Language  
Distribution Requirement

### Semester 4

ENG 242  
200-level ENG  
Elective  
Distribution Requirement

### ENG 009 Aids to Expository Writing

A non-credit course designed to assist students in developing the basic skills of writing expository prose; offered as a tutorial by the Writing Center. (Grade of "S" or "U" appears on transcript.)

### ENG 105 Shakespeare (4 credits)

A general introduction to representative dramatic works of Shakespeare. The course is designed for students seeking an English elective or a course to satisfy the Distribution Requirement in literature. Open to all students without prerequisite. (May not be applied toward the major.)

### ENG 111 Modern Literature (4 credits)

A general introduction to some phase of modern literature, the specific content to vary at the discretion of the instructor. (Sample offerings might be Modern Drama, Modern American Fiction, Continental Literature, etc.) The course is designed for students seeking an English elective or a course to satisfy the Distribution Requirement in literature. Open to all students without prerequisite. (May not be applied toward the major.)

### ENG 140 Introduction to Literary Studies (4 credits)

Intensive practice in the techniques of reading literature and introduction to important basic concepts of criticism and commentary. Reserved for English majors and minors as their first departmental course.

Prerequisite: Intention to major or minor in English.

### ENG 176, 177 The Nature of Language (4 credits each)

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, the psychology of communication, and other topics related to the nature of language are examined. The second semester studies the relationship between speech and writing; phonological, grammatical, and semantic systems; the history of language; the application of linguistic principles to language learning, stylistic analyses, and the teaching of standard dialects. May not be applied toward the English major or minor. Identical with LIN 176, 177.

### ENG 200 Topics in Literature and Language (4 credits)

Topics or problems selected by the instructor.

Prerequisites: Two Freshman Exploratories.

### ENG 201 Poetry (4 credits)

Introduction to the analysis and enjoyment of poetry.

Prerequisites: Two Freshman Exploratories.

### ENG 202 Epic (4 credits)

Introduction to the analysis and enjoyment of the epic.

Prerequisites: Two Freshman Exploratories.

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### **ENG 207 Drama (4 credits)**

Introduction to the analysis and enjoyment of drama.

Prerequisites: Two Freshman Exploratories.

### **ENG 208 Biography (4 credits)**

Introduction to the analysis and enjoyment of biography.

Prerequisites: Two Freshman Exploratories.

### **ENG 209 The Novel (4 credits)**

Introduction to the analysis and enjoyment of the novel.

Prerequisites: Two Freshman Exploratories.

### **ENG 210 Fundamentals of Exposition (4 credits)**

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

Prerequisite: ENG 140.

### **ENG 224 American Writers (4 credits)**

A study of a small number of major works which constitute the core of the American literary tradition, including *The Scarlet Letter*, *Moby Dick*, and *Huckleberry Finn*.

Prerequisite: ENG 140. Two Freshman Exploratories acceptable for non-majors.

### **ENG 241 Chaucer, Shakespeare, Milton: Selected Works (4 credits)**

Close examination of major works by these three authors.

Prerequisite: ENG 140.

### **ENG 242 English Augustan and Romantic Works (4 credits)**

A close examination of major texts of eighteenth and early nineteenth century English literature.

Prerequisite: ENG 140.

### **ENG 290 Introduction to Critical Methods (4 credits)**

A general introduction to the principal critical methods that have been used to analyze literature, together with the assumptions which underly those methods.

Prerequisite: ENG 140.

### **ENG 300 Special Topics in Literature and Language (4 credits)**

Special problems or topics selected by the instructor.

Prerequisites: ENG 224, 241, 242.

### **ENG 307 Modern Drama (4 credits)**

Studies in English, American, and Continental drama since Ibsen.

Prerequisites: ENG 224, 241, 242.

### **ENG 310 Advanced Exposition (4 credits)**

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. Students should submit samples of their work in the semester preceding that in which they wish to enroll.

Prerequisite: Permission of the instructor.

### **ENG 311 Chaucer (4 credits)**

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

Prerequisites: ENG 224, 241, 242.

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- ENG 312 Classical Mythology (4 credits)**  
The principal Greek and Roman myths and their uses in classical and post-classical art and literature. Identical with CLS 312.
- ENG 315 Shakespeare (4 credits)**  
Reading and discussion of a representative selection of the plays and poetry.  
Prerequisites: ENG 224, 241, 242.
- ENG 317 Early American Literature (4 credits)**  
Studies in American literature before 1820. The course may concentrate on a type or movement within the period, at the discretion of the instructor.  
Prerequisites: ENG 224, 241, 242.
- ENG 322 Nineteenth Century American Fiction (4 credits)**  
Selected readings in American fiction from Washington Irving to Henry James.  
Prerequisites: ENG 224, 241, 242.
- ENG 324 American Romanticism (4 credits)**  
A study of the various manifestations of the romantic movement in America with readings drawn primarily from the poetry, essays, and fiction of the pre-Civil War period.  
Prerequisites: ENG 224, 241, 242.
- ENG 326 The Gilded Age (4 credits)**  
Readings in the American fiction and poetry of the period between the Civil War and World War I.  
Prerequisites: ENG 224, 241, 242.
- ENG 332 Modern American Fiction (4 credits)**  
Readings in American fiction from Henry James to World War II.  
Prerequisites: ENG 224, 241, 242.
- ENG 333 Modern American Poetry (4 credits)**  
Studies in the poetry of the first half of the twentieth century.  
Prerequisites: ENG 224, 241, 242.
- ENG 340 American Writing Now (4 credits)**  
Contemporary American poetry, drama, and fiction.  
Prerequisites: ENG 224, 241, 242.
- ENG 353 Old English Literature (4 credits)**  
A study of the literature of England from the beginning to the Norman Conquest. Primary focus on the Old English lyric and epic.  
Prerequisites: ENG 224, 241, 242.
- ENG 354 Medieval Literature (4 credits)**  
Dominant themes and forms from the Norman Conquest to 1500, 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.  
Prerequisites: ENG 224, 241, 242.
- ENG 355 Literature of the English Renaissance (4 credits)**  
Selected poetry and prose, non-dramatic; the Renaissance (roughly 1550-1660) as a historical and cultural phenomenon.  
Prerequisites: ENG 224, 241, 242.

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### **ENG 356 Drama of the English Renaissance (4 credits)**

A survey of English drama (exclusive of Shakespeare) from 1590 to 1640.

Prerequisites: ENG 224, 241, 242.

### **ENG 360 Seventeenth Century English Poetry (4 credits)**

A study of seventeenth century poetry with particular emphasis on the schools of Jonson and Donne.

Prerequisites: ENG 224, 241, 242.

### **ENG 366 Restoration and Eighteenth Century Drama (4 credits)**

Study of Restoration comedy, tragedy, and the heroic play and/or the sentimental drama of the eighteenth century.

Prerequisites: ENG 224, 241, 242.

### **ENG 367 English Literature of the Restoration and Early Eighteenth Century (4 credits)**

Studies in the prose and poetry of this period with emphasis on the writings of Dryden, Swift, and Pope.

Prerequisites: ENG 224, 241, 242.

### **ENG 368 Eighteenth Century English Literature: The Age of Johnson (4 credits)**

Prose and poetry of the second half of the eighteenth century with emphasis on Dr. Johnson and his circle and the development of the novel.

Prerequisites: ENG 224, 241, 242.

### **ENG 369 The English Novel (4 credits)**

A study of representative English novels.

Prerequisites: ENG 224, 241, 242.

### **ENG 370 The Romantic Period (4 credits)**

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

Prerequisites: ENG 224, 241, 242.

### **ENG 371 Victorian Literature (4 credits)**

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

Prerequisites: ENG 224, 241, 242.

### **ENG 375 Modern Literature (4 credits)**

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

Prerequisites: ENG 224, 241, 242.

### **ENG 376 History of the English Language (4 credits)**

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

Prerequisites: ENG 224, 241, 242.

### **ENG 377 Modern English Grammar (4 credits)**

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

Prerequisites: ENG 224, 241, 242.

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### **ENG 382 Old English (4 credits)**

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.

Prerequisites: ENG 224, 241, 242.

### **ENG 390 Literary Criticism (4 credits)**

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

Prerequisites: ENG 224, 241, 242.

### **ENG 400 Advanced Topics in Literature and Language (4 credits)**

Advanced topics and problems selected by the instructor.

Prerequisites: Two 300-level courses in English.

### **ENG 410 Imaginative Writing (4 credits)**

Designed to provide potential writers of fiction, poetry, and drama with an opportunity to develop technical proficiency and to 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. Limited enrollment.

Prerequisite: Permission of the instructor.

### **ENG 425 Melville (4 credits)**

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

Prerequisites: Two 300-level courses in English.

### **ENG 430 Henry James (4 credits)**

The novels, shorter fiction, and literary criticism of Henry James, with attention to biographical and critical approaches.

Prerequisites: Two 300-level courses in English.

### **ENG 439 Faulkner (4 credits)**

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

Prerequisites: Two 300-level courses in English.

### **ENG 465 Shakespeare (4 credits)**

Intensive analysis of four or five of the plays.

Prerequisites: Two 300-level courses in English.

### **ENG 466 Milton (4 credits)**

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

Prerequisites: Two 300-level courses in English.

### **ENG 470 W. B. Yeats (4 credits)**

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

Prerequisites: Two 300-level courses in English.

### **ENG 495 Seminar: Advanced Topics in American Literature (4 credits)**

Topics or problems selected by the instructor.

Prerequisites: Two 300-level courses in English.

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**ENG 496 Seminar: Advanced Topics in English (4 credits)**  
**Literature**

Topics or problems selected by the instructor.  
Prerequisites: Two 300-level courses in English.

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

An elective course open to any well-qualified upperclassman who wins consent of an instructor in the Department of English to assist in presenting an undergraduate course. The apprentice should be capable of assuming *limited* classroom responsibility. May not be taken for credit toward the major.  
Prerequisite: Permission of the instructor.

**ENG 499 Independent Reading (4 credits)**

Directed reading or research designed exclusively for senior English majors who win the consent of an instructor. A proposal for a course of study should be submitted to an instructor in the semester preceding that in which the independent study is to be taken.  
Prerequisite: Permission of the instructor.

**ENG 500 Advanced Topics in Literature and (4 or 8 credits)**  
**Language**

**ENG 510 Literature and Composition (4 credits)**

**ENG 531 Literary Kinds (4 credits)**

**ENG 532 Literary History (4 credits)**

**ENG 533 Formal Analysis (4 credits)**

**ENG 534 Language History (4 credits)**

**ENG 600 Studies in Language and Literature (4 credits)**

**ENG 640 Studies in American Literature (4 credits)**

**ENG 641 Studies in American Literature (4 credits)**

**ENG 642 Studies in Old and Middle English (4 credits)**  
**Literature**

**ENG 643 Studies in Renaissance Literature (4 credits)**

**ENG 644 Studies in Eighteenth Century Literature (4 credits)**

**ENG 645 Studies in Nineteenth Century Literature (4 credits)**

**ENG 646 Studies in Modern Literature (4 credits)**

**ENG 647 Studies in the Structure of English (4 credits)**

**ENG 648 Studies in Literary Theory (4 credits)**

**ENG 690 The Master's Project (4 credits)**

## ARTS AND SCIENCES

### DEPARTMENT OF HISTORY

**Professors:** Charles W. Akers, Chairman  
Richard M. Brace  
Melvin Chernov  
Robert C. Howes  
George T. Matthews

**Associate Professors:** V. John Barnard  
Harold Gorvine  
Paul M. Michaud (Visiting)  
W. Patrick Strauss  
S. Bernard Thomas

**Assistant Professors:** DeWitt S. Dykes, Jr.  
Leonardas V. Gerulaitis  
James D. Graham  
Gerald C. Heberle  
Joseph A. Klaitis  
Roy A. Kotynek  
Robert J. Krompart  
Anne H. Tripp  
Richard P. Tucker  
Caleb R. Woodhouse

**Instructors:** Leonard Bushkoff  
Judith A. Koucky  
I. Michael Solomon

The Department of History consists of professional scholars engaged in the study of American, Afro-American, Latin American, British, European, Russian, Chinese, Japanese, Indian, and African 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,

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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.

The Department of History offers programs of study leading to the degree of Bachelor of Arts with liberal arts major in history, history major with area studies concentration, secondary teaching major in history, and secondary teaching minor in history. Students in Allport College, Charter College, and New College can complete a degree program with a liberal arts major in history in eight semesters, but students in Allport College, Charter College, and New College who plan to complete a degree program with a secondary teaching major in history should be willing to add a ninth semester in order to meet all requirements. The Department of History grants advanced placement in accordance with the University policy as explained on p. 255 of this catalog.

### Requirements for the Liberal Arts Major in History

Admission to major standing requires successful completion of any three history courses (12 credits), two semesters of foreign language study (8 credits), and acceptance by the Department of History. Completing the major requires eight departmental courses (32 credits) 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. For details on the language requirement for this major, see pp. 53-54 of this catalog.

### Requirements for the History Major with Area Studies Concentration

Admission to major standing requires successful completion of any three history courses (12 credits), two semesters of foreign language study (8 credits), acceptance by the Department of History, and concurrent acceptance by the Area Studies Committee. Completing the major requires six history courses (24 credits) including HST 141, 142. See pp. 177-82.

### Requirements for the Secondary Teaching Major in History

Admission to major standing requires successful completion of any three history courses (12 credits), two semesters of foreign

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language or linguistics study (8 credits), acceptance by the Department of History, and concurrent acceptance into the Teacher Education Program. Completing the major requires eight departmental courses (32 credits) 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, ED 245, ED 428, ED 455. Students with this major who wish to elect a social studies minor must confer with the Placement Office and/or the Office of the School of Education before planning their programs. For details on the language requirement for this major, see p. 54 of this catalog.

### Requirements for the Secondary Teaching Minor in History

Completing a teaching minor in history (for all majors except social studies) 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 064, UC 066, or a Senior Colloquium in an appropriate area. For students majoring in social studies the teaching minor requires 20 credits in Department of History courses including HST 214, 215. 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  
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

#### Semester 2

Freshman Exploratory  
HST 142  
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 Exploratories may be used by English minors as substitutes for 8 credits of the Distribution Requirements.

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 in both Fall and Winter Semesters, 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.

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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 (4 credits each)**

An integrated series of courses offering an introduction to the chief epochs of European history from about A.D. 500 to the present. Emphasis throughout is upon critical analysis of the basic economic, social, and political context of the successive transformations of Europe from early medieval times to the contemporary scene. HST 141 (Europe, 500-1715) is a survey of the Middle Ages, Renaissance, Reformation, and the Early Modern period through the era of Louis XIV.

HST 142 (Europe, 1715-present) is a survey of European history from the Enlightenment period to the modern age of industrialism, nationalism, and global conflicts. Open to freshmen: either course satisfies the Western History and Philosophy Distribution Requirement.

### **HST 214, 215 Introduction to American History (4 credits each)**

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

HST 214 is a survey of the 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 234, 235 History of England and British Expansion (4 credits each)**

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, and Britain's role in the world politics of the twentieth century.

### **HST 251, 252 Introduction to Russian History (4 credits each)**

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 1855.

HST 252 is an analysis of the history of the decline of the Russian monarchy and the rise of the Soviet state, from 1855 to the present.

### **HST 261, 262 Introduction to Latin American History (4 credits each)**

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

HST 261 (Latin America to 1825) is a general survey of pre-Columbian and colonial

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Latin America, stressing the Hispanization of the society, its socio-economic institutions, the influence of the Enlightenment, and the achievement of political independence. HST 262 (Latin America, 1825-present) is a study of the national period in Latin America, highlighting the problems of instability, the growth of industrialization and rise of the middle sectors, the emergence of nationalism and militarism, and the roots of social revolutionary ferment.

### **HST 286, 287 Introduction to the History (4 credits each) of Tropical Africa**

An integrated series of courses offering an introduction to the history of tropical Africa from the Middle Ages to the present.

HST 286 is an introduction to the development of religious and political systems in selected areas of tropical Africa, from the Middle Ages to the mid-nineteenth century. HST 287 deals with the problems of social change in colonial and contemporary Africa. Urbanization, rural development, and political mobilization are examined in both general and specific terms.

### **HST 291, 292 History of the Afro-American (4 credits each) People**

A study of the Afro-American experience. Prime emphasis is placed upon institutional, intellectual, and cultural developments within the Afro-American community. The context in which such developments occur—the political, economic, and social status of Afro-Americans—is given special notice.

HST 291 surveys the Afro-American experience from colonial times through the Civil War period.

HST 292 surveys the post-Civil War experience of the Afro-American people.

### **HST 308 History of Colonial Society, 1607-1750 (4 credits)**

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, (4 credits) 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 (4 credits) 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 (4 credits)**

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, (4 credits) 1850-1876**

The origins of secession, wartime problems of the Union and the Confederacy,

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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, 1876-1900 (4 credits)**

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, 1900-1928 (4 credits)**

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

Prerequisite: HST 215.

### **HST 315 American History since 1928 (4 credits)**

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

Prerequisite: HST 215.

### **HST 316, 317 American Intellectual History (4 credits each)**

HST 316 surveys the intellectual and cultural history of the American people from the colonial period to the Civil War.

Prerequisite: HST 214.

HST 317 surveys major intellectual and cultural trends in the United States from the Civil War to the present.

Prerequisite: HST 215.

### **HST 318 Topics in American Social History (4 credits)**

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 320, 321 U.S. Diplomatic History (4 credits each)**

HST 320 is a study of the origins, formulation, and development of American foreign policy and diplomacy from 1775 to the Spanish-American War. Topics to be studied include Revolutionary War diplomacy, neutrality and isolationism, the Monroe Doctrine, Manifest Destiny, and the Civil War.

Prerequisite: HST 214.

HST 321 is a study of American foreign policy and diplomacy since the Spanish-American War. Topics to be studied include American imperialism, Caribbean and Far Eastern policies, American involvement in two world wars and the Cold War, and nuclear diplomacy.

Prerequisite: HST 215.

### **HST 322 The Social History of American Education (4 credits)**

Education and American social and cultural life from the colonial period to the present. Education is defined to include the educational work of the family, church, and press, as well as that of the schools.

Prerequisite: HST 215.

### **HST 323 Advanced Study in Afro-American History (4 credits)**

Group reading and discussion combined with independent research. Topics discussed will vary but include such subjects as the nature and scope of Afro-American history,

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bibliographical materials, the history of Afro-American history and the Afro-American intellectual, as well as research topics chosen by students.

Prerequisite: HST 291 or HST 292.

### **HST 324 The Ancient Historians (4 credits)**

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 (4 credits)**

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 Italian Renaissance (4 credits)**

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

Prerequisite: HST 141.

### **HST 327 The Northern Renaissance (4 credits)**

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

Prerequisite: HST 141.

### **HST 328 Europe in the Sixteenth Century (4 credits)**

European society and the rise of the modern state. Selected topics in the history and historiography of the sixteenth century.

Prerequisite: HST 141.

### **HST 329 Early Modern Europe (4 credits)**

European society and the rise of the modern state. Selected topics in the history and historiography of the seventeenth century.

Prerequisite: HST 141.

### **HST 330 Medieval England (4 credits)**

A study of the constitutional, economic, social, and religious developments in England before 1500 with a survey of the European context in which these changes occurred.

Prerequisite: HST 141 or HST 234.

### **HST 331 Tudor England, 1485-1603 (4 credits)**

A study of the emergence of England as an international power, the religious Reformation, and changes in government, society, and culture.

Prerequisite: HST 141 or HST 234.

### **HST 332 Stuart England, 1603-1714 (4 credits)**

A study of the constitutional crises of the seventeenth century, the developments in economic, religious, social, and cultural life, and the beginnings of overseas expansion.

Prerequisite: HST 141 or HST 234.

### **HST 334 Victorian and Edwardian England (4 credits)**

The political, cultural, and intellectual life of England from 1837 to the outbreak of World War I.

Prerequisite: HST 142 or HST 234 or HST 235.

### **HST 335 Twentieth Century Britain (4 credits)**

The British adjustment to global wars, the later industrial revolution, mass democracy,

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and social change.

Prerequisite: HST 142 or HST 234 or HST 235.

**HST 337 Hellenic Greece (4 credits)**

Greek history from the Bronze Age to the Peloponnesian War. Identical with CLS 337.

**HST 338 Hellenistic Greece (4 credits)**

Greek history from Alexander the Great to the Roman period. Identical with CLS 338.

**HST 339 Republican Rome (4 credits)**

Roman history from the regal period to the end of the Republic. Identical with CLS 339.

**HST 340 Imperial Rome (4 credits)**

Roman history from the principate of Augustus to the fall of the western empire. Identical with CLS 340.

**HST 341 Europe since 1914 (4 credits)**

Analysis of Europe in world perspective since World War I.

**HST 342 The Origins of Modern Germany (4 credits)**

The ancient and medieval roots of German civilization, the political fortunes of the Holy Roman Empire and of its member states, the development of the concept of German nationality, and the rise of the German nation-state in the nineteenth century.

**HST 343 Germany since 1870 (4 credits)**

The political history of the German nation-state, concentrating on constitutional and partisan developments and their social context.

**HST 344 Nineteenth Century Radicalism (4 credits)**

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

**HST 345 France since 1789 (4 credits)**

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 (4 credits)**

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 (4 credits)**

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 (4 credits)**

A study of the political, social, and cultural development of Russia to Peter the Great. Prerequisite: HST 251 or HST 252.

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### **HST 353 Imperial Russia (4 credits)**

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

Prerequisite: HST 251 or HST 252.

### **HST 354 Soviet Russia (4 credits)**

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

Prerequisite: HST 251 or HST 252.

### **HST 355 Russian Intellectual History (4 credits)**

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 (4 credits)**

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 366 Slavery and Race Relations in the New World (4 credits)**

A comparative approach to the study of Negro slavery in North America, Latin America, and the Caribbean. Also a comparative approach to the present state of race relations in each of these three areas.

### **HST 370 China: Beginnings to Mid-T'ang, ca. 750 (4 credits)**

A study of China's prehistoric and classical foundations, of the first phase of imperial unification (Ch'in-Han, B.C. 221-A.D. 220), of the Han intellectual and state synthesis, and of the aftermath of Han collapse. Special attention will be given to the effects of Buddhist, foreign, and heterodox native influences in the subsequent development of the T'ang (618-907) cosmopolitan universal state.

Prerequisite: UC 062.

### **HST 371 China: Mid-T'ang to the Peak of Manchu Power, ca. 1800 (4 credits)**

A study of institutional, intellectual, and aesthetic responses to the failure of T'ang cosmopolitanism, and of the elaboration of gentry economic controls, neo-Confucian orthodoxy, and the literati ethos. Attention will also be given to Chinese accommodations to the problems of foreign encroachment and foreign rule.

Prerequisite: UC 062.

### **HST 373 Nineteenth Century China (4 credits)**

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 (4 credits)**

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.

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- HST 377 Japan to 1800 (4 credits)**  
An examination of Japanese history from the pre-Buddhist period to the Tokugawas, with discussion of cultural and intellectual developments.
- HST 378 Japan since 1800 (4 credits)**  
An examination of modern Japanese history emphasizing Japan's response to the West, with special study comparing the Japanese and Chinese experiences.
- HST 382 Mughal and British India, 1526-1860 (4 credits)**  
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 (4 credits)**  
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 386 African Socialism (4 credits)**  
An examination of the ideologies, tactics, and techniques of various recent socialist revolutions in Africa; and an attempt to relate the aims of African socialism to traditional and colonial Africa, as well as to other forms of socialist thought and practice.  
Prerequisite: UC 064 or HST 286 or HST 287.
- HST 387 Northwestern Africa (the Maghrib) since 1830 (4 credits)**  
The Maghrib from the time of the French occupation to the present.
- HST 391 Directed Readings in History (4 credits)**  
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 (4 credits)**  
Reading and research in selected topics.  
Prerequisites: HST 214, 215.
- HST 431 Senior Seminar in British History (4 credits)**  
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 (4 credits)**  
Reading and research in selected topics.  
Prerequisites: Two courses in European history.
- HST 481 Seminar in Historiography (4 credits)**  
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 (4 or 8 credits)**  
A program of directed individual research designed for advanced history majors. May be taken for one or more semesters.  
Prerequisite: Permission of the Department.

## DEPARTMENT OF MATHEMATICS

Professors:	G. Philip Johnson, Chairman Louis R. Bragg John W. Dettman George F. Feeman William C. Hoffman James H. McKay
Associate Professors:	Harvey J. Arnold Donald G. Malm Harvey A. Smith Beauregard Stubblefield
Assistant Professors:	Michael Brand J. Curtis Chipman Ronald A. DeVore Jon Froemke Louis J. Nachman Irwin Schochetman Steven J. Takiff Yel Chiang Wu

The Department of Mathematics offers programs of study leading to the degrees of Bachelor of Arts with liberal arts 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.

Students electing the liberal arts major in mathematics or the secondary teaching major in mathematics may complete their general education requirement in the University Course Program or in Allport College, New College, or Charter College. They should make their choice in consultation with their departmental adviser and with the head of their chosen college.

A student with strong interest and ability in mathematics should consider taking MTH 190, 191, 290, and 291. (MTH 190 and 191 are for freshmen; MTH 290 and 291 are for sophomores.) These courses, which are to be taken concurrently with calculus, are designed to provide the student with an opportunity to experience mathematics on a more sophisticated level than is usually found in freshman and sophomore mathematics courses. The courses

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are independent of each other; a student may take any one of them at the appropriate level without having taken any of the preceding ones.

### Requirements for the Liberal Arts Major in Mathematics

Nine courses (36 credits) in mathematics are required, among which must be MTH 351 or MTH 451 and MTH 375 or MTH 475. (MTH 121, 122, 125, 134, 185, 186, 226, 314, 315, 316, and 322 may not be used to satisfy this requirement.) Two science courses (8 credits) are required; these are to be taken from the same department. Four courses (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 Distribution Requirement in science.)

Students planning to do graduate work in mathematics should take MTH 451 and MTH 475 in preference to MTH 351 and MTH 375. In addition, they should take MTH 452, 461, 476, and as many other mathematics courses, including courses at the 500 level, as their programs permit.

Students planning an actuarial career, graduate work in statistics or computer science, or mathematical work in government or industry should include in their programs MTH 325 and MTH 335 and several courses chosen from among MTH 326, 336, 352, 425, 431, 435, and 461.

Admission to major standing in mathematics requires four courses, among which MTH 255 must be included.

### Requirements for the Secondary Teaching Major in Mathematics

Nine courses (36 credits) in mathematics are required. These must consist of MTH 154, 155, 254, 255, 351 or 451, 375 or 475, 361, at least one of MTH 325 or 335, and one appropriate additional course numbered 325 or above. The two Freshman Exploratories and the Senior Colloquium may, if properly selected, substitute for three of the Distribution Requirements; appropriate selections should be determined in consultation with the student's academic adviser. Two courses in science (8 credits) are required. A minor of 5 or 6 courses (20 or 24 credits) is also required. If the minor is taken in one department, five courses (20 credits) are required; if the minor is taken in an area, such as science or

social science, six courses (24 credits) are required. (See p. 212 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 Distribution Requirement in science. Finally, four courses (20 credits) in education (ED 244, 245, 428, and 455) are required. Admission to major standing requires four courses (16 credits) in mathematics, including MTH 255, and concurrent acceptance into the Teacher Education Program.

### Requirements for the Secondary Teaching Minor in Mathematics

Five courses (20 credits) 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, 336, 351, 361, and 375. (MTH 121, 122, 125, 134, 185, 186, 314, 315, 316, and 322 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.

Students should realize that while the Department will make every attempt to adhere to the scheduling of courses as presented in this catalog, special circumstances may occasionally necessitate changes. They should further realize that a number of the courses will be offered at times other than those indicated including, in particular, the Spring and Summer Sessions.

### **MTH 121-122    Introductory Mathematics for (4 credits each) the Life and Social Sciences**

Elementary set theory, number systems, functions, linear systems, linear programming, matrices, and the basic concepts, theorems, and applications of calculus. MTH 121

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is offered in the Fall Semester; MTH 122 is offered in the Winter Semester.

Prerequisites: Three years of high school mathematics.

### **MTH 125 Introduction to Probability and Statistics (4 credits)**

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

Prerequisites: Three years of high school mathematics.

### **MTH 134 Elementary Functions (4 credits)**

A study of linear, trigonometric, exponential, and logarithmic functions, polynomials, linear equations, determinants, and selected topics from analytic geometry. Offered in the Fall Semester.

Prerequisites: Three years of high school mathematics.

### **MTH 154-155 Calculus (4 credits each)**

A comprehensive study of analytic geometry, limits, differentiation and integration for functions of one real variable. Each is offered in the Fall and Winter Semesters; MTH 155 is also offered in the Spring Session.

Prerequisite: MTH 134 or satisfactory performance on proficiency examination.

### **MTH 185-186 Mathematics—an Exploration into Undergraduate Topics (4 credits each)**

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 190 Topics in Mathematics (1 credit)**

Intended to provide the superior student with an introduction to the type of abstract reasoning used in advanced courses in mathematics. The course will be organized around one or more topics chosen from various areas of mathematics. Enrollment is limited to freshmen. Offered in the Fall Semester.

Prerequisite: Permission of the Department. MTH 154, 155, 254, or 255 must be taken concurrently.

### **MTH 191 Topics in Mathematics (1 credit)**

Similar to MTH 190. Enrollment limited to freshmen. Offered in the Winter Semester.

Prerequisite: Permission of the Department. MTH 155, 254, or 255 must be taken concurrently.

### **MTH 226 Applied Statistics (4 credits)**

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. Offered in the Fall Semester.

Prerequisite: MTH 155.

### **MTH 254 Intermediate Calculus and Linear Algebra (4 credits)**

An introduction to linear analysis. Vectors, linear equations, linear transformations,

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matrices, determinants, eigenvalues, linear differential equations. Offered in the Fall and Winter Semesters.

Prerequisite: MTH 155.

### **MTH 255 Intermediate Calculus (4 credits)**

A study of infinite series, multiple integration, differential calculus of scalar and vector fields, line and surface integrals. Offered in the Fall and Winter Semesters.

Prerequisite: MTH 254.

### **MTH 290 Topics in Mathematics (1 credit)**

Similar to MTH 190. Enrollment limited to sophomores. Offered in the Fall Semester.

Prerequisite: Permission of the Department. MTH 254 or 255 must be taken concurrently.

### **MTH 291 Topics in Mathematics (1 credit)**

Similar to MTH 190. Enrollment limited to sophomores. Offered in the Winter Semester.

Prerequisite: Permission of the Department. MTH 255 must be taken concurrently.

### **MTH 314 Structure of Number Systems (4 credits)**

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. Offered in the Fall Semester.

Prerequisites: Two years of high school mathematics.

### **MTH 315 Algebraic Structures (4 credits)**

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. Offered in the Winter Semester.

Prerequisite: MTH 314.

### **MTH 316 Topics in Geometry (4 credits)**

An informal approach to geometry including topics selected from Euclidean geometry and transformation geometry with emphasis on ruler and compass constructions and the concept of symmetry. Enrollment is limited to majors in elementary education. Not open to freshmen. Offered in the Spring Session and in the Fall or Winter Semester.

Prerequisite: MTH 314.

### **MTH 322 Mathematical Models in the Social Sciences (4 credits)**

Formulation in mathematical terms of phenomena from the social sciences, solution of the resulting mathematical problems, and the interpretation of results. Models will be drawn from economic theory, ecology, theoretical sociology, and management science.

Prerequisite: MTH 122 or 154 or permission of the Department.

### **MTH 325-326 Introduction to Mathematical Statistics (4 credits each)**

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

Prerequisite: MTH 255.

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### **MTH 335-336 Introduction to Numerical Analysis (4 credits each)**

An introduction to mathematical methods appropriate to computer work. Topics treated include interpolation, approximation, quadrature, solution of differential equations, and matrix computation.

Prerequisites: MTH 254 for 335; MTH 255 for 336.

### **MTH 351 Introduction to Analysis (4 credits)**

A development of the properties of functions of one real variable, including a study of sequences, limits, continuity, differentiation, and integration. Offered in the Fall Semester.

Prerequisite: MTH 254.

### **MTH 352 Complex Variables (4 credits)**

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

Prerequisite: MTH 255.

### **MTH 361 Geometric Structures (4 credits)**

A study of topics from Euclidean geometry, projective geometry, non-Euclidean geometry, and transformation geometry. Offered in the Fall Semester during the academic year 1970-71 and in the Winter Semester during the academic year 1971-72.

Prerequisite: MTH 254.

### **MTH 372 Number Theory (4 credits)**

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

Prerequisite: MTH 254.

### **MTH 375 Introduction to Abstract Algebra (4 credits)**

An introduction to the basic concepts of abstract algebra, including groups, rings, and fields. Offered in the Winter Semester.

Prerequisite: MTH 254.

### **MTH 405 Special Topics (2 or 4 credits)**

Advanced study of some topic in mathematics. May be taken more than once.

Prerequisite: Permission of the Department.

### **MTH 415 Foundations of Mathematics (4 credits)**

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 MTH 451 or permission of the Department.

### **MTH 416 Concepts of Geometry (4 credits)**

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 (4 credits)**

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 Department.

### **MTH 431 Methods of Mathematical Physics (4 credits)**

Series solution of ordinary differential equations, special functions, separation of

## ARTS AND SCIENCES

variables in various coordinate systems, boundary value problems, eigenvalue problems, Fourier series and integrals, Laplace transforms. Offered in the Winter Semester.  
Prerequisite: MTH 255.

### **MTH 435 Introduction to Mathematical Science (4 credits)**

Model-building in mathematics as a logical process and as the formulation of phenomena in mathematical terms. The study of general mathematical structures for mathematical science; mathematical modelling in the physical, social, and life sciences; the role of probability and statistics in model-building.  
Prerequisite: MTH 255.

### **MTH 451-452 Analysis (4 credits each)**

An introductory course in real analysis. Topics covered include the topology of  $\mathbb{R}^n$ , limits, continuity, differentiation, Riemann integration, uniform continuity and convergence, Riemann-Stieltjes integration, and differentiation and integration in  $\mathbb{R}^n$ . MTH 451 is offered in the Fall Semester; MTH 452 is offered in the Winter Semester.  
Prerequisite: MTH 255.

### **MTH 461 General Topology (4 credits)**

A study of topological spaces and continuous functions. Separation and countability properties, connectedness, compactness, and local properties will be covered.  
Prerequisite: MTH 351 or MTH 451 or permission of the Department.

### **MTH 465 Differential Geometry (4 credits)**

Theory of curves and surfaces in Euclidean space with an introduction to the theory of matrix Lie groups.  
Prerequisite: MTH 255.

### **MTH 475-476 Abstract Algebra (4 credits each)**

Algebra of sets and mappings, groups and homomorphisms, rings and ideals, factorization and divisibility, vector spaces, linear transformations, fields and field extensions. MTH 475 is offered in the Fall Semester; MTH 476 is offered in the Winter Semester.  
Prerequisite: MTH 254.

### **MTH 490 Independent Study (2 or 4 credits)**

Library research on some mathematical topic.  
Prerequisite: Permission of the Department.

### **MTH 497 Apprentice College Teaching (2 or 4 credits)**

Open to any well-qualified upperclassman who obtains consent of a faculty member to assist in presenting a regular college course. The apprentice should be capable of assuming limited classroom teaching duties.  
Prerequisite: Permission of the instructor involved.

### **MTH 511 Mathematics for the Elementary School Teacher I (4 credits)**

Study of the structure of the real number system, elementary number theory, introduction to abstract mathematical structures.  
Prerequisite: Permission of the Department.

### **MTH 512 Mathematics for the Elementary School Teacher II (4 credits)**

Study of set theory, logic, probability theory, statistics, and topics in geometry.  
Prerequisite: Permission of the Department.

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### **MTH 513 Topics in Elementary School Mathematics (4 credits)**

Topics in elementary mathematics selected in keeping with the latest trends in elementary school curriculum reform. Methods of teaching these topics are studied simultaneously with the topics themselves for the purpose of creating appropriate curriculum and testing materials.

Prerequisites: MTH 314, 315, and 316 or MTH 511 and 512 or permission of the Department.

### **MTH 514-515 Concepts in Abstract Algebra (4 credits each)**

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 (4 credits each)**

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 525-526 Probability and Statistics (4 credits each)**

Combinatorial analysis, random variables, central limit theorem, recurrent events, distribution theory, sampling, statistical estimation, hypothesis testing, regression analysis, analysis of variance, and applications.

Prerequisite: Permission of the Department.

### **MTH 531 Mathematical Methods in Engineering I (4 credits)**

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 (4 credits)**

Functions of several variables, vector field theory, partial differential equations, boundary value problems, Fourier series, and Fourier integrals.

Prerequisite: Permission of the Department.

### **MTH 541-542 Applied Mathematics (4 credits each)**

Vector spaces and vector fields; systems of ordinary differential equations; qualitative theory of ordinary differential equations; partial differential equations of mathematical physics and of the life sciences; mathematical models in physical, life, and social sciences; scientific theories and the role of probability and statistical inference.

Prerequisites: MTH 451-452.

### **MTH 551-552 Real Analysis (4 credits each)**

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

Prerequisite: MTH 452.

### **MTH 555-556 Complex Analysis (4 credits each)**

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

Prerequisite: MTH 452.

### **MTH 561-562 Topology (4 credits each)**

MTH 561 is an introduction to algebraic topology. Topics covered include elementary

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homotopy and homology theory. MTH 562 will cover various topics in algebraic and general topology at the discretion of the instructor.

Prerequisites: MTH 476 and MTH 461.

### **MTH 565 Topological Algebraic Structures (4 credits)**

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, Lie algebras, Banach spaces, or Banach algebras.

Prerequisite: Permission of the Department.

### **MTH 571-572 Algebra (4 credits each)**

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

Prerequisite: MTH 476.

### **MTH 590 Directed Reading and Research (2, 4, 6, or 8 credits)**

Prerequisite: Permission of the Department.

## ARTS AND SCIENCES

### DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

- Professors:** Robert E. Simmons (German), Chairman  
Carmine R. Linsalata (Spanish)  
Richard A. Mazzara (French)  
Jack R. Moeller (German), Assistant Chairman  
Norman Susskind (French), Assistant Chairman  
Amitendranath Tagore (Chinese)
- Associate Professors:** John W. Barthel (German)  
William C. Bryant (Spanish)  
Dolores M. Burdick (French)  
Alfred J. DuBruck (French)  
Dmytro Ijewliw (Russian)  
Don R. Iodice (French)  
Helen Kovach (Russian)
- Assistant Professors:** Svetlana Dyer (Chinese)  
Renate Gerulaitis (German)  
Helene Lerch (German)  
John Marney (Chinese)  
Luis A. Vargas (Spanish)
- Instructors:** Maurice J. Beznos (French)  
Carlo Coppola (Hindi-Urdu)  
Glafyra R. Ennis (Spanish)  
Jerry M. Freeman (Russian)  
Reiner M. Guertler (German)  
Kathleen V. Kehoe (French)  
John A. McCarthy (German)  
Monique B. Pitts (French)  
Leslie S. Radcliffe (French)  
David Saint-Amour (French)
- Special Instructors:** Cordell W. Black (French)  
Lee M. Corrigan (Russian)  
Anna R. Massacesi (Spanish)  
Norbert Noeldechen (German)  
Shih-Chen Peng (Chinese)  
Lieselotte T. Schachner (German)  
Carmen M. Urla (Spanish)
- Lecturer:** Adrienne H. Bodie (French)

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 or her 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 pos-

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sibilities 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 or her field of interest or to his or her previous language training. If a student wishes to increase his or her proficiency in a language studied in high school, he or she should continue with it. If, however, he or she wishes to become a specialist in a language in great demand, but not widely taught in high schools, such as Chinese or Russian, he or she 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.

### **Proficiency Examinations and Advanced Placement**

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.

### **General Education Requirement**

Majors in all programs of the Department of Modern Languages and Literatures may satisfy the general education requirement in the University Course Program or in the programs of Allport College, Charter College, or New College.

### **Departmental Programs**

The Department of Modern Languages and Literatures offers programs of study leading to the degree of Bachelor of Arts with the following majors: the liberal arts major in a modern language; the liberal arts major in a modern language with a concentration in linguistics; the liberal arts majors in Chinese language and

civilization and in Latin American languages and civilization; and the secondary teaching major in a modern language. The Department also offers a secondary teaching minor in a modern language and a modern language concentration for the elementary teacher.

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

The requirement is nine courses (36 credits) in the chosen language and its literature beyond 215. Ordinarily these include two sequences, Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences may be taken concurrently), and five advanced courses at the 300-499 level. All majors (except Chinese and Russian) must complete a departmental reading list and participate in a senior level course (485), which is based upon materials from the reading list. This course 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.

Admission to major standing requires completion of 56 credits, including four courses in a single foreign language: that is, courses through 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 a Modern Language with a Concentration in Linguistics**

A modified major in a modern language with a concentration in linguistics is available for interested students. For concentrations in French and linguistics, German and linguistics, Russian and linguistics, and Spanish and linguistics, see pp. 182-87.

### **Requirements for the Liberal Arts Major in Chinese Language and Civilization**

The requirement in Chinese for this major is eight courses (36 credits), ordinarily CHE 114-115, 214-215, and four others selected

## **ARTS AND SCIENCES**

from departmental offerings in consultation with an adviser. Five China area courses (20 credits) beyond UC 062 are also required. For more information on this program, see the programs offered by the Language and Area Center for East Asia on pp. 178-79 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 Liberal Arts Major in Latin American Languages and Civilization**

The requirement in Spanish for this major is six courses (24 credits) beyond SPN 214-215 selected from departmental offerings in consultation with an adviser. Five additional courses (20 credits), focused on the Latin American area and chosen from appropriate offerings from other departments within the College of Arts and Sciences, are also required.

An alternative language requirement for this major is four courses (16 credits) in Spanish beyond SPN 214-215, and three courses (15 credits) in Brazilian Portuguese language and literature.

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 (32 credits) in the chosen language and its literature (French, German, Russian, Spanish) beyond 215. (No teaching major is offered in Chinese.) Ordinarily these include two sequences, Composition and Conversation 261-262 and Introduction to Literature 271, 272 (both sequences may be taken concurrently), 361, 365, and two courses at the 400-499 level. All majors (except Russian) must complete a departmental reading list and participate in a senior level course (485), which is based upon materials from the reading list. This course is ordinarily scheduled during the student's eighth semester. In addition, 20 credits in education are required: ED 244, 245, ED 428, and ED 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 (16 credits) 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. 212-17.

### Liberal Arts Major in Modern Language<sup>1</sup>

(A Typical Program)

#### Semester 1

Freshman Exploratory  
LANG 214  
Distribution Requirement  
Distribution Requirement

#### Semester 3

LANG 261  
LANG 271  
Elective  
Distribution Requirement

#### Semester 5

Major  
Elective  
Elective  
Distribution Requirement

#### Semester 7

Major  
Elective  
Elective  
Distribution Requirement

#### Semester 2

Freshman Exploratory  
LANG 215  
Distribution Requirement  
Distribution Requirement

#### Semester 4

LANG 262  
LANG 272  
Elective  
Distribution Requirement

#### Semester 6

Major  
Elective  
Elective  
Distribution Requirement

#### Semester 8

LANG 485  
Major  
Elective  
Senior Colloquium

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### 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  
Elective  
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

LANG 365  
Elective  
Elective  
Distribution Requirement

#### Semester 8

LANG 485  
ED 455

<sup>1</sup>It is desirable that prospective majors have completed, wherever possible, at least two years of a single language in high school and begin University language work at the second-year level.

### **Chinese Language and Literature**

#### **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 (4 credits)**

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

Prerequisite: CHE 215 or permission of the instructor.

#### **CHE 320 Readings in Chinese Newspapers (4 credits)**

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 (4 credits)**

Studies in documentary style of Chinese, selected mainly from writings of twentieth

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century political leaders of China.

Prerequisite: CHE 215 or permission of the instructor.

### **CHE 340 Twentieth Century Chinese Literature (4 credits)**

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

Prerequisite: CHE 215 or permission of the instructor.

### **CHE 410 Traditional Chinese Fiction and Drama (4 credits)**

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

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

### **CHE 420 Chinese Classics and Philosophers (4 credits)**

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 (4 credits)**

Literary texts of ancient Chinese historiography.

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

### **CHE 440 Chinese Poetry (4 credits)**

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 (2, 4, or 8 credits)**

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

Prerequisites: Major standing and permission of the instructor.

## **French Language and Literature**

### **FRH 101-102 Elementary Reading in French (4 credits each)**

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 (4 credits each)**

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.

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### **FRH 251 French Civilization (4 credits)**

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 (4 credits each)**

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 (4 credits each)**

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 (4 credits each)**

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 287 Studies in Black Literature Written in French (4 credits)**

Selections from black authors in French-speaking Africa and the West Indies. Study of the expressions of African culture from the continent (North Africa, West Africa), as well as that literature developing in these different environments: Martinique, Haiti, Guadeloupe. Readings, lectures, discussions in English. Open to French majors as elective only; does not carry credit toward departmental major.

Prerequisite: Sophomore standing or permission of the instructor.

### **FRH 361 Advanced Composition and Conversation (4 credits)**

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 (4 credits)**

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 (4 credits)**

Literary, intellectual, and linguistic trends as seen in selected works of principal authors

## ARTS AND SCIENCES

of this period: Rabelais, Marot, Montaigne, Ronsard, and others. Conducted in French.  
Prerequisite: FRH 272.

### **FRH 421, 422      Seventeenth Century French Literature** **(4 credits each)**

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** **(4 credits each)**

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** **(4 credits each)**

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 aesthetics 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**      **(4 credits)**

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**      **(4 credits)**

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

Prerequisite: FRH 272.

### **FRH 453      Modern French Poetry**      **(4 credits)**

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

Prerequisite: FRH 272.

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### **FRH 480 Seminar in French Literature (4 credits)**

Study of individual authors, selected themes, or critical problems.  
Prerequisites: Major standing in French and permission of the instructor.

### **FRH 485 Senior Tutorial Readings (4 credits)**

Readings, lectures, discussions based on departmental reading list for French majors.  
Required of senior students, not open to others.  
Prerequisite: Major standing in French and permission of the Department.

### **FRH 490 Independent Reading and Research (2, 4, or 8 credits)**

Directed individual research and reading designed for advanced French majors.  
May be taken for one or more semesters.  
Prerequisite: Permission of the Department.

### **FRH 510 French Stylistics (4 credits)**

Theory and practice of French stylistics.  
Prerequisite: FRH 361 (or equivalent) or permission of the Department.

### **FRH 565 Applied Linguistics of French (4 credits)**

For advanced students, 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 (4 credits)**

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 (4 credits each)**

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 (4 credits each)**

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.

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### **GRM 261-262 German Composition and Conversation (4 credits each)**

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 (4 credits each)**

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 (4 credits)**

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 (4 credits)**

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 (4 credits)**

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* (4 credits each)**

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 (4 credits)**

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.

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### **GRM 434 Naturalism, Impressionism, Expressionism (4 credits)**

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 (4 credits)**

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.  
Prerequisite: GRM 272.

### **GRM 480 Germanistisches Proseminar (4 credits)**

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 485 Senior Tutorial Readings (4 credits)**

Readings, lectures, discussions based on departmental reading list for German majors. Required of senior students, not open to others.  
Prerequisite: Major standing in German and permission of the Department.

### **GRM 490 Independent Reading and Research (2, 4, or 8 credits)**

Directed individual research and reading designed for advanced German majors. May be taken for one or more semesters.  
Prerequisite: Permission of the Department.

## ***Hindu-Urdu Language***

### **HIUR 114-115 First Year Hindi-Urdu (5 credits each)**

An introduction to the basic structure of both Hindi and Urdu with an emphasis on both conversation and reading. The course will stress the core vocabulary common to both languages; in addition, both Devanagāri and Persio-Arabic scripts will be used interchangeably.

### **HIN 214-215 Second Year Hindi (5 credits each)**

A continuation of HIUR 114-115, with an emphasis on the literary and spoken language of Hindi.

### **URD 214-215 Second Year Urdu (5 credits each)**

A continuation of HIUR 114-115, with an emphasis on the literary and spoken language of Urdu.

## ***Portuguese Language***

### **POR 114-115 First Year Portuguese (5 credits each)**

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

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### **POR 214 Intermediate Portuguese (5 credits)**

Devoted to aural-oral adaptation. More intensive practice in developing speaking and writing skills combined with reading of literary and cultural texts. Brazilian Portuguese is emphasized.

Prerequisite: POR 114-115, or departmental testing and interview.

### **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 (4 credits each)**

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 (4 credits each)**

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 (4 credits each)**

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. Open to Russian majors as elective only; does not carry credit toward departmental major.

Prerequisite: Sophomore standing or permission of the instructor.

#### **RUS 361-362 Advanced Composition and Conversation (4 credits each)**

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 (4 credits)**

An introduction to modern linguistic insights with particular reference to their ap-

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plication 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 the instructor.

### **RUS 426 Russian Poetry of the First Half of the Nineteenth Century (4 credits)**

Major Russian poets from the first part of the nineteenth century: Zhukovsky, Batyushkov, Delvig, Baratynsky, and Yazykov, with emphasis on Pushkin. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 427 Russian Poetry of the Second Half of the Nineteenth Century (4 credits)**

Poetry of the second part of the nineteenth century: Tyutchev, Fet, A. Tolstoy, and Nekrasov, with special emphasis on Lermontov and his influence. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 434 Russian Realism (4 credits)**

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

Prerequisite: RUS 272.

### **RUS 435 Chekhov and His Time (4 credits)**

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

Prerequisite: RUS 272.

### **RUS 441 Tolstoy (4 credits)**

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 (4 credits)**

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

Prerequisite: RUS 272.

### **RUS 451 Modern Russian Prose (4 credits)**

Selected prose works from the beginning of the twentieth century. Included are works of pre-revolutionary, Soviet, and emigré authors. Conducted in Russian and offered in alternate years.

Prerequisite: RUS 272.

### **RUS 480 Seminar in Russian Literature (4 credits)**

Intensive investigation of some aspect of Russian literature.

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

### **RUS 490 Independent Reading and Research (2, 4, or 8 credits)**

Directed individual research and reading designed for advanced Russian majors. May be taken for one or more semesters.

Prerequisite: Permission of the Department.

**Spanish Language and Literature****SPN 101-102 Elementary Reading in Spanish (4 credits each)**

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 (4 credits each)**

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 (4 credits each)**

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 grammar and 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 (4 credits each)**

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 (4 credits each)**

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 (4 credits)**

Intensive oral work designed to perfect conversational ability, with emphasis on

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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 those planning to teach at the elementary level. Required for secondary teaching majors.  
Prerequisite: SPN 262.

### **SPN 365 Applied Linguistics of Spanish (4 credits)**

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. May not be taken to fulfill requirements for the liberal arts major, except by majors with a concentration in linguistics.  
Prerequisite: SPN 262 or permission of the instructor.

### **SPN 401 Literature of the Spanish Middle Ages and Renaissance (4 credits)**

Masterworks of the period.  
Prerequisite: SPN 272.

### **SPN 412 The Quixote (4 credits)**

Detailed study of Cervantes' masterwork.  
Prerequisite: SPN 272.

### **SPN 424 The Golden Age (4 credits)**

Masterpieces of Spanish literature from 1500-1650.  
Prerequisite: SPN 272.

### **SPN 433 Spanish Literature of the Eighteenth and Nineteenth Centuries (4 credits)**

Masterworks of the period in peninsular literature.  
Prerequisite: SPN 272.

### **SPN 462 Spanish American Literature I (4 credits)**

Masterworks of Spanish American literature through the nineteenth century.  
Prerequisite: SPN 272.

### **SPN 463 Spanish American Literature II (4 credits)**

Masterworks of twentieth century Spanish American literature.  
Prerequisite: SPN 272.

### **SPN 472 Twentieth Century Spanish Literature (4 credits)**

Masterworks of the period in peninsular literature.  
Prerequisite: SPN 272.

### **SPN 476 Lyric Poetry (4 credits)**

Masterworks of Spanish lyric poetry. A detailed study of one poet will occupy the latter part of the course.  
Prerequisite: SPN 272.

### **SPN 480 Seminar in Spanish Literature (4 credits)**

Study of individual authors, selected themes, or critical problems.  
Prerequisites: Major standing in Spanish and permission of the instructor.

### **SPN 485 Senior Tutorial Readings (4 credits)**

Readings, lectures, discussions based on departmental reading list for Spanish majors.

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Required of senior students, not open to others.

Prerequisite: Major standing in Spanish and permission of the Department.

### **SPN 490 Independent Reading and Research** (2, 4, or 8 credits)

Directed individual research and reading designed for advanced Spanish majors. May be taken for one or more semesters.

Prerequisite: Permission of the Department.

### **SPN 499 Honors Course in Spanish** (4 credits)

An introduction to scholarly techniques as applied to a work, an author, or a genre. Admission by permission of the Department.

## **Swahili Language**

### **SWA 114-115 First Year Swahili** (5 credits each)

An introduction to the basic structure of Swahili with an emphasis on both conversation and reading.

### **SWA 214-215 Second Year Swahili** (5 credits each)

A continuation of SWA 114-115 with increasing emphasis on reading and composition. Prerequisite: SWA 114-115 or permission of the instructor.

### **SWA 270 Readings in Swahili** (4 or 8 credits)

Study of selected texts pertaining to different aspects of Swahili cultural life. May be conducted as a tutorial and may be repeated for credit.

Prerequisite: SWA 215 or permission of the instructor.

## **Modern Language**

### **ML 191-192 Tutorial in Foreign Languages** (4 credits each)

Instruction in the elements of a spoken or written foreign language such as Arabic, Bengali, Czech, Japanese, Sanskrit, Hausa, etc. for which no regular course sequence exists here.

May be repeated for credit in a different language each time.

### **ML 500 The Teaching of Modern Languages I** (4 credits)

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** (4 credits)

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: ED 428 (Teaching of the Major Field), ML 500, participation in an NDEA Institute, or permission of the Department.

## ARTS AND SCIENCES

### DEPARTMENT OF MUSIC

Professor:	Walter S. Collins
Associate Professors:	David Di Chiera, Chairman Raymond L. Allvin
Assistant Professors:	David Daniels John N. Dovaras Robert I. Facko Lyle E. Nordstrom
Instructor:	Clifford I. Pfeil
Special Instructor:	Alice Engram

The Department of Music offers three major programs leading to the degree of Bachelor of Arts: (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 various career opportunities associated with the literary aspects of 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.

#### Departmental Requirements for all Music Majors

Each major must satisfy the following 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. (2) Demonstration of a minor proficiency in some solo performing

medium. Teaching majors with an emphasis on instrumental music will take a minor proficiency comprised of the three instrumental technique courses, MUS 380, MUS 381, and MUS 382. (3) All students must appear in recital. The means of fulfilling this requirement will vary with the major chosen. Upon acceptance, students should request from the Department of Music a description of methods for satisfying this requirement. (4) Each student must pass a keyboard proficiency examination by the end of the sophomore year. The requirement may be satisfied by completing MUS 373 or MUS 374 with a grade of 2.0. A complete description of this requirement is available from the Department. All prospective music majors are urged to acquire as much keyboard facility as possible before entering the University. (5) 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. (6) Participation for seven semesters of credit (7 credits) in ensemble with a minimum of two semesters in each of two of the following categories: Category 1 — University Chorus, Oakland Singers; Category 2 — University Orchestra, Concert Band; Category 3 — Collegium Musicum, Opera Workshop; Category 4 — Accompanying. Piano majors must include Category 4. Music history majors must take a minimum of two credits in Collegium Musicum.

### **Requirements for the Liberal Arts Major in Music Theory and Composition**

Minimal course requirements beyond UC 049 or MUS 249 are 34 credits distributed as 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 in this program may complete their general education requirement in the University Course Program or in Allport College, 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.

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

Minimal course requirements beyond UC 049 or MUS 249 are

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34 credits distributed as 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. Music majors in this program may complete their general education requirement in the University Course Program or in Allport College, 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.

### Requirements for the Teaching Major in Music

Students in this major will normally be certified for both elementary and secondary teaching, and they must choose an emphasis in vocal or instrumental music. Minimal course requirements beyond UC 049 or MUS 249 are 26 credits distributed as MUS 211-212, MUS 311-312, MUS 321, 322, MUS 411-412, and two courses (4 credits) from the group MUS 401, MUS 402, MUS 403, and MUS 404; and 14 credits in applied music (8 in the major proficiency and 6 in the minor). Teaching majors with an emphasis in vocal music must take MUS 401 and MUS 403 and have a major or minor proficiency in voice. Teaching majors with an emphasis on instrumental music must take MUS 401 and MUS 404 with a major proficiency in an instrument and the minor proficiency to be comprised of the three instrumental technique courses, MUS 380, MUS 381, and MUS 382. The following education courses (20 credits) 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.

It should be noted that the University Course Program has been modified for students in the teaching major in music so that the two Freshman Exploratories and the Senior Colloquium can, if properly selected, substitute for three of the Distribution Requirements. For this major, these three courses should be chosen in the social sciences area. Appropriate selections should be determined in consultation with the academic adviser.

Students electing the teaching major in music may meet their general education requirement by participating in the University Course Program or by enrolling in Allport College, Charter College, or New College; students taking other options than the University Course Program, however, may find they will need more than eight semesters in which to complete requirements for the degree. Students should consult with a departmental adviser and with the head of their chosen college.

**Liberal Arts Major in Music**

(A Typical Program)

**Semester 1**

Freshman Exploratory  
 MUS 211  
 UC 049 or MUS 249  
 Foreign Language  
 Ensemble

**Semester 3**

MUS 311  
 MUS 321  
 Distribution Requirement  
 Foreign Language  
 Ensemble

**Semester 5**

MUS 411  
 Distribution Requirement  
 Distribution Requirement  
 Elective  
 Ensemble

**Semester 7**

MUS (490 or 492)  
 Distribution Requirement  
 Elective  
 Elective  
 Ensemble

**Semester 2**

Freshman Exploratory  
 MUS 212  
 Distribution Requirement  
 Foreign Language  
 Ensemble

**Semester 4**

MUS 312  
 MUS 322  
 Distribution Requirement  
 Foreign Language  
 Ensemble

**Semester 6**

MUS 412  
 Distribution Requirement  
 Distribution Requirement  
 Elective  
 Ensemble

**Semester 8**

MUS (491 or 493)  
 Senior Colloquium  
 Elective  
 Elective

**Teaching Major in Music**

(A Typical Program)

**Semester 1**

MUS 211  
 Freshman Exploratory  
 UC 049 or MUS 249  
 Foreign Language  
 Ensemble

**Semester 3**

MUS 311  
 MUS 321  
 ED 244  
 Distribution Requirement  
 Ensemble

**Semester 5**

MUS 411

**Semester 2**

MUS 212  
 Freshman Exploratory  
 UC 054  
 Foreign Language  
 Ensemble

**Semester 4**

MUS 312  
 MUS 322  
 ED 245  
 Distribution Requirement  
 Instrumental Methods or  
 Minor Proficiency  
 Ensemble

**Semester 6**

MUS 412

## ARTS AND SCIENCES

MUS 401  
Distribution Requirement  
Distribution Requirement  
Instrumental Methods or  
Minor Proficiency

Ensemble

**Semester 7**

MUS 403  
Senior Colloquium

Elective

Elective

Ensemble

MUS 404

Distribution Requirement  
Distribution Requirement  
Instrumental Methods or  
Minor Proficiency

Ensemble

**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, krummhorns, brass, and percussion) and various small ensembles combining voices and instruments.

**MUS 104 University Concert Band (1 credit)**

**MUS 105 Opera Workshop (1 credit)**

**MUS 106 University Orchestra (1 credit)**

**MUS 111 Beginning Musicianship (4 credits)**

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 (4 credits)**

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 166 Violoncello (2 credits)**

**MUS 167 String Bass (2 credits)**

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<b>MUS 168</b>	<b>Flute</b>	<b>(2 credits)</b>
<b>MUS 169</b>	<b>Oboe</b>	<b>(2 credits)</b>
<b>MUS 170</b>	<b>Clarinet</b>	<b>(2 credits)</b>
<b>MUS 171</b>	<b>Bassoon</b>	<b>(2 credits)</b>
<b>MUS 172</b>	<b>French Horn</b>	<b>(2 credits)</b>
<b>MUS 173</b>	<b>Trumpet</b>	<b>(2 credits)</b>
<b>MUS 174</b>	<b>Trombone</b>	<b>(2 credits)</b>
<b>MUS 175</b>	<b>Tuba</b>	<b>(2 credits)</b>
<b>MUS 176</b>	<b>Timpani</b>	<b>(2 credits)</b>
<b>MUS 177</b>	<b>Percussion</b>	<b>(2 credits)</b>
<b>MUS 178</b>	<b>Harp</b>	<b>(2 credits)</b>
<b>MUS 179</b>	<b>Guitar (Classical)</b>	<b>(2 credits)</b>
<b>MUS 180</b>	<b>Renaissance Winds</b>	<b>(2 credits)</b>
	<i>Instruments include krummhorns, recorders, etc.</i>	
<b>MUS 181</b>	<b>Viola da Gamba</b>	<b>(2 credits)</b>
<b>MUS 182</b>	<b>Lute</b>	<b>(2 credits)</b>

**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.

**MUS 249 Introduction to the Literature and History of Music (4 credits)**

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 (4 credits)**

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 (4 credits)**

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 (4 credits)**

A study of music drama from the lyric drama of the ancient Greeks to the present.

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Suggested as an elective for non-music majors.

Prerequisite: MUS 249 or permission of the instructor.

### **MUS 332 Symphonic Music (4 credits)**

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 333 Choral Music (4 credits)**

A study of choral music from the beginnings of choral polyphony in the early fifteenth century to the present. Suggested as an elective for non-music majors as well as for music majors.

Prerequisite: UC 049 (MUS 249) or permission of the instructor.

### **MUS 342 Music in the Baroque Era (4 credits)**

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 (4 credits)**

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 360 Class Voice (2 credits)**

Elementary aspects of singing for non-voice majors, including diction, breath control, projection, and repertoire.

### **MUS 370 Accompanying (1 credit)**

Designed to help the pianist acquire a knowledge of the basic skills required in the ensemble situation. Representative vocal and instrumental compositions are studied, and emphasis is placed on rehearsal techniques and performance.

### **MUS 371-372-373-374 Keyboard Technique (2 credits each)**

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 380 Instrumental Methods (Strings) (2 credits)**

Designed to provide the teacher with basic facilities and pedagogical techniques for the string family.

### **MUS 381 Instrumental Methods (Woodwinds) (2 credits)**

Designed to provide the teacher with basic facilities and pedagogical techniques for the woodwind family.

### **MUS 382 Instrumental Methods (Brass and Percussion) (2 credits)**

Designed to provide the teacher with basic facilities and pedagogical techniques for the brasses and percussion.

### **MUS 401 Teaching Music in Elementary Schools (2 credits)**

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

## ARTS AND SCIENCES

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 in Secondary Schools (2 credits)**

The content and organization of the complete secondary school curriculum and the role music assumes in it, including place and function of performing groups, general music, music appreciation, music theory, and musical production. Coordination of the music program with other subject areas such as English, social studies, drama. Selection of appropriate repertoire and development of the school music library. Survey of necessary equipment and facilities.

Prerequisites: MUS 211-212, 311-312, 321, 322.

### **MUS 403 Conducting Choral Music in Secondary Schools (2 credits)**

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 404 Conducting Instrumental Music in Secondary Schools (2 credits)**

The organization and conducting of instrumental music in junior and senior high schools. Repertoire, materials, and techniques of secondary school orchestras, bands, stage bands, and ensembles. Pedagogical principles appropriate to individual or group instruction.

Prerequisites: MUS 211-212; 321, 322.

### **MUS 490 Introduction to Music Bibliography (4 credits)**

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 (4 credits)**

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 (4 credits each)**

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.

### **MUS 494 Directed Research in Music Education (2 or 4 credits)**

A program of directed individual reading and research in technology of, innovation in, and psychology of music instruction.

Prerequisite: Two courses from the series MUS 401, MUS 402, MUS 403, and MUS 404, or permission of instructor.

## ARTS AND SCIENCES

### DEPARTMENT OF PHILOSOPHY

Associate Professors:	Richard J. Burke, Chairman Alfred Lessing
Assistant Professor:	Richard W. Brooks
Instructors:	John Immerwahr Julian Weitzenfeld
Lecturer:	Charles E. Morton

Philosophy is one of the oldest, often one of the least understood of the liberal arts. The philosopher is interested in all aspects of human life, searching for the greatest possible clarity concerning the most fundamental questions. There is no one kind of philosophy; there are many kinds, each with its own value. Philosophy has always served two functions: the first is speculative, the attempt to formulate illuminating generalizations about science, art, religion, nature, society, and any other important topic; the second is critical, the unsparing examination of its own generalizations and those of others to uncover unfounded assumptions, faulty thinking, hidden implications, and inconsistencies. The study of philosophy is designed to encourage a spirit of curiosity, a sensitivity toward the uses of words, a sense of objective assessment toward oneself as well as others. Competence in philosophy is solid training for advanced study in such fields as law, government, and public administration, as well as the ministry and teaching.

The Department of Philosophy offers programs of study leading to the degree of Bachelor of Arts with liberal arts major in philosophy, major in philosophy with concentration in area studies, and major in philosophy with concentration in linguistics. Majors in these programs may complete their general education requirement in the University Course Program or in the programs of Allport College, Charter College, or New College.

### Requirements for the Liberal Arts Major in Philosophy

Nine departmental courses (36 credits) are required, including one in logic (PHL 102 or 370), one in ethics (PHL 103 or 317), any two courses in the history of Western philosophy (chosen from PHL 204, 205, 206, and 207), and one course devoted to a single philosopher (PHL 382 or 383). Formal admission to major standing requires the completion of at least one philosophy course at the 200 level or above.

All 100-level courses have no prerequisites; 200-level courses are open to students with sophomore standing (28 credits or more); 300-level courses require successful completion of at least one philosophy course; 400-level courses require major standing.

## Requirements for the Major in Philosophy with Concentration in Area Studies

(Chinese Studies and South Asian Studies)

Six departmental courses (24 credits) are required, including one in logic (PHL 102 or 370) and one in the history of Western philosophy (PHL 204, 205, 206, or 207). For requirements in area studies, see pp. 177-80.

## Requirements for the Major in Philosophy with Concentration in Linguistics

Six departmental courses (24 credits) are required, including PHL 370, PHL 375, and one course in the history of Western philosophy (PHL 204, 205, 206, or 207). For requirements in linguistics, see pp. 182-85.

### **PHL 102 Introduction to Logic (4 credits)**

A study of the relationship between statements and reasons given in support of them. Informal reasoning and fallacies, inductive logic, traditional deductive systems of formal logic, and some modern developments. Offered every year.

### **PHL 103 Introduction to Ethics (4 credits)**

Systematic reading and discussion of major ethical analyses of the distinction between right and wrong, good and evil. The appeals to custom, theology, happiness, reason, and human nature will all be examined as offering viable criteria for judgments on contemporary issues of moral concern. Offered every year.

### **PHL 204, 205, 206, 207 History of Western Philosophy (4 credits each)**

The development of systematic philosophical thought in the Western world from its beginnings in the Mediterranean region to the present, with extensive readings in the works of major philosophers. The four courses are:

PHL 204: Classical Greek Philosophy (beginnings to Aristotle);  
Identical with CLS 204.

PHL 205: Hellenistic and Medieval Philosophy (Stoics to the Renaissance);

PHL 206: Early Modern Philosophy (Galileo to Kant);

PHL 207: Recent Philosophy (Hegel to the present).

Each course may be taken separately, although together they present a continuous development. Offered in sequence, so that each course is offered every other year.

### **PHL 219 Aesthetics (4 credits)**

Systematic examination of the nature of aesthetic experience and aesthetic judgment

## ARTS AND SCIENCES

in the appreciation of both nature and art. Critical analysis of major theories, old and new, of the creation and structure of works of art, the psychology of aesthetic perception, and the logic and semantics of aesthetic judgment.

### **PHL 221 Theories of Justice, Power, and Freedom (4 credits)**

The meanings of central concepts in political philosophy, together with several closely related concepts such as those of law, authority, and the like, are examined and analyzed through intensive readings in classic writings of political philosophers and through study of especially crucial problems.

### **PHL 225 Philosophy of Religion (4 credits)**

An examination of various approaches to religious faith and worship in the Western world, from the traditional arguments for a benevolent Deity to the theories of modern psychologists and anthropologists. The course does not strive to produce or confirm any particular point of view other than that of enlightened interest.

### **PHL 250 Philosophies and Religions of Asia (4 credits)**

A study of the major religions of India, China, and Japan with emphasis on their philosophical significance. The course will cover Hinduism, Jainism, Confucianism, Taoism, and Buddhism (with special reference to Ch'an or Zen), and will deal with both the ancient traditions and some modern developments. Offered every year.

### **PHL 317 Recent Theories of Ethics (4 credits)**

Theories of ethics and meta-ethics of the twentieth century, with emphasis on the analysis of ethical statements. Typical problems considered include the possibility of supporting ethical claims, the place of reason, emotion, and persuasion in ethics, and ethical relativism. Offered every other year.

### **PHL 329 Philosophy of Science (4 credits)**

A study of philosophical problems related to the sciences. Typical topics discussed are the structure of scientific explanation, problems of measurement and observation, the nature of scientific laws and theories, causality and indeterminacy, relativity, and the ontological status of theoretical entities.

Prerequisite: One course in philosophy, or UC 086 or 087, or one departmental course in the natural or social sciences.

### **PHL 333 Theories of Knowledge (4 credits)**

Critical examination of knowledge claims and of the types of justification given in their support. Typical topics are scepticism, empiricism, rationalism; the relations between sensations, images, and concepts; meaning and truth; believing and knowing; intuition; limits of knowledge.

### **PHL 337 Philosophy of Mind (4 credits)**

An examination of selected topics or works in the philosophical literature about mind. Some of these topics are: the nature of psychological explanation, the relation of mind and body, thinking, motivation, emotions, volition, concepts, remembering, images. Offered every other year.

### **PHL 340 Metaphysics (4 credits)**

An intensive study of selected influential attempts to characterize the basic features of the world. Emphasis on reformulations of metaphysical problems, such as the relation between nature and mind, in the light of modern advances in scientific knowledge and sophistication.

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### **PHL 351 Chinese Philosophy (4 credits)**

Systematic study of the rise and development of Chinese philosophy, with emphasis on the classical (Chou) period. Confucianism, Taoism, Mohism, Legalism, the "Hundred Schools." The impact of Buddhism on Chinese philosophical thinking will be examined with special reference to the growth of Ch'an (Zen) Buddhism. Offered every other year.

### **PHL 352 Indian Philosophy (4 credits)**

An examination of the presuppositions and doctrines of India's major philosophic systems. Both Indian logic and metaphysical speculation will be covered. Realistic, idealistic, pluralistic, dualistic, and monistic systems will be considered, with some reference to contemporary developments. Offered every other year.

Prerequisite: PHL 250.

### **PHL 355 Existentialism (4 credits)**

A study of several different types of existentialist philosophy, ranging from Kierkegaard to Sartre and Heidegger. Some attention may also be given to phenomenology. Offered every other year.

### **PHL 357 Contemporary Analytic Philosophy (4 credits)**

A study of the main forms of twentieth century analytic philosophy, with special emphasis on logical empiricism and linguistic analysis. Offered every other year.

### **PHL 365 Topics in Philosophy (4 credits)**

A study of one philosophic topic or problem which cuts across the usual divisions of the field. Offered every year. The instructor will announce the topic to be studied in the schedule of classes.

### **PHL 370 Systems of Logic (4 credits)**

Examination and analysis of the elements and structure of deductive systems. Basic notions, symbolism, and proof techniques employed in natural and axiomatic propositional calculi; Boolean classes; the predicate calculus; elementary set theory; philosophical problems of the relation of logic to mathematics; and of logic to natural and artificial languages. Fulfills the University Distribution Requirement in science and mathematics. (See p. 40). Offered every year.

### **PHL 375 Philosophies of Language (4 credits)**

An intensive study of selected logical and philosophical questions concerning the structure and function of linguistic systems.

### **PHL 382 Ancient and Medieval Philosophers (4 credits)**

An intensive study of the works of one major philosopher of the ancient or the medieval period. The specific philosopher to be considered will vary from year to year. May be repeated for credit. Offered every year. Identical with CLS 382.

### **PHL 383 Modern Philosophers (4 credits)**

An intensive study of the works of one major philosopher of the period from 1600 to the present. The specific philosopher to be considered will vary from year to year. May be repeated for credit. Offered every year.

### **PHL 390 Directed Readings in Philosophy (2 credits)**

A tutorial, intended primarily (but not exclusively) for majors, in which a student may study a restricted topic of special interest to him which is not treated in regular courses, or which he wishes to pursue in greater detail. Students should have a clear

## ARTS AND SCIENCES

idea of what they want to study before approaching a faculty member. The Department Chairman will often know best which professor the student should approach on a given topic. Graded "S" or "U."

### **PHL 395 Independent Study in Philosophy (4 credits)**

Essentially the same as PHL 390, but in addition to reading and consultation with an instructor, the student will be expected to do some writing, normally including a substantial term paper.

### **PHL 490 Philosophical Research (4 credits)**

The goal of the study of philosophy is the independent practice of philosophical inquiry. In this course, open only to philosophy majors who have demonstrated that they are ready for independent work, students have an opportunity to formulate philosophical questions and to progress toward carefully considered solutions. The research is carried on in consultation with and under the supervision of a faculty member, and the results are embodied in a written paper. Halfway through the semester, a meeting of the philosophy faculty is held at which the student presents and defends a complete first draft of his paper, and receives constructive criticism. Students who think they may qualify for this course should confer with their faculty adviser, or with the Department Chairman, before the start of their senior year. If the student is contemplating graduate work in philosophy, it is preferable to take this course in the Fall Semester rather than in the Winter Semester. Not offered in the Spring or Summer Sessions.

## DEPARTMENT OF PHYSICS

Professors:	Ralph C. Mobley, Chairman Robert M. Williamson
Associate Professors:	John M. McKinley Norman Tepley Paul A. Tipler
Assistant Professors:	Granvil C. Kyker, Jr. Marshall J. Sheinblatt
Instructor:	Marilyn L. Velinsky

The Department of Physics offers a comprehensive program in basic physics leading to the degree of Bachelor of Arts. The curriculum provides a solid foundation in both classical and modern physics. Physics majors with the degree of Bachelor of Arts are qualified for graduate work in physics and related subjects, for research positions in government and industrial laboratories, or with additional courses in education, for secondary school teaching.

The Department of Physics offers programs of study at the graduate level leading to the degree of Master of Science. For further information on the graduate program, see the Graduate Bulletin.

With respect to the undergraduate program, it should be noted that the University Course Program has been modified for the Department of Physics 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.

Typically, majors in the Department of Physics meet their general education requirement by participating in the University Course Program. Under certain circumstances, they may complete this requirement in Allport College, in Charter College, or in New College, but it is critical that they should first consult with a departmental adviser so that their graduation date will not be affected.

## Requirements for the Liberal Arts Major in Physics

- (a) PHY 151-152, 158, 317-318, 331, 341, 347-348, 361, 371, 381, 400 (2 credits); nine courses, five laboratories; 39 credits.
- (b) CHM 114-115, 117; two courses, one laboratory; 8 credits.
- (c) MTH 154-155, 254-255; four courses; 16 credits.

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- (d) Seven general education courses; 28 credits.
- (e) Completion of a second semester language course or placement beyond this level.
- (f) Two electives; 8 credits.

Admission to major standing requires 14 credits in physics, 8 credits in chemistry, and 8 credits in mathematics.

### Requirements for the Secondary Teaching Major in Physics

- (a) PHY 151-152, 158, 317, 331, 341, 347-348, 361, 371, 381, 400; eight courses, four laboratories; 36 credits.
- (b) CHM 114-115, 117; two courses, one laboratory; 8 credits.
- (c) MTH 154-155, 254-255; four courses; 16 credits.
- (d) Seven general education courses; 28 credits.
- (e) ED 244, 245, 428, 455; four courses; 20 credits.
- (f) Completion of a second-semester language course or placement beyond this level.
- (g) Two electives; 8 credits.
- (h) A minor. If the minor is in one department, 20 credits are required; otherwise 24 credits are required. See p. 212 for details. A mathematics minor is recommended.

Admission to major standing requires 14 credits in physics, 8 credits in chemistry, 8 credits in mathematics, and acceptance into the Teacher Education Program.

### Requirements for the Secondary Teaching Minor in Physics

Twenty credits in physics are required.

### Liberal Arts Major in Physics

(A Typical Program)

#### Fall

##### Semester 1

CHM 114

CHM 117

MTH 154

Freshman Exploratory\*\*

Distribution Requirement\*\*

#### Fall

##### Semester 3

PHY 152

PHY 158

MTH 254

Distribution Requirement\*\*

#### Winter

##### Semester 2

PHY 151

CHM 115

CHM 118\*

MTH 155

Freshman Exploratory\*\*

#### Winter

##### Semester 4

PHY 341

PHY 347

PHY 361

MTH 255

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### Distribution Requirement\*\*

#### Fall

#### Semester 5

PHY 317  
PHY 331  
PHY 348  
PHY 371  
GRM 101<sup>1</sup>

#### Fall

#### Semester 7

PHY 400  
PHY 421\*  
PHY 472\*  
PHY 490\*  
PHY 542\*  
PHY 548\*

#### Fall

#### Semester 7 Alternate

PHY 400  
PHY 421\*  
PHY 472\*  
PHY 490\*  
PHY 562\*

### Distribution Requirement\*\*

#### Winter

#### Semester 6

PHY 318  
PHY 381  
GRM 102<sup>1</sup>  
MTH 431\*  
Elective

#### Winter

#### Semester 8

PHY 400  
PHY 490\*  
PHY 482\*  
Senior Colloquium\*\*  
Elective

\*Courses so designated are not required for a major in physics; they are recommended electives for students planning graduate work in physics.

Students not planning graduate work should defer either PHY 331 or 371 until Semester 7, replacing PHY 472. It is further recommended that MTH 255 be deferred from Semester 4 to Semester 8, replacing PHY 482.

\*\*General Education Requirements—Seven University Courses (or acceptable departmental equivalents) (28 credits) distributed as follows: Western History and Philosophy, 4 credits; Literature, 4 credits; Art or Music, 4 credits; Social Sciences, 8 credits; Area Studies, 4 credits; and one other 4-credit University Course. These courses must include two Freshman Exploratories and one Senior Colloquium.

<sup>1</sup>May be taken in Semesters 7 and 8. This is in many ways preferable for a student planning graduate work in physics.

## Secondary Teaching Major in Physics

(A Typical Program)

#### Fall

#### Semester 1

CHM 114  
CHM 117  
MTH 154  
Freshman Exploratory\*\*  
Distribution Requirement\*\*

#### Winter

#### Semester 2

PHY 151  
CHM 115  
CHM 118\*  
MTH 155  
Freshman Exploratory\*\*

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### Fall Semester 3

PHY 152  
PHY 158  
MTH 254  
Distribution Requirement\*\*  
Distribution Requirement\*\*

### Fall Semester 5

PHY 317  
PHY 331  
PHY 348  
GRM 101  
ED 244

### Fall Semester 7

PHY 371  
PHY 400  
PHY 421\*  
Senior Colloquium\*\*  
Elective

### Winter Semester 4

PHY 341  
PHY 347  
PHY 361  
MTH 255  
Distribution Requirement\*\*

### Winter Semester 6

PHY 318\*  
PHY 381  
GRM 102  
ED 245  
Elective

### Winter Semester 8

ED 428  
ED 455

\*Courses so designated are not required for a teaching major in physics but are strongly recommended.

\*\*General Education Requirements—Seven University Courses (or acceptable departmental equivalents) (28 credits) distributed as follows: Western History and Philosophy, 4 credits; Literature, 4 credits; Art or Music, 4 credits; Social Sciences, 8 credits; Area Studies, 4 credits; and one other 4-credit University Course. These courses must include two Freshman Exploratories and one Senior Colloquium.

The following two-semester course, PHY 101-102, is open to all students and may be used by non-science majors to fulfill the science Distribution Requirement.

### PHY 101-102 General Physics (4 credits each)

An introduction to classical and modern physics. Particle mechanics, wave motion, electricity and magnetism, properties of atoms and atomic systems are considered. Calculus is not required. Not intended for students majoring in physics, chemistry, engineering, or mathematics.

Prerequisite for PHY 101: High school algebra and trigonometry or MTH 134.

Prerequisite for PHY 102: PHY 101 or permission of the instructor.

### PHY 104 Classical Astronomy (4 credits)

Early observations and theories. The universe as seen by Ptolemy and Copernicus and their concepts as refined by Brahe, Kepler, and Newton. Light and optical instruments. The earth—its place and motion in the universe. Time and seasons. The moon—its mass, size, composition, and motion—eclipses. The planets—their mass, size, composition, and motion. Manned and robot exploration of the moon and planets.

Prerequisite: High school algebra with some trigonometry desirable.



## ARTS AND SCIENCES

**PHY 400 Seminar (1 credit per semester)**

**PHY 405 Special Topics (2, 4, 6, credits)**

Prerequisite: Permission of the Department.

**PHY 417-418 Advanced Laboratory (2 credits each)**

Methods of experimental physics. Experiments and projects in all areas of classical and modern physics, with emphasis on research techniques and detailed analysis of experimental data.

Prerequisites: PHY 317-318, 341, and 347-348, or equivalent.

Prerequisites or corequisites: PHY 331, 361, and 371, or equivalent.

**PHY 421 Thermodynamics (4 credits)**

The zeroth, first and second laws of thermodynamics with applications to pure substances. Introduction to the kinetic theory of gases and to statistical mechanics.

Prerequisites: PHY 151, MTH 254.

**PHY 472 Quantum Mechanics I (4 credits)**

Principles of non-relativistic quantum mechanics, Schrödinger wave equation, expectation values of energy, position, momentum and angular-momentum operators, spin, perturbation theory, identical particles—with applications to atomic systems.

Prerequisites: PHY 361, MTH 255.

**PHY 482 Electricity and Magnetism II (4 credits)**

Multipole fields, solutions of Laplace and Poisson equations, electromagnetic waves in insulators and conductors, the derivation of the laws of optics from Maxwell's equations.

Prerequisites: PHY 381, MTH 255.

**PHY 490 Independent Study and Research (2, 4, or 6 credits)**

Prerequisite: Permission of the Department.

Courses in physics on the 500 level are graduate courses available to well-prepared undergraduate students with permission of the Department.

**PHY 542 Advanced Electronics (4 credits)**

Selected topics in the analysis and design of electronic circuits.

Prerequisite: PHY 341.

**PHY 548 Advanced Electronics Laboratory (2 credits)**

Prerequisite: PHY 348.

**PHY 562 Mechanics II (4 credits)**

Methods of Lagrange and Hamilton, tensor algebra, rigid bodies in three dimensions, continuous media, and coupled systems.

Prerequisites: PHY 361, MTH 255.

**PHY 573 Nuclear Physics (4 credits)**

The properties of ground and excited states of nuclei, nuclear reactions, fundamental particles, nuclear forces, interaction of particles and photons with matter, and nuclear particle detectors.

Prerequisite: PHY 472.

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### **PHY 574 Introduction to Solid State Physics (4 credits)**

An introduction to the thermal, electrical, and magnetic properties of solids, including the periodic structure, lattice dynamics, electron interactions and behavior, transport properties, the Fermi surface and optical behavior, superconductivity, with emphasis on current experimental techniques.

Prerequisite: PHY 472 or equivalent.

Other advanced graduate courses in physics described in the Graduate Bulletin are:

**PHY 600 Seminar (1 credit)**

**PHY 673 Quantum Mechanics II (4 credits)**

**PHY 674 Quantum Mechanics III (4 credits)**

**PHY 690 Research (2 to 12 credits)**

## ARTS AND SCIENCES

### DEPARTMENT OF POLITICAL SCIENCE

Professors:	Edward J. Heubel, Chairman Sheldon L. Appleton John E. Rue
Associate Professors:	Thomas W. Casstevens Roger H. Marz (on leave Winter, 1971) William F. Sturner Carl R. Vann
Assistant Professors:	Henry J. Kennedy James R. Ozinga
Instructors:	Herbert M. Heidenreich William D. Ice Arthur W. Wild

Political science courses offer a concentrated and systematic study of politics at all levels of government and in many different cultural and national settings. Policy-making, law, administration, international politics, foreign governments, and theories and philosophies of government are among the many topics included in these courses. The most general educational aim is to increase the students' awareness and deepen their understanding of the realm of politics and government. Political science majors prepare for careers in civil service, law, practical politics, and the teaching of government and social studies. The liberal arts major in political science provides undergraduate study appropriate to most of these careers; the social studies major (see pp. 187-88) permits the prospective secondary teacher to concentrate on political science courses.

The Department of Political Science offers programs of study leading to the degree of Bachelor of Arts with a liberal arts major in political science. This major may be taken with a concentration in area studies.

Departmental honors are conferred upon graduates who successfully complete a PS 490 research project and paper at the honors level during their senior year.

#### Requirements for the Liberal Arts Major in Political Science

The major requires nine courses (36 credits) in political science including UC 052, PS 131, and PS 221. These courses are offered every Fall and Winter Semester. Admission to major standing

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requires successful completion of these three courses. Majors in the Department of Political Science may complete their general education requirement in the University Course Program or in the programs of Allport College, Charter College, or New College.

### Liberal Arts Major in Political Science

(A Typical Program)

#### Semester 1

Freshman Exploratory  
UC 052  
Distribution Requirement  
Foreign Language

#### Semester 3

PS 221  
Distribution Requirement  
Foreign Language  
Elective

#### Semester 5

Political Science  
Political Science  
Distribution Requirement  
Elective

#### Semester 7

Political Science  
Distribution Requirement  
Elective  
Elective

#### Semester 2

Freshman Exploratory  
PS 131  
Distribution Requirement  
Foreign Language

#### Semester 4

Political Science  
Distribution Requirement  
Foreign Language  
Elective

#### Semester 6

Political Science  
Political Science  
Distribution Requirement  
Elective

#### Semester 8

Senior Colloquium  
Political Science  
Elective  
Elective

#### **PS 115 U.S. Foreign Policy (4 credits)**

Study of the foreign policy issues and challenges confronting the United States in the nuclear age, in the light of the historical evolution of American diplomacy, and of the limitations imposed upon foreign policy makers by public opinion and the exigencies of domestic politics. Offered in the Winter Semester.

#### **PS 131 Foreign Political Systems (4 credits)**

Analysis of the politics and governmental systems of selected countries in the contemporary world; types chosen range from established constitutional democracies and totalitarian systems, to movements and regimes of new and developing nations. Offered in the Fall and Winter Semesters and in the Spring Session.

#### **PS 205 Politics of the Local Community (4 credits)**

Study of state and local government, local political forces, trends in metropolitan and suburban politics, problems of planning in an age of urbanization. Offered in the Fall Semester.

Prerequisite: UC 052.

#### **PS 213 World Politics (4 credits)**

Intensive interdisciplinary study of concepts and hypotheses basic to understanding

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and analysis of relations among nations. The class engages in a mock U.N. exercise and in the analysis of a number of actual cases to gain experience in the application of the hypotheses studied. Offered in the Fall and Winter Semesters.  
Prerequisite: UC 052.

### **PS 221 Systematic Political Analysis (4 credits)**

An introduction to formal models in political science. Offered in the Fall and Winter Semesters.

Prerequisite: Sophomore standing.

### **PS 241 Law and Politics (4 credits)**

A broad survey of the relationship of law and legal systems to politics and political systems. The student will be exposed to the classic jurisprudential, historical, anthropological, and comparative treatments of the subject. Offered in the Fall Semester.  
Prerequisite: UC 052.

### **PS 251 Public Administration (4 credits)**

Intensive study of government in action, with special attention to policy formulation, organization, personnel administration, supervision, coordination, administrative control, and accountability. Offered in the Winter Semester.

Prerequisite: UC 052.

### **PS 271 American Political Thought (4 credits)**

The writings of prominent American thinkers and statesmen whose ideas have influenced the development of the American polity will be considered. Selected texts by European thinkers will also be examined with a view to their influence on America. Not offered on any set schedule.

Prerequisite: UC 052 or permission of the instructor.

### **PS 272, 273 Western Political Thought (4 credits each)**

A study of the important texts in political thought, focusing on critical moments in the Western tradition, and including questions raised by the decline of Athenian democracy, the dawn of modern liberalism, the rise of democratic capitalism, and the emergence of challenges to liberal democracy, such as romanticism, Marxism, and some varieties of modern relativism. Not offered on any set schedule.

### **PS 277 Communism (4 credits)**

The development of revolutionary socialism from early Marxism to the present day. The course analyzes the relevance of Marxism to a variety of contemporary revolutionary situations. Offered in the Fall Semester.

### **PS 290 Political Science Laboratory (2 credits)**

From time to time, collateral, independent work of various kinds will be offered to students in conjunction with regular departmental courses. These opportunities may be limited to students enrolled in particular courses and may be restricted to political science majors. Such work may be taken more than once. Not offered on any set schedule.

Prerequisite: Permission of the instructor.

### **PS 301 American Presidency and the Executive Process (4 credits)**

A study of presidential politics, decision-making, and leadership in the American political system. Offered in the Winter Semester.

Prerequisite: UC 052.

### **PS 302 Legislative Process and Public Policy (4 credits)**

A study of legislative behavior and decision-making, emphasizing the problems of

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public policy development in the American political system. Offered in the Fall Semester.

Prerequisite: UC 052.

### **PS 331 The British Political System (4 credits)**

Analysis of British politics and the main features of the British constitution today; parties, parliament, and public policy are interpreted in the context of the British social and cultural setting.

Prerequisite: PS 131.

### **PS 333 African Politics (4 credits)**

Examination of politics of selected African states, emphasizing West Africa. The primary focus of the course is on political development. Attention is given to traditional and colonial politics as well as to individuals, groups, and institutions that make up the present political process. Offered in the Winter Semester.

Prerequisite: PS 131 or UC 064.

### **PS 334 Political Systems of Southern Asia (4 credits)**

Examination of the elements of political life in India and Pakistan. The cultural, historical, social, and economic factors that influence contemporary political institutions; the issues; and the processes by which political conflicts are resolved will be studied. Politics in Ceylon, Nepal, and Himalayan border kingdoms may also be considered.

Prerequisite: UC 066.

### **PS 335 Politics of Latin America (4 credits)**

Analysis of the political systems of Latin America and the historical, social, and economic factors underlying them. The major countries are studied intensively, and a comparative approach is used to examine the variations from democracy to dictatorship and the political instability that characterize the area. Offered in the Fall Semester.

Prerequisite: PS 131 or UC 068.

### **PS 336 U.S.-Latin American Relations (4 credits)**

Analysis of contemporary relations of the United States with the countries of Latin America. Relations with particular countries will be studied as well as the overall economic, military, and diplomatic aspects of our Latin American policy. The Inter-American system and regional groupings within Latin America will also be studied. Offered in the Winter Semester.

Prerequisite: PS 131 or UC 068.

### **PS 337 The Soviet Political System (4 credits)**

A descriptive analysis of the Soviet society as a political system; its origins, institutions, and political behavior. Trends and developments in the system will be assessed, and comparisons with other political systems will be undertaken. Offered in the Winter Semester.

Prerequisite: PS 277.

### **PS 338 Modern Chinese Politics (4 credits)**

An analysis of the rise of social movements in China after the breakdown of the traditional order; the emergence of the Nationalist and Communist regimes and the triumph of the Communists; the political processes of the People's Republic of China, emphasizing the role of elites in policy formation, ideology, mass support, and the exercise of central power. Offered in the Fall Semester.

Prerequisite: UC 062.

### **PS 339 Sino-Soviet Relations (4 credits)**

The relations between the People's Republic of China and the U.S.S.R., emphasizing the

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reaction to the Russian experience by the leaders of China and the split between the U.S.S.R. and the People's Republic. Offered in the Winter Semester.  
Prerequisite: PS 337 or PS 338.

### **PS 342 The American Legal System (4 credits)**

A study of the American legal system in relation to politics and the American political system. The course emphasizes the functioning of the United States Supreme Court as a legal and political instrument. Offered in the Winter Semester.  
Prerequisite: UC 052.

### **PS 361 Political Parties (4 credits)**

The development of the concept of party in political research and political action; analysis of the growth and function of parties and party competition in modern societies. Offered in the Winter Semester.  
Prerequisite: UC 052.

### **PS 365 Public Opinion (4 credits)**

A study of the formation, communication, and change of the politically relevant opinions of individuals and groups in modern societies and of the ways in which these opinions lead to political actions. Offered in the Fall Semester.  
Prerequisites: UC 052 and PS 221.

### **PS 381 Political Theory (4 credits)**

The role of theory in the study of politics; the use of formal models and systems theories; examination of the problems of developing a science of politics and its relationship to value and policy questions.  
Prerequisite: PS 221.

### **PS 390 Directed Readings (2 or 4 credits)**

Readings not normally covered in existing course offerings. Directed on an individual basis. Consent of the Department and permission of the instructor is required.

From time to time, the Department offers seminar courses at the advanced level in which a topic or problem is studied in depth, and in which individual student research of a significant sort is presented for analysis and criticism. The seminar titles refer to the broad fields of political science within which the problem falls; the precise problems to be studied will be announced by the Department at the time the seminars are offered.

### **PS 400, 401 Seminar in Public Policy (4 credits each)**

### **PS 410, 411 Seminar in World Politics (4 credits each)**

### **PS 420, 421 Seminar in Political Behavior (4 credits each)**

### **PS 430, 431 Seminar in the Comparative Study of Political Systems (4 credits each)**

### **PS 440, 441 Seminar in Public Law (4 credits each)**

### **PS 480, 481 Seminar in Political Theory (4 credits each)**

### **PS 490 Special Topics or Directed Research (2, 4, or 8 credits)**

Offered in the Fall and Winter Semesters and in the Spring Session.  
Prerequisites: All 400-level courses require consent of the Department.

## DEPARTMENT OF PSYCHOLOGY

Professors:	Donald C. Hildum, Acting Chairman Edward A. Bantel David C. Beardslee Harvey Burdick Donald D. O'Dowd
Associate Professors:	Jean S. Braun Kenneth H. Coffman David G. Lowy Irving Torgoff
Assistant Professors:	Robert N. Blockovich Max Brill Joseph S. Dumas Evelyn W. Katz Ralph J. Schillace David W. Shantz
Instructor:	Lorna A. Middendorf

The undergraduate psychology program is directed to the student who wishes a broad foundation in contemporary psychological science, with emphasis both on methods of study and on interpretation of research. This program leads to the degree of Bachelor of Arts with liberal arts major in psychology and liberal arts major in psychology with concentration in linguistics. For the concentration in linguistics, see pp. 182-87.

For programs leading to the degree of Master of Arts in psychology, see the Graduate Bulletin.

Majors in the Department of Psychology may take their general education requirement in the University Course Program or in the program of any one of the inner colleges.

All students in psychology courses should be aware that, in order to carry on the work of the Department, they may be asked to volunteer for psychological experiments.

## Requirements for the Liberal Arts Major in Psychology

This major requires nine courses (36 credits) in psychology, which must include PSY 146, 231, 351 or 352, 353, and at least one course at or above the 400 level.

Admission to major standing requires successful completion of

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three courses in psychology, including PSY 146 and 231.

A student who wishes to earn departmental honors must apply for and be accepted into the honors program. The prerequisite for applying is 72 credits, including PSY 146, 231, 351 or 352, and 353. Honors candidates will be required to take PSY 490 and 499.

### Liberal Arts Major in Psychology

(A Typical Program)

#### Semester 1

Freshman Exploratory  
Distribution Requirement  
Distribution Requirement  
Foreign Language

#### Semester 3

PSY 146  
Distribution Requirement  
Foreign Language  
Elective

#### Semester 5

PSY 351 or 352  
Psychology  
Distribution Requirement  
Elective

#### Semester 7

Psychology  
Distribution Requirement  
Elective  
Elective

#### Semester 2

Freshman Exploratory  
Distribution Requirement  
Distribution Requirement  
Foreign Language

#### Semester 4

PSY 231  
Psychology  
Foreign Language  
Elective

#### Semester 6

PSY 353  
Psychology  
Distribution Requirement  
Elective

#### Semester 8

Senior Colloquium  
Psychology  
Elective  
Elective

#### **PSY 146 Foundations of Contemporary Psychology (4 credits)**

An introduction both to basic principles and the most recent formulations in psychology. Topics include the central psychological processes of attending, perceiving, learning, thinking, remembering, and the development and organization of personality. (Normally offered in Fall and Winter Semesters.)

#### **PSY 171 Child Development (4 credits)**

Theory and principles of the development of the child from birth to puberty. Selected topics include: maturational processes, learning and motivation, intelligence, the self concept, and child-rearing practices. (Normally offered in Fall and Winter Semesters.)

#### **PSY 231 Statistics and Research Design (4 credits)**

A survey of the principal statistical procedures commonly employed in research in the social sciences. Emphasis is given to the design of experimental studies, problems of sampling and control of variables, and psychological measurement. Two years of high school mathematics are recommended. (Normally offered in Fall and Winter Semesters.)

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### **PSY 241 Individual Differences (4 credits)**

A study of intellectual, motivational, and personality differences associated with age, social roles, sex, ethnic and racial groups, and social class. (Normally offered in Fall and Winter Semesters.)

Prerequisite: UC 054 or PSY 146.

### **PSY 245 Psychological and Field Studies in Education (4 credits)**

Psychological factors involved in learning and development are examined in lectures, class discussions, and observations of teaching. These observations may be of actual teaching in the schools, or they may be observations of video tapes of teaching. Identical with ED 245. (Normally offered in the Fall and Winter Semesters.)

Prerequisites: Two Freshman Exploratories and one course in psychology.

### **PSY 251 Abnormal Psychology (4 credits)**

The psychodynamics of abnormal behavior, clinical types, methods of investigation, and principles of psychotherapy. (Normally offered in the Fall and Winter Semesters.)

Prerequisite: UC 054 or PSY 146.

### **PSY 261 Foundations of Organizational Behavior (4 credits)**

Empirical and theoretical approaches to understanding human behavior in complex organizations. (Normally offered in the Fall and Winter Semesters.)

Prerequisite: UC 054 or PSY 146.

### **PSY 351 Experimental Psychology: Learning, Memory, and Thinking (4 credits)**

Theories on and research methods for such topics as conditioning, habit formation, perceptual-motor skills, verbal learning, and problem-solving. Weekly laboratory. (Normally offered in the Fall Semester.)

Prerequisites: PSY 146 and 231.

### **PSY 352 Experimental Psychology: Sensation and Perception (4 credits)**

Theories on and research methods for basic sensory systems. Topics include modern psychophysics, color vision, and spatial organization. Weekly laboratory. (Normally offered in the Winter Semester.)

Prerequisites: PSY 146 and 231.

### **PSY 353 Motivation and Personality (4 credits)**

The study of the nature of motivation and emotion, and the organization of personality, with emphasis on research approaches and methods of measurement. (Normally offered in the Fall Semester.)

Prerequisites: Three courses in psychology, including PSY 146.

### **PSY 363 Research Projects (4 credits)**

A course providing opportunity for individual projects of research in the fields of perception, learning, motivation, personality, or social psychology. (Normally offered in the Fall Semester.)

Prerequisites: Four courses in psychology, including PSY 146, 231, and permission of the Department.

### **PSY 371 Comparative Psychology (4 credits)**

A phylogenetic approach to the analysis of animal behavior. Emphasis will be placed on the historical, philosophical, and methodological foundations of the comparative approach to the study of behavior. A simple experiment will be performed. (Normally

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offered in the Winter Semester in alternate years.)

Prerequisite: PSY 146.

### **PSY 421      Advanced Experimental Psychology      (4 credits)**

Empirical and theoretical investigation of issues in learning, perception, thinking, physiological psychology, and animal behavior, with research projects. (Normally offered in the Winter Semester in alternate years.)

Prerequisites: PSY 146, 231, 351, and 352.

### **PSY 423      Advanced Social Psychology      (4 credits)**

Problems of human social behavior are approached through study of the research literature and by carrying out further research. (Normally offered in the Fall Semester.)

Prerequisites: Four courses in psychology, including PSY 231.

### **PSY 427      Human Personality      (4 credits)**

The development and functioning of the adult person, with emphasis on experimental and clinical approaches to understanding. (Normally offered in the Winter Semester.)

Prerequisites: Four courses in psychology, including PSY 231 and 353.

### **PSY 431      Historical and Contemporary Issues      (4 credits)**

Major theoretical issues in psychology, approached both historically and philosophically. (Normally offered in the Winter Semester.)

Prerequisites: Three courses in psychology, including PSY 146.

### **PSY 435      Psychology of Communication      (4 credits)**

Selected topics from among the following: the nature and origin of language; structural syntactics and semantics and their psychological significance; translation; persuasion; mass communication, including its sources, determinants, organization, messages, audience, and effects. (Normally offered in the Fall Semester.)

Prerequisites: Four courses in psychology, including PSY 146 and 231.

### **PSY 490      Honors Research      (4 credits)**

Individual research projects under supervision of a member of the Department. (Normally offered in the Winter Semester.)

Prerequisite: Acceptance into the honors program.

### **PSY 497      Apprentice College Teaching      (2 or 4 credits)**

Supervised participation in the teaching of an undergraduate course in psychology, together with discussion of teaching objectives and methods. Open to psychology majors who have obtained the consent of a faculty member in this Department. Does not satisfy major requirements in psychology.

### **PSY 499      Honors Seminar      (4 credits)**

Critical study of theoretical issues involved in selected problems. (Offered only in the Fall Semester.)

Prerequisite: Acceptance into the honors program.

The following courses are available for graduate students and qualified upperclassmen.

### **PSY 510      Developmental Psychology      (4 credits)**

Description and evaluation of the principles and theories of development from birth to maturity. Maturation processes, learning, and emotional disturbances will be some of the issues considered. (Normally offered in the Winter Semester.)

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Prerequisite: Permission of the instructor or acceptance into the Master of Arts in Teaching program.

### **PSY 515 Theories of Development (4 credits)**

A review and critical analysis of major issues and theories concerning the developmental process from birth to old age. The approaches of such theorists as Lewin, Freud, Piaget, Erikson, and leading exponents of social-learning theory will be examined. (Normally offered in the Fall Semester.)

Prerequisites: Five courses in psychology, including PSY 171, and permission of the instructor or acceptance into the graduate program.

### **PSY 520 Tests and Measurement (4 credits)**

Theories of measurement and evaluation. Construction and examination of tests of ability, achievement, interests, and special aptitudes. Objective tests of personality. (Normally offered in the Fall Semester.)

Prerequisite: Permission of the instructor or acceptance into the Master or Arts in Teaching program.

### **PSY 525 Psychopathology of Childhood (4 credits)**

A survey of the psychopathology of children and adolescents, emphasizing dynamic and cognitive-perceptual-motor variables. (Normally offered in the Fall Semester.)

Prerequisite: PSY 510 or 520, or acceptance into the Master of Arts in Teaching program in special education, or undergraduate major in psychology, or permission of the instructor.

### **PSY 530 Advanced Abnormal (4 credits)**

Review of the major neurotic, psychotic, psychosomatic, and organic syndromes. Current issues and research in psychopathology. (Normally offered in the Fall Semester.)

Prerequisites: Five courses in psychology, including PSY 251 and permission of the instructor or acceptance into the graduate program.

### **PSY 540 Behavior Theory and Learning (4 credits)**

Conditioning, reinforcement, punishment, drives, and transfer of training will be studied in their relationship to such complex human processes as education, psychotherapy, and the development of motives. (Normally offered in the Winter Semester.)

Prerequisites: Five courses in psychology, including PSY 231, 351, and 353 or acceptance into the graduate program.

### **PSY 561 Advanced Statistics (4 credits)**

Following a review of descriptive and simple inferential statistics, major emphasis will be given to analysis of variance procedures and non-parametric statistics. An introduction to functions and procedures of factor analysis will also be presented. (Normally offered in the Fall Semester.)

Prerequisite: An undergraduate course in statistics.

### **PSY 570 Social and Personality Development (4 credits)**

A review and critical examination of major contemporary theoretical, research, and applied activity focusing on familial and extra-familial socialization, parent-child relations, peer influences, and the impact of social change on personality development. This material will be integrated with field experiences in relevant settings. (Normally offered in the Fall Semester.)

Prerequisites: Five courses in psychology, including PSY 171, and permission of the instructor, or acceptance into the graduate program.

### **PSY 571 Perceptual and Cognitive Development (4 credits)**

A review and critical examination of major contemporary theoretical, research, and

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applied activity in the developmental nature of perception, learning, reasoning, concept formation, cognitive style, problem-solving behavior, and language. This material will be integrated with field experiences in relevant settings. (Normally offered in the Winter Semester.)

Prerequisites: Five courses in psychology, including PSY 171, and permission of the instructor, or acceptance into the graduate program.

### **PSY 572 Psychology of Adolescence and Aging (4 credits)**

An examination of significant structural, functional, and behavioral changes during adolescence and old age. This material will be integrated with field experiences in relevant settings. (Normally offered in the Winter Semester.)

Prerequisites: Five courses in psychology, including PSY 171, and permission of the instructor, or admission into the graduate program.

### **PSY 595 Special Topics (4 credits)**

Exploration of current findings and theory in an area of special interest. (Normally offered in the Winter Semester.)

Prerequisites: Four courses in psychology and permission of the instructor.

The following courses are available only for graduate students.

<b>PSY 610</b>	<b>Pro-Seminar</b>	<b>(4 credits)</b>
<b>PSY 611</b>	<b>Research Methods and Project</b>	<b>(4 credits)</b>
<b>PSY 620</b>	<b>Individual Testing</b>	<b>(4 credits)</b>
<b>PSY 621</b>	<b>Projective Tests</b>	<b>(4 credits)</b>
<b>PSY 630</b>	<b>Clinical Psychology</b>	<b>(4 credits)</b>
<b>PSY 670</b>	<b>Applied Developmental Psychology</b>	<b>(4 credits)</b>
<b>PSY 680</b>	<b>Practicum I</b>	<b>(4 credits)</b>
<b>PSY 681</b>	<b>Practicum II</b>	<b>(4 credits)</b>
<b>PSY 690</b>	<b>Research Project</b>	<b>(4 credits)</b>

## DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

Professors:	Nahum Z. Medalia, Chairman Jesse R. Pitts Philip Singer
Associate Professors:	Harry Gold George P. Rawick (on leave 1970-71) Audrey Smedley
Assistant Professors:	Carol R. Andreas Arturo Biblarz Judith K. Brown Carleton W. Smith
Instructors:	Peter J. Bertocci John Magney Harold A. Olofson (on leave 1970-71) Karen Sacks

The Department of Sociology and Anthropology participates in several degree programs, each of which is designed to provide the maximum degree of flexibility to serve the student's interest while, at the same time, providing the substantive background required to prepare the student for a career in his chosen field. The various programs offered by this Department, all leading to the degree of Bachelor of Arts, are described below. Majors in these programs may complete their general education requirement in the University Course Program or in the programs of Allport College, Charter College, or New College (with the proviso that majors in sociology must take UC 058).

### Requirements for Majors in Sociology and Anthropology Programs

1. **Major in Sociology.** UC 058 and nine other courses (40 credits) in sociology.
2. **Major in Anthropology.** AN 101, AN 102, and eight other courses (40 credits) in sociology or anthropology, no more than two of which may be in sociology. (LIN 301, Linguistic Structures, may be substituted for one departmental course.)
3. **Major in Sociology and Anthropology.** UC 058, AN 101, AN 102, four additional courses (28 credits) in sociology, and three additional courses (12 credits) in anthropology.

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4. **Major in Sociology with Concentration in Area Studies.** UC 058, five additional courses (24 credits) in sociology, and five courses (20 credits) in area studies concentration (South or East Asia). For more information on this program see the concentration in area studies, on pp. 177-80 of this catalog.

5. **Major in Anthropology with Concentration in Area Studies.** AN 101, AN 102, four additional courses (24 credits) in anthropology, and five courses (20 credits) in area studies concentration (South or East Asia).

6. **Secondary Teaching Major in Social Studies with Concentration in Sociology** (History Minor). UC 058 and four additional courses (20 credits) in sociology.

7. **Secondary Teaching Major in Social Studies with Concentration in Sociology** (No History Minor). UC 058 and two additional courses (12 credits) in sociology.

8. **Secondary Teaching Major in Social Studies with Concentration in Anthropology** (History Minor). AN 101, AN 102, and three additional courses (20 credits) in anthropology.

9. **Secondary Teaching Major in Social Studies with Concentration in Anthropology** (No History Minor). AN 101, AN 102, and one additional course (12 credits) in anthropology.

10. **Major in Anthropology with Concentration in Linguistics.** AN 101, AN 102, three additional courses (20 credits) in anthropology, and five courses (20 credits) in linguistics.

### Liberal Arts Major in Sociology

(A Typical Program)

#### Semester 1

Freshman Exploratory  
UC 058  
Distribution Requirement  
Foreign Language

#### Semester 3

SOC Elective  
Distribution Requirement  
Distribution Requirement  
Foreign Language

#### Semester 5

SOC Elective  
Distribution Requirement  
Distribution Requirement  
Elective

#### Semester 2

Freshman Exploratory  
SOC Elective  
Distribution Requirement  
Foreign Language

#### Semester 4

SOC Elective  
Distribution Requirement  
Elective  
Foreign Language

#### Semester 6

SOC Elective  
Distribution Requirement  
Elective  
Elective

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**Semester 7**  
SOC Elective  
SOC Elective  
Elective  
Elective

**Semester 8**  
SOC Elective  
SOC Elective  
Senior Colloquium  
Elective

### Liberal Arts Major in Anthropology

(A Typical Program)

**Semester 1**  
Freshman Exploratory  
AN 101  
Distribution Requirement  
Foreign Language

**Semester 3**  
AN Elective  
Distribution Requirement  
Distribution Requirement  
Foreign Language

**Semester 5**  
AN Elective  
Distribution Requirement  
Distribution Requirement  
Elective

**Semester 7**  
AN Elective  
AN Elective  
Elective  
Elective

**Semester 2**  
Freshman Exploratory  
AN 102  
Distribution Requirement  
Foreign Language

**Semester 4**  
AN Elective  
Distribution Requirement  
Elective  
Foreign Language

**Semester 6**  
AN Elective  
Distribution Requirement  
Elective  
Elective

**Semester 8**  
AN Elective  
AN Elective  
Senior Colloquium  
Elective

### Anthropology

**AN 101 Evolution of Man and Culture (4 credits)**

Introduction to physical anthropology and archaeology as applied to the evolution of man and culture. Stress placed upon man's development in adaptation to his environment.

**AN 102 Man in Culture and Society (4 credits)**

Introduction to cultural and social anthropology with emphasis placed upon the continuing adaptation of man to his environment and especially the interactions among culture, society, and natural environment.

**AN 200 Social Anthropology (4 credits)**

Examines social structure and social organization in anthropological perspective. Entails the study of economic, political, religious, and kinship systems in the social life of man. Prerequisite: AN 102 or permission of the instructor.

**AN 202 The Evolution of Man in Africa (4 credits)**

A survey course covering the origin and evolution of man from the earliest evidence

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to the Christian era. The course will emphasize such anthropological principles as evolution, including adaptation, ecology, diffusion, etc.

Prerequisite: AN 102 or permission of the instructor.

### **AN 221 Ecology of Non-Industrial Societies (4 credits)**

Covers in depth the relationships among environment, technology, and culture in shaping non-industrial societies. Emphasizes the diversity of man in adaptation as well as the generalities in cultural development.

Prerequisite: AN 102 or permission of the instructor.

### **AN 231 Child-Rearing in Cross-Cultural Perspective (4 credits)**

The cross-cultural diversity of child-rearing practices will be examined, emphasizing their educational role. Stress will be put on non-Western societies.

Prerequisite: AN 102 or permission of the instructor.

### **AN 241 Culture and Personality (4 credits)**

Theories of personality are examined in relationship to the concept of culture. The role of culture in defining and treating physical and mental illness is studied. Deviant behavior and its relevance for cultural change will be discussed.

Prerequisite: AN 102 or permission of the instructor.

### **AN 251 Peasant Society and Culture (4 credits)**

Studies the peasant as a social type as well as his role in the making of great civilizations. Emphasis placed upon the forces for change in peasant societies, especially in the non-Western world.

Prerequisite: AN 102 or permission of the instructor.

### **AN 261 Survey of African Peoples and Cultures (4 credits)**

A general survey of the geography, history, economy, society, religion, and political system of the different indigenous peoples of Africa. Part of the course will cover the events of the period of European contact.

Prerequisite: AN 102 or permission of the instructor.

### **AN 280 Directed Readings in Anthropology (4 credits)**

A tutorial course primarily for non-majors interested in research on a special problem. May not be repeated for credit.

Prerequisites: AN 101 or AN 102 and permission of the instructor.

### **AN 300 Social Stratification in Cross-Cultural Perspective (4 credits)**

A course which examines the concepts of class, caste, and race in terms of social conflict and social integration. Students will study these problems in a cross-cultural perspective placing emphasis upon comparative materials. Identical with SOC 300.

Prerequisite: AN 102 or UC 058 or permission of the instructor.

### **AN 321 Problems of Social and Economic Change (4 credits)**

The role of anthropology in the implementation of programs of socio-economic development is examined, using examples from non-Western areas. The activities of the United Nations and of national governments in the development field are reviewed.

Prerequisite: AN 102 or permission of the instructor.

### **AN 351 The Social Anthropology of Selected African Societies (4 credits)**

Intensive studies of selected societies in Africa. The course will emphasize social

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anthropology, including social organization and the social process, political systems, kinship, economic organization, and religious systems.

Prerequisite: AN 202 or permission of the instructor.

### **AN 361 Contemporary South Asian Society (4 credits)**

A study of contemporary rural and urban society in India and Pakistan. Emphasis is placed on social, economic, political, and religious life, as well as on problems of cultural change.

Prerequisite: AN 102 or UC 066 or permission of the instructor.

### **AN 371 Studies in Latin American and Caribbean Cultures (4 credits)**

Focuses on selected cultures of Middle and South America as well as the Caribbean. Emphasis placed upon social, economic, and political change.

Prerequisite: AN 102 or permission of the instructor.

### **AN 381 Indigenous Peoples of North America (4 credits)**

Features selected culture areas of North America, focusing variously on American and Middle American Indians as well as the Eskimos. Emphasis placed on adaptation to contact with Western cultures.

Prerequisite: AN 102 or permission of the instructor.

### **AN 400 History of Anthropological Theory (4 credits)**

Traces the historical development of theory in anthropology. Emphasis is placed upon recurring problems of theoretical and empirical import to the growth of the discipline as a whole.

Prerequisite: AN 200 or permission of the instructor.

### **AN 480 Independent Study and Research (2 or 4 credits)**

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

Prerequisites: Major standing in anthropology or related majors and permission of the instructor.

### **AN 490 Current Problems in Anthropology (2 or 4 credits)**

An advanced seminar in which a topic or problem is studied in depth. Each seminar requires students to do independent reading and writing.

Prerequisites: Major standing in anthropology or related majors and permission of the instructor.

## **Sociology**

### **SOC 200 Introduction to Sociology of Education (4 credits)**

Designed primarily for the secondary education major, this course examines the public school system within the context of contemporary social, political, and economic realities. Discusses unionization, the bureaucratic structure of the school, informal organizations within the school, and the special problems of minority groups.

Prerequisites: UC 058 and ED 224 or permission of the instructor.

### **SOC 201 Population Theory and Problems (4 credits)**

Provides an historical analysis of world population growth, focusing upon the relationships among population size, population policy, and social and economic development.

Prerequisite: UC 058 or permission of the instructor.

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### **SOC 202 Character and Social Structure (4 credits)**

A study of the relationship of the individual to society from the point of view of the impact of society upon the individual.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 203 Social Statistics (4 credits)**

Focuses upon problems of data analysis on the nominal and ordinal levels of measurement. Includes survey sampling, scale and index construction, non-parametric statistics, population indices and statistics, and some elementary model building. Requires the equivalent of high school algebra.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 221 Sociology of Crime and Punishment (4 credits)**

A study of the various forms of deviance, from illness and juvenile delinquency to habitual crime; and an analysis of sociological theories developed to explain the phenomenon of crime. A study of modes of control from hospitals to penitentiaries.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 231 Racial and Cultural Relations (4 credits)**

A study of racial, national, and religious groups in cross-cultural perspective. Emphasis will be placed on their historical development, on special problems of adjustment and assimilation, and on specific present-day problems and trends.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 232 Black Communities in the New World (4 credits)**

A comparative study of sub-Saharan migration to the New World with emphasis upon the urban United States. After an historical survey of African migration to the New World and a comparative analysis of the structure and status of New World black communities, the course will undertake a concrete sociological analysis of the urban black community and the structure and function of racism in American society.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 255 Industrial Sociology (4 credits)**

A study of the relationship between industrial and business organizations and the community; the history of industrial sociology; the study of occupations; the social structure of business and industrial organizations, labor unions, and informal work groups; and the character of occupational life in America.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 260 Urban Sociology (4 credits)**

The social structure, culture, and ecology of early and contemporary urban communities; institutional responses to the problems of modern urban life.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 280 Directed Readings in Sociology (4 credits)**

A tutorial course primarily for non-majors interested in research on a special problem. May not be repeated for credit.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 300 Social Stratification in Cross-Cultural Perspective (4 credits)**

A course which examines the concepts of class, caste, and race in terms of social conflict and social integration. Students will study these problems in a cross-cultural perspective placing emphasis upon comparative materials. Identical with AN 300.

Prerequisite: AN 102 or UC 058 or permission of the instructor.

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### **SOC 305 Sociology of Religion (4 credits)**

An analysis of the changing relationship between social structure and religion. Comparative materials will be examined from pre-industrial societies, Europe during the Protestant Reformation, and the contemporary United States.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 306 Philosophical Bases for Social Research (4 credits)**

A course in the philosophy of the social sciences beginning with Hume and including the Marxists, the Social Darwinists, the cultural determinists, contemporary functionalism, and phenomenology. Emphasis placed upon the assumptions various schools of thought have made about reality and the constraints imposed by these assumptions for consideration of reality.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 307 Methods of Social Research (4 credits)**

Examines problems and techniques of measurement in contemporary sociological research. Principal concern is with a survey of the diversity of methods available to the sociologist.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 310 Contemporary Sociological Theory (4 credits)**

A study of contemporary sociological theory starting with Veblen, G. H. Mead, and W. I. Thomas and examining the works of R. K. Merton, Talcott Parsons, Seymour Lipset, William Goode, and S. N. Eisenstadt.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 311 Classical Sociological Theories (4 credits)**

A study of classical sociological theory stressing the works of Comte, Marx, Durkheim, Pareto, Weber, Simmel, and Freud.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 321 Sociological Theory (Conflict Theories) (4 credits)**

A study of sociological theory with an emphasis upon Marxist theories. Readings will be selected from current and classic theorists.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 330 The Sociology of Youth (4 credits)**

A cross-cultural analysis of the emerging youth culture in industrial societies. Emphasis will be placed upon the economic, social, and political consequences for the rest of society of the emergence of this youth culture.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 335 The Family (4 credits)**

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

Prerequisite: UC 058 or permission of the instructor.

### **SOC 336 Sex Roles in Modern Society (4 credits)**

An examination of the effects of ideological and technological change on the statuses, occupations, and relationships of males and females in various stages of life.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 341 Social Change (4 credits)**

The prediction and explanation of social changes in society. Special attention may be given to such mechanisms of change as crowds, publics, mass movements, social move-

## ARTS AND SCIENCES

ments, revolutions, wars of national liberation, and total cultural revolutions. Implications for social action are discussed.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 345 Sociology of International Relations (4 credits)**

Principles of subordination and superordination and conditions for cooperation will be studied as they apply to systems of economic and political exchange among nations.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 355 Sociology of Occupations and Professions (4 credits)**

An analysis of the structure of major occupations and especially of the major professions, in terms of their publics, their mandates, their clients, and the career lines they offer. Comparisons between "incomplete professions," such as nursing and undertaking and full-fledged professions are made.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 360 Political Sociology (4 credits)**

An analysis of the sociological factors which influence the distribution of power within a society. Political communication, the maintenance of consensus, the process of revolution, the structure of political parties, and the emergence of new states will be studied; emphasis will vary according to the research interests of the instructor.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 380 Sociology of Bureaucracy (4 credits)**

A study of bureaucratic forms of organization. Systematic study of theories of bureaucracy and theories of organizational change.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 390 American Society (4 credits)**

A survey of the culture and social structure of American society. The course will examine American patterns of kinship, family structure, and social stratification.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 392 Comparative Institutions in France and America (4 credits)**

A comparative survey of the cultures and social structures of French society and American society. This course will describe and analyze patterns of kinship, religion, politics, and social stratification.

Prerequisite: UC 058 or permission of the instructor.

### **SOC 480 Independent Study and Research (2 or 4 credits)**

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

Prerequisites: Major standing in sociology or related majors and permission of the instructor.

### **SOC 490 Special Topics in Sociology (2 or 4 credits)**

An advanced seminar in which a topic or problem is studied in depth. Each seminar requires students to do independent reading and writing.

Prerequisites: Major standing in sociology or related majors and permission of the instructor.

## INTERDEPARTMENTAL PROGRAMS AND COURSES

### THE AREA STUDIES PROGRAM

#### COMMITTEE ON AREA STUDIES

- S. Bernard Thomas (East Asia), Chairman  
 Charles W. Akers (History)  
 Richard W. Brooks (Philosophy — India)  
 John C. Galloway (Art — Africa)  
 James D. Graham (History — Africa)  
 Edward J. Heubel (Political Science)  
 Robert C. Howes (History — Russia)  
 Nahum Z. Medalia (Sociology and Anthropology)  
 Robert E. Simmons (Modern Languages)  
 Amitendranath Tagore (Modern Languages — China — India)  
 Richard P. Tucker (South Asia)

The area studies program is dedicated to the understanding of living civilizations whose various aspects — language, history, government, social organization, literature, and so on — form the basis of studies primarily within the traditional departments. A concentration in area studies might be considered by any student who seeks an integrated view of a civilization out of intellectual curiosity as well as by the student who looks forward to a career in government service or journalism, to foreign residence or work, or to graduate study with an area emphasis. At present, Oakland University offers area programs in East Asian studies (China), South Asian studies (India and Pakistan), Slavic studies (Russia and Eastern Europe), and African studies. A parallel program in Latin American studies is now rapidly developing as a further component in the area studies program.

Area concentrations are available only on a joint basis with a department and consist of a modified departmental major combined with a concentration in area studies, including work in the language of the area. Concentrations are now offered in combination with the Departments of Art, History, Modern Languages and Literatures, Philosophy, Political Science, and Sociology and Anthropology. Appropriateness in combining an area specialization and a department, and the suitability of specific course requirements for a joint degree, depend in large measure upon the interests and the career plans of each student.

## ARTS AND SCIENCES

### I. Programs Offered by the Language and Area Center for East Asia

(The China program is offered by Oakland University's Language and Area Center for East Asia, established in 1965 with the support of a continuing grant from the U.S. Office of Education, under the National Defense Education Act.)

#### FACULTY OF THE CENTER

S. Bernard Thomas, Director  
Ralph F. Glenn (Art)  
Robert C. Howes (History)  
Robert J. Krompart (History)  
John Marney (Chinese Language and Literature)  
Paul Michaud (History)  
Shih-Chen Peng (Chinese Language and Literature)  
John E. Rue (Political Science)  
I. Michael Solomon (History)  
Amitendranath Tagore (Chinese Language and Literature)  
Sheldon L. Appleton (Political Science)

#### COURSE OFFERINGS

(For detailed course descriptions, see entries under individual departments.)

##### Chinese Language and Literature courses

<b>ART</b>	<b>435</b>	<b>Chinese Art</b>
<b>HST</b>	<b>370</b>	<b>China: Beginnings to Mid-T'ang, ca. 750</b>
<b>HST</b>	<b>371</b>	<b>China: Mid-T'ang to the Peak of Manchu Power, ca. 1880</b>
<b>HST</b>	<b>373</b>	<b>Nineteenth Century China</b>
<b>HST</b>	<b>374</b>	<b>Nationalism and Communism in China</b>
<b>HST</b>	<b>377</b>	<b>Japan to 1800</b>
<b>PHL</b>	<b>250</b>	<b>Philosophies and Religions of Asia</b>
<b>PHL</b>	<b>351</b>	<b>Chinese Philosophy</b>
<b>PS</b>	<b>338</b>	<b>Modern Chinese Politics</b>
<b>PS</b>	<b>339</b>	<b>Sino-Soviet Relations</b>
<b>AS</b>	<b>381</b>	<b>Seminar in East Asian Studies</b>

**AS 390 Directed Readings in Area Studies**

**AS 490 Directed Research in Area Studies**

(See p. 182 for descriptions of AS 381, 390, and 490.)

### **PROGRAM OPTIONS AND REQUIREMENTS**

Admission to the following programs in Chinese studies requires successful completion of UC 062, two semesters (10 credits) of Chinese, and major standing within a cooperating department. Interested students should consult with the director of the East Asia Center as early in their college careers as possible. For the specific program options and requirements see below.

#### **Major in Chinese Language and Civilization**

The requirement in Chinese for this major is eight courses (36 credits) ordinarily CHE 114-115, 214-215, and four others selected from departmental offerings in consultation with an adviser. Five area courses (20 credits), selected from the above list and including AS 490, are also required.

#### **The Concentration in Chinese Studies**

The concentration is offered in combination with a modified departmental major in anthropology, history, political science, philosophy, or sociology. The requirements are: six courses (24 credits) in the major department, two years (20 credits) of Chinese language, and five additional area courses (20 credits) from the above list, including AS 490.

## **II. The South Asian Studies Program**

### **FACULTY**

Richard W. Brooks (Philosophy), Coordinator  
Peter J. Bertocci (Sociology and Anthropology)  
Carlo Coppola (Linguistics and Modern Languages)  
Herbert M. Heidenreich (Political Science)  
John Hurd II (Economics)  
Amitendranath Tagore (Modern Languages)  
Richard P. Tucker (History)

### **COURSE OFFERINGS**

(For detailed course descriptions, see entries under individual departments.)

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### Hindi-Urdu Language and Literature courses

(In special cases Sanskrit or Bengali may constitute an alternative to Hindi-Urdu, with consent of the coordinator of South Asian studies.)

<b>AN/SOC</b>	<b>300</b>	<b>Social Stratification in Cross-Cultural Perspective</b>
<b>AN</b>	<b>361</b>	<b>Contemporary South Asian Society</b>
<b>ART</b>	<b>400</b>	<b>Oriental Art</b>
<b>ECN</b>	<b>223</b>	<b>The Indian Economy</b>
<b>HST</b>	<b>382</b>	<b>Mughal and British India, 1526-1860</b>
<b>HST</b>	<b>383</b>	<b>India: The Nationalist Era, 1860-1947</b>
<b>PHL</b>	<b>250</b>	<b>Philosophies and Religions of Asia</b>
<b>PHL</b>	<b>352</b>	<b>Indian Philosophy</b>
<b>PS</b>	<b>334</b>	<b>Political Systems of Southern Asia</b>
<b>AS</b>	<b>382</b>	<b>Seminar in South Asian Studies</b>
<b>AS</b>	<b>390</b>	<b>Directed Readings in Area Studies</b>
<b>AS</b>	<b>490</b>	<b>Directed Research in Area Studies</b>

(See p. 182 for descriptions of AS 382, 390, and 490).

### The Concentration in South Asian Studies

The concentration is offered in combination with a modified departmental major in anthropology, history, political science, philosophy, or sociology. The requirements are: six courses (24 credits) in the major department, two years (20 credits) of an Indian language, and five additional area courses (20 credits) from the above list, including AS 490.

Formal admission to the concentration requires completion of UC 066, two semesters (10 credits) of an Indian language, and major standing within a cooperating department. Interested students should consult with the coordinator of South Asian studies as early in their college careers as possible.

## III. The Slavic Studies Program

### FACULTY

Robert C. Howes (History), Coordinator  
Leonard Bushkoff (History)

## ARTS AND SCIENCES

Lee M. Corrigan (Russian Language and Literature)  
Jerry M. Freeman (Russian Language and Literature)  
Dmytro Ijewliw (Russian Language and Literature)  
Helen Kovach (Russian Language and Literature)  
James R. Ozinga (Political Science)

### COURSE OFFERINGS

(For detailed course descriptions, see entries under individual departments.)

#### Russian Language and Literature courses

<b>ART</b>	<b>465</b>	<b>Byzantine Art</b>
<b>HST</b>	<b>251, 252</b>	<b>Introduction to Russian History</b>
<b>HST</b>	<b>352</b>	<b>Kiev and Muscovy</b>
<b>HST</b>	<b>353</b>	<b>Imperial Russia</b>
<b>HST</b>	<b>354</b>	<b>Soviet Russia</b>
<b>HST</b>	<b>355</b>	<b>Russian Intellectual History</b>
<b>HST</b>	<b>356</b>	<b>Russian Foreign Policy, 1700-1960</b>
<b>PS</b>	<b>277</b>	<b>Communism</b>
<b>PS</b>	<b>337</b>	<b>The Soviet Political System</b>
<b>PS</b>	<b>339</b>	<b>Sino-Soviet Relations</b>
<b>AS</b>	<b>383</b>	<b>Seminar in Slavic Studies</b>
<b>AS</b>	<b>390</b>	<b>Directed Readings in Area Studies</b>
<b>AS</b>	<b>490</b>	<b>Directed Research in Area Studies</b>

(See p. 182 for descriptions of AS 383, 390, and 490.)

### PROGRAM OPTIONS AND REQUIREMENTS

Admission to the following programs in Slavic Studies requires completion of HST 251 or 252, two semesters (10 credits) of Russian, and major standing within a cooperating department. Interested students should consult with the coordinator of the Slavic studies program as early in their college careers as possible. For the specific program options and requirements, see below.

#### The Concentration in Slavic Studies

The concentration is offered in combination with a modified

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departmental major in anthropology, history, political science, philosophy, or sociology. The requirements are: six courses (24 credits) in the major department, two years (20 credits) of Russian language, and five additional area courses (20 credits) from the above list, including HST 251 or 252, PS 337, and AS 490.

### IV. Interdepartmental Courses Offered Towards the Area Concentrations

**AS 381 Seminar in East Asian Studies (4 credits)**

Offered to supplement departmental area courses. An intensive study of selected topics dealing with East Asia. May be taken more than once.  
Prerequisite: UC 062.

**AS 382 Seminar in South Asian Studies (4 credits)**

Offered to supplement departmental area courses. An intensive study of selected topics dealing with South Asia. May be taken more than once.  
Prerequisite: UC 066.

**AS 383 Seminar in Slavic Studies (4 credits)**

Offered to supplement departmental area courses. An intensive study of selected topics dealing with the Slavic area. May be taken more than once.  
Prerequisite: HST 251 or 252.

**AS 384 Seminar in African Studies (4 credits)**

Offered to supplement departmental area courses. An intensive study of selected topics dealing with Africa. May be taken more than once.  
Prerequisite: UC 064.

**AS 390 Directed Readings in Area Studies (4 credits)**

Readings from diverse disciplines with focus on a student's area of specialization. Conducted on a tutorial basis by an instructor chosen by the student. Requires approval of the chairman of the Committee on Area Studies prior to registration.  
Prerequisites: UC 062, UC 064, UC 066, or HST 251 or 252, as appropriate, and permission of the instructor.

**AS 490 Directed Research in Area Studies (4 credits)**

Research relating to the student's area of specialization including completion of a senior essay or research paper. May be offered as a seminar or as a tutorial. Supervised by an instructor from the area studies staff. Approval of the instructor and of the chairman of the Committee on Area Studies are required prior to registration.  
Prerequisites: Senior standing and admission to an area concentration.

## THE CONCENTRATION IN LINGUISTICS

### COMMITTEE

William Schwab (English), Chairman  
John W. Barthel (German)  
Benjamin F. Cheydleur (Computer Center)  
Carlo Coppola (Hindi-Urdu)

Daniel H. Fullmer (English)

Donald C. Hildum (Psychology)

Don R. Iodice (French)

George T. Matthews (Dean, College of Arts and Sciences)

Modern, or general, linguistics is concerned with the systematic study of language, the mode of communicative behavior most characteristic of humanity. Work in general linguistics provides a way of thinking which, to take only two extremes, is both as rigorous as the mathematician's and as broadly humanistic as the historian's. The concentration in linguistics is intended to provide students with a firm but extensive grounding in the discipline of modern linguistics within the context of one of the regular departmental major programs of instruction. Career possibilities for students with work in general linguistics are numerous and growing. Graduate work in linguistics is a rapidly developing field. Government and private industry are eager for people with a background in the subject. Foreign and native language instruction increasingly places emphasis on linguistics. Many graduate programs in the social sciences recommend or require work in general linguistics as part of their degree requirements.

### **Requirements for the Concentration in Linguistics**

The concentration in linguistics is available only on a joint basis with a department in the College of Arts and Sciences or with the School of Engineering. A wide range of such combinations is possible: Students may major in English, modern languages, mathematics, history, philosophy, psychology, biology, engineering, physics, sociology, and anthropology (other majors might also be considered) and may concentrate in linguistics at the same time. But the student must first be admitted to a departmental major and secondly be accepted into the concentration upon application to the Committee on Linguistics. His or her program will then be developed by joint action between the department and the Committee. Interested students should consult the Committee as early as possible in their college careers. Four courses (LIN 301, LIN 302, and two courses above the 200 level) constitute the minimum of work directly in the concentration. Other courses may be recommended.

Concentrations in linguistics have to date been authorized by the Departments of English Language and Literature, Modern Languages and Literatures, Philosophy, Psychology, and Sociology and Anthropology. Distribution requirements for concentrations in linguistics are as follows:

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### **MAJOR IN ANTHROPOLOGY**

The linguistics concentration for the anthropology major requires:

- (a) five courses (20 credits) in linguistics, and,
- (b) five courses (20 credits) in anthropology.

The courses in anthropology must include AN 101 and AN 102, and any other three courses in anthropology. The courses in linguistics must include LIN 301, LIN 302, and three other courses in linguistics above the 200 level.

### **MAJOR IN ENGLISH**

The linguistics concentration for the English major requires:

- (a) five courses (20 credits) in linguistics, and,
- (b) six courses (24 credits) in English literature.

The courses in literature must include ENG 140, 224, 241, 242, and two other courses above the 200 level to be selected in consultation with the student's adviser. The five courses in linguistics must include LIN 301, LIN 302, LIN 403, LIN 404, and one elective, either in linguistics or a course in English language analysis or history, such as ENG 376 or 377.

### **MAJOR IN MODERN LANGUAGES (FRENCH, GERMAN, RUSSIAN, SPANISH)**

The linguistics concentration for the French, German, Russian, or Spanish major requires:

- (a) five courses (20 credits) in linguistics, and
- (b) six courses (24 credits) in French, German, Russian, or Spanish language and literature beyond FRH, GRM, RUS, or SPN 215.

The modern language requirements are FRH, GRM, RUS, or SPN 261-262, 271, 272, 361, and one course at the 400 level. The linguistics requirement includes LIN 301, LIN 302, LIN 403, LIN 404, and one elective. In addition, the modern language major must take FRH, GRM, RUS, or SPN 365, the applied linguistics of a particular foreign language.

### **MAJOR IN PHILOSOPHY**

The linguistics concentration for a philosophy major requires:

- (a) five courses (20 credits) in linguistics, and
- (b) six courses (24 credits) in philosophy.

The five courses in linguistics must include LIN 301, LIN 302, LIN 403, LIN 404, and one elective in linguistics. The six courses

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in philosophy must include PHL 370, PHL 375, and one course in the history of Western philosophy (PHL 204, 205, 206, or 207).

### MAJOR IN PSYCHOLOGY

The linguistics concentration for a psychology major requires:  
(a) four courses (16 credits) in linguistics, and  
(b) six courses (24 credits) in psychology.

Five of the six psychology courses must be PSY 146, PSY 231, PSY 351 or 352, PSY 353, and PSY 435. Arrangements may be made for a psycholinguistics major to substitute a linguistic or other cognate course for the unspecified sixth psychology course. The linguistics courses are LIN 301, LIN 302, LIN 403, LIN 404.

### LINGUISTIC REQUIREMENTS

The linguistics requirements are those specified above for each department, but a student may be allowed certain substitutions by permission of the Committee on Linguistics.

### COURSE OFFERINGS

#### **LIN 176, 177      The Nature of Language      (4 credits each)**

The first semester deals with language as a conceptual system and with the inter-relationships of language and other cultural subsystems. Language and dialects, acquisition both of native and of foreign languages, the psychology of communication, and other topics related to the nature of language are examined. The second semester studies the relationship between speech and writing; phonological, grammatical, and semantic systems; the history of language; the application of linguistic principles to language learning, stylistic analyses, and the teaching of standard dialects. Identical with ENG 176, 177.

#### **LIN 200      Topics in Linguistics      (4 credits)**

Topics and problems selected by the instructor.

#### **LIN 301      Linguistic Structures      (4 credits)**

An introduction to synchronic linguistic analysis, with structural problems in natural languages.

#### **LIN 302      Historical Linguistics      (4 credits)**

Diachronic linguistic analysis: language change, dialect geography, establishment of genealogical relationships, and the reconstruction of earlier stages of languages. Prerequisite: LIN 301 or equivalent.

#### **LIN 365      Applied Linguistics      (4 credits)**

A series of sections in French, German, Russian, and Spanish are offered in this course. Identical with FRH, GRM, RUS, and SPN 365.

#### **LIN 401      Phonetics      (4 credits)**

An introduction to articulatory and acoustic descriptions of spoken language, and

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training in the recognition and production of sounds found in languages other than English.

Prerequisite: LIN 301 or equivalent.

### **LIN 403 Phonology (4 credits)**

Structural theory of phonemics and morphophonemics; generative theory of phonology; supervised work with informants applying those theories to a variety of linguistic problems.

Prerequisites: LIN 301, LIN 302.

### **LIN 404 Grammatical Analysis (4 credits)**

A presentation of theory and application of morphological and syntactical analyses, with emphasis on work with original material.

Prerequisites: LIN 301, LIN 302.

### **LIN 410 Studies in the Structure of a Language (4 credits)**

A study of the structural aspects of an individual language to be determined by the instructor. Among the languages for study are French, German, Hindi-Urdu, Sanskrit.

Prerequisites: LIN 301 and LIN 302 or permission of the instructor.

### **LIN 428 The Teaching of English as a Foreign Language (4 credits)**

A study of modern techniques of teaching pronunciation, grammar, and vocabulary. The preparation and use of language tests; laboratory techniques.

Prerequisite: LIN 301 or permission of the instructor.

### **LIN 480 Seminar in Linguistics (4 credits)**

Topics and problems selected by the instructor.

Prerequisites: LIN 301 and LIN 302 or permission of the instructor.

### **LIN 490 Independent Study (4 credits)**

Special research projects in linguistics.

Prerequisite: Permission of the Committee on Linguistics.

## COURSES OF RELATED INTEREST

### ENGLISH

**ENG 376 History of the English Language (4 credits)**

**ENG 377 Modern English Grammar (4 credits)**

**ENG 382 Old English (4 credits)**

### LANGUAGES

**GRK 114-115 Elementary Greek (4 credits each)**

**GRK 214-215 Intermediate Greek (4 credits each)**

**HIUR 114-115 First Year Hindi-Urdu (5 credits each)**

**HIN 214-215 Second Year Hindi (5 credits each)**

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URD	214-215	Second Year Urdu	(5 credits each)
LTN	114-115	Elementary Latin	(4 credits each)
LTN	214-215	Intermediate Latin	(4 credits each)
CHE	114-115	First Year Chinese	(5 credits each)
CHE	214-215	Second Year Chinese	(5 credits each)

### PHILOSOPHY

PHL	370	Systems of Logic	(4 credits)
PHL	375	Philosophies of Language	(4 credits)

### PSYCHOLOGY

PSY	435	Psychology of Communication	(4 credits)
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## THE CONCENTRATION IN PREMEDICAL STUDIES

Students intending to pursue careers in the medical or dental professions are expected to complete the concentration in premedical studies. The concentration consists of a series of courses in biology, chemistry, mathematics, and physics intended to satisfy the minimum requirements for admission to the various medical and dental schools in Michigan and elsewhere. In general, the concentration is completed with the following courses:

- (a) Biology: 3 courses (15 credits), including laboratories.
- (b) Chemistry: 4 courses (20 credits), including laboratories.
- (c) Mathematics: 2 courses (8 credits).
- (d) Physics: 2 courses (10 credits), including laboratories.

The premedical studies concentration does not constitute a major. Students must select a major from among those offered by the University. Each student in the concentration will be assigned a premedical adviser who will assist the student in planning his or her academic program for as long as the student is enrolled in the concentration.

## SOCIAL STUDIES PROGRAM\*

### Requirements for the Secondary Teaching Major in Social Studies

This major has been devised for students who plan to teach social studies in junior or senior high school. The program provides

\*The social studies program is under study and is subject to revision. For information consult the Department of Political Science or the Admissions Office.

## ARTS AND SCIENCES

a broad background in the social sciences and related fields. Admission to major standing requires successful completion of ED 244 and two courses in the social sciences and the concurrent approval of the major adviser and the School of Education. The program requires:

- (a) Either UC 054 or PSY 146.
- (b) ED 244, 245, ED 428, and ED 455.
- (c) Area Studies: 8 credits.
- (d) Social Sciences: 20 credits. For purposes of this program, the Departments of Economics, Political Science, Psychology, and Sociology and Anthropology are defined as the departments of the social sciences. The 20 credits may be distributed among these departments, with a concentration of 12 credits in one department.
- (e) History: 8 credits.
- (f) If a student pursues this major and offers a minor in history, the requirement of 8 credits in history in the major does not apply. Instead, an additional 8 credits in the social science chosen for the concentration are required.

In this program, University Courses, Freshman Exploratories, and the Senior Colloquium may, when appropriate, be counted in meeting the required totals. Courses in geography may also be counted in the major.

In consultation with the adviser, a number of minors may be selected to accompany the social studies major. Recommended minors include history and English.

### Requirements for the Teaching Minor in Social Studies

The minor requires a minimum of 24 credits selected from courses offered by the social science departments or courses in area studies, geography, or Western history and philosophy. Included in this total are such Freshman Exploratories and Senior Colloquia as fall within the minor.

Students majoring in history who wish to elect a social studies minor must confer with the Placement Office and/or the Office of the School of Education before electing this program.

#### **SS 570 Social Studies in the Elementary School (4 credits)**

An intensive study of current trends, challenges, characteristics, and content of effective social studies programs, with emphasis on the relationships among discipline areas comprising the social studies. The course will stress application of these studies in urban area elementary schools.

Prerequisite: Education 245 and acceptance into a graduate or certification program or major standing in elementary education.

## OFF-CAMPUS STUDY PROGRAMS

Oakland University offers a variety of opportunities for off-campus study. They include participation in overseas study programs, the field term semester offered to students of New College, and an independent study program.

There have been six one-semester overseas study programs sponsored by the University in the last four years, including programs in Mexico, Hong Kong, and various areas of western Europe. No department or curriculum at Oakland requires students to study abroad at any time, nor does any department sponsor a regular agenda of overseas study programs. Rather, the departments and faculties sponsor these programs on an ad hoc basis, the time and format of the individual projects reflecting the interests and qualifications of the faculty sponsors and the student participants. Proposals for overseas study programs are reviewed by the Committee on Overseas Study Programs, which counsels the prospective faculty and student participants on the ways and means of maximizing the benefits of such programs; helps the faculty sponsors design proposals consistent with the general standards of the University; and helps departmental chairmen, deans, and the Provost assess the relevance, quality, and feasibility of such proposals.

A special off-campus program is part of the curriculum of New College and is open only to students of that college. This field term component, implemented in the second semester of the sophomore year, entails individually designed work-study projects.

A third option is an off-campus independent study program open to all students in good standing who have successfully completed two semesters at Oakland University. This program allows a student to propose his or her own course of study for the semester off-campus, provided he or she has received the support and the involvement of three faculty members and the approval of the dean. The following standards and procedures apply to this program:

- (1) Any undergraduate student in good standing will be eligible to participate in the program after the completion of two semesters in residence.
- (2) A written proposal describing a course of activity will be prepared by a student applicant prior to beginning the program.
- (3) This proposal and the off-campus work it describes must receive the support and involvement of at least three members of the faculty and the approval of the dean.
- (4) All arrangements for off-campus work must be completed and

## ARTS AND SCIENCES

filed by the end of the advising period in the semester preceding the semester of off-campus study.

(5) It is expected that part of the preparatory work will include the designation of course equivalents totaling at least eight credits for the independent study to be accomplished. This is to be effected by negotiation with the supporting faculty members.

(6) Whenever credit is sought toward the completion of a major, the department, through its chairman, must agree to the value of the independent work.

(7) The Dean of Students' Office will require a release from parents absolving the University of responsibility for the well-being of students under twenty-one years of age while they are participating in off-campus independent study.

(8) The initial approval of a program for a student will be for one semester with the provision that the student may request an extension of the program for additional semesters.

(9) The student must be registered at Oakland University and pay the required fees during the period of independent study.

All credit-granting, off-campus study programs sponsored by Oakland University, including those which go overseas, are administratively coordinated by the Office of Off-Campus Study Programs. It is the responsibility of this Office to meet the needs of those who participate in these programs; and to plan and implement, when necessary, the arrangements for room, board, and travel accommodations. Since these administrative services may entail costs to the University not normally associated with the instructional offerings given on the home campus, participating students may be asked, when appropriate, to pay an additional fee to help defray some of the extraordinary costs associated with particular programs.

Students interested in overseas study programs sponsored by other universities and organizations, both domestic and foreign, should contact the Overseas Study Information Center located in the Office of the Dean of Students. Information on work-study opportunities sponsored by institutions other than Oakland University can be obtained from the Placement Office.

## MISCELLANEOUS COURSES

### GEOGRAPHY

**GEO 200**     **Geography**

**(4 credits)**

A general survey of selected regions of the world with an emphasis on the problems

## ARTS AND SCIENCES

of political geography, but including aspects of cultural and economic geography.

### SCIENCE

#### Requirements for the Teaching Minor in Science

The minor requires a minimum of 24 credits, selected from courses offered by the Departments of Biological Sciences, Chemistry, and Physics. Course selections must cover two of the three disciplines and must include 12 credits in each discipline applied to the minor. Hence the following options are available: chemistry-biology; chemistry-physics; biology-physics. All courses must be at the levels of BIO 111, CHM 114, PHY 151, or above, and they may not include courses in the discipline of the student's major.

#### **SCI 305 Science in the Elementary School (4 credits)**

Content and methodology appropriate to students in the elementary education program.

Prerequisite: Major standing in elementary education.

#### **SCI 505 Basic Concepts and New Developments in Science (4 credits)**

Basic concepts in science and science methodology. An intensive study of one science area (e.g. biology, chemistry, physics, etc.) and a study of the new curricula in science for the elementary school.

Prerequisite: Admission to course in a graduate program in elementary education or permission of the instructor.

### SPEECH

#### **SPH 201 Effective Communication (4 credits)**

Theory and practice in communication with emphasis on the adaptations required by particular goals, audiences, and occasions. Through the researching, organizing, writing, and delivery of classroom and extra-classroom communications (interview, informative, persuasive, manuscript, impromptu, oral interpretation, group discussion, etc.), students are prepared for a variety of communicative situations and needs. Videotaped student speeches and classroom interaction aid in identifying, and thereby correcting or enhancing, individual personality and delivery characteristics. Also included are activities and discussions on related topics such as mass media influence, educational methodology, and journalism.

#### **SPH 301 Advanced Communication (4 credits)**

Continuation of SPH 201, with emphasis on persuasion: analysis of persuasion in current society, including confrontation, activism, extremism, etc.; psychological bases of persuasion; ethical considerations; and distinctions between debate and persuasive argument. Classroom activities also include role-playing, self-evaluation through video-taping, and decision-making group discussions.

### COOPERATIVE ARRANGEMENT WITH THE MIDRASHA COLLEGE OF JEWISH STUDIES

A number of courses related to Hebraic culture and civilization

## ARTS AND SCIENCES

will be offered in cooperation with the Midrasha College of Jewish Studies beginning in the academic year 1970-71. The courses will entail a systematic analysis of the historic and contemporary experiences of the Jewish people, as reflected in the literature, philosophy, religion, language, and social patterns of many countries and civilizations.

The Midrasha is an undergraduate institution located in Southfield, Michigan, which specializes in Hebraic and Judaic studies. The College provides intensive academic and professional training and grants both the degree of Bachelor of Hebrew Literature and the degree of Bachelor of Jewish Studies.

The courses offered through this cooperative arrangement do not represent a separate or distinct program or major field of concentration. Rather courses in such subjects as Old Testament literature, the ancient Near East, contemporary Jewish philosophical thought, and the Hebrew language will be offered within existing programs sponsored by the Departments of Classical Languages and Literatures, English Language and Literature, History, Modern Languages and Literatures, and Philosophy.

## GRADUATE STUDIES IN THE COLLEGE OF ARTS AND SCIENCES

The following departments offer instruction leading to the degree of Master of Arts:

- English Language and Literature
- Mathematics
- Psychology

The following departments offer instruction leading to the degree of Master of Science:

- Chemistry
- Physics

The following departments, jointly with the School of Education, offer instruction leading to the degree of Master of Arts in Teaching:

- English Language and Literature
- Mathematics

For further information concerning these programs, see the Graduate Bulletin.

# SCHOOL OF ECONOMICS AND MANAGEMENT

## OFFICERS OF ADMINISTRATION

NORTON C. SEEBER

Dean

## OFFICERS OF INSTRUCTION

DONALD D. O'DOWD

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

Chancellor  
Provost

ELEUTHERIOS N. BOTSAS

B.S., University of Detroit; M.A., Wayne State University;  
Ph.D., Wayne State University

Assistant Professor of Economics

ANTHONY P. CEPHALAS

B.Sc., London School of Economics

Instructor in Economics

DAVID P. DOANE

B.A., University of Kansas; M.S., Purdue University;  
Ph.D., Purdue University

Assistant Professor of Economics

KARL D. GREGORY

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M.A., Wayne State University; Ph.D., University of Michigan

Associate Professor

of Economics and Management

ROBBIN R. HOUGH

B.A., Montana State University;

Ph.D., Massachusetts Institute of Technology

Associate Professor

of Economics and Management

JOHN HURD II

B.A., Yale University; Ph.D., University of Pennsylvania

Assistant Professor of Economics

SIDDHESHWAR MITTRA

B.Com., Agra University (India);

M.Com., Agra University (India); Ph.D., University of Florida

Chairman, Department of Economics

Professor of Economics

LON POLK

B.A., San Jose State College; Ph.D., University of Michigan

Assistant Professor of Economics

NORTON C. SEEBER

B.S., University of Colorado; M.A., University of Colorado;  
Ph.D., University of California (Berkeley)

Dean, School of Economics and Management

Professor of Economics and Management

## ECONOMICS AND MANAGEMENT

JOHN E. TOWER Assistant Professor  
B.S.E., University of Michigan; of Economics and Management  
M.B.A., University of Michigan;  
Ph.D., State University of New York at Buffalo

THEODORE O. YNTEMA Visiting Professor  
A.M., University of Illinois; of Economics and Management  
A.M., University of Chicago; Ph.D., University of Chicago

KENNETH C. YOUNG Assistant Professor  
B.A., Carson-Newman College; of Economics and Management  
M.B.A., Harvard University; M.S., Purdue University;  
Ph.D., Purdue University

The School of Economics and Management offers a program in management leading to the degree of Bachelor of Science. In addition to this degree program, the economics faculty of the School administers the liberal arts program in economics leading to the degree of Bachelor of Arts in the College of Arts and Sciences. Descriptions of the two degree programs follow.

### UNDERGRADUATE PROGRAM LEADING TO THE BACHELOR OF SCIENCE IN MANAGEMENT

The management program provides an education for management (i.e., the effective use of resources for defined objectives) rather than an education which describes the practices and institutions of business. It aims at developing the transferable skills which make adaptive and innovative learners, and it enables graduates to understand and manage changing situations, whether these be in private or public enterprises. In this program, a general education is combined with the development of analytical approaches which will enable the student to devise new answers to the increasingly complex and changing problems faced by managers and technical personnel in both private business and public organizations. Because education for management is a continuing process throughout a management career, the program seeks to give students the kind of experience that will provide the foundations for adaptability within the rapidly changing modern environment.

The management major obtains the necessary background for entering industry training programs or graduate schools of management, as well as for initial entry into many positions in business, government, and administration. The program's emphasis on analysis and tools, such as the computer, opens the way to

## ECONOMICS AND MANAGEMENT

positions in many areas characterized by rapidly developing technology and expanding employment opportunities.

The curriculum specifies a minimum of eight courses plus two laboratories (34 credits) in management; four courses and two laboratories are required: MGT 200, 201 (laboratory); MGT 210, 211 (laboratory); MGT 435; and either MGT 300 or MGT 442. In addition, three courses (12 credits) are required in economics (UC 056, ECN 216, ECN 217), three courses (12 credits) in mathematics (MTH 121, MTH 122, MTH 322), two courses (8 credits) in the behavioral sciences (UC 054 and PSY 261), two courses (8 credits) in the social sciences other than economics, and two courses (8 credits) in foreign languages or linguistics (to satisfy the general University requirement). The mathematics courses are designed for majors in management and the social sciences and emphasize applications rather than "pure" mathematics. The first two mathematics courses, MTH 121 and MTH 122, should be taken in the first two semesters. (MTH 154 may be substituted for MTH 122, or the MTH 154-155 sequence may be substituted for the MTH 121-122 sequence at the student's option.)

Admission to major standing requires completion of UC 056 (Introduction to Economics) plus ECN 216, ECN 217, and MGT 200, or equivalent courses. The program requires 124 credits for graduation, the Oakland University requirement, and leads to the degree of Bachelor of Science.

## CURRICULUM CHANGES

As part of the continuing process of growth at Oakland University, the curriculum in management has undergone recent changes. Its name has been changed from "business administration" to "management," providing a more accurate description of its goals and activities. The modified curriculum is effective for students entering the University in 1969-1970 and after. Students previously enrolled in the business administration program will continue to be governed by requirements for graduation valid at the time of their enrollment. However, students enrolled prior to 1969 may, at their option, satisfy either the present or older requirements for graduation (but they need not satisfy both sets of requirements). Further amplification of this rule may be obtained from departmental advisers.

## GENERAL EDUCATION

Oakland University requires all undergraduates in degree programs to participate in a series of courses designed to provide

## ECONOMICS AND MANAGEMENT

a broadening intellectual experience in liberal education. Management students usually satisfy this general education requirement by participating in the University Course Program. (Certain of the University Course requirements are satisfied in the prescribed management program, and students need not duplicate those courses.) The general education requirement may also be met by participating in Allport College, Charter College, or New College.\*

The Distribution Requirements for the University Course Program, the degree requirements for the Bachelor of Science in management, and the degree requirements for the Bachelor of Arts in economics are described below.

### University Course Program

The University Course Program consists of work in three prescribed divisions plus satisfactory completion of a language requirement:

(1) **Freshman Exploratories.** The student is required to complete two Freshman Exploratories within his or her first three semesters. Successful completion of the Freshman Exploratories satisfies the University's writing competency requirement. Each student, unless he or she has transferred equivalent credits from another institution, should take one and only one Freshman Exploratory (UC 01A-F) in each of his or her 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, Area Studies, and Science and Mathematics. Any student who has not completed two Exploratories satisfactorily in his or her 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 than two Exploratories, including equivalent credit for courses taken at other institutions.

(2) **Distribution Requirements.** Each student is required to pursue further study in the fields of Literature, Western History and Philosophy, Fine Arts, Social Sciences, Area Studies, and Science and Mathematics. These Distribution Requirements are normally met by courses elected throughout the student's eight semesters of study.

\*See this catalog pp. 44-53. Management students electing one of the latter options should plan their programs carefully, and they may find their freedom to choose electives limited.

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(a) Literature (4 credits)

Any one of the following courses: UC 018, ENG 105, ENG 111, ENG 140, or any course in foreign languages numbered 271 or higher.

(b) Western History and Philosophy (4 credits)

Any one of the following courses: UC 036, UC 037, ED 244, HST 141 or 142, and PS 272.

(c) Fine Arts (4 credits)

Either one of the following courses: UC 047 (Art) or UC 049 (Music).

(d) Social Sciences (8 credits)

All students must complete 8 credits in the social sciences by choosing one course in each of two different disciplines. Students may choose two courses, one each from a different group as follows: UC 052 (Introduction to American Politics) or PS 131 (Foreign Political Systems); UC 054 (Introduction to Social Psychology) or PSY 146 (Foundations of Contemporary Psychology); UC 056 (Introduction to Economics); UC 058 (Introduction to Sociology) or AN 102 (Man in Culture and Society).

(e) Area Studies (4 credits)

Students must complete 4 credits in the study of a civilization other than those of Europe and North America in one of the following area studies courses: UC 062 (China), UC 064 (Africa), UC 066 (India), or UC 068 (Latin America). Completion of one Freshman Exploratory is prerequisite for admission to these courses.

(f) Science and Mathematics (12 credits)

To satisfy this Distribution Requirement, every student must complete a minimum of 4 credits in science. This requirement may be fulfilled by any of the following courses: UC 086, UC 087, UC 088, or UC 089 (Sciences), or EGR 101, PHL 370, or any two departmental courses in science.

The social science requirement and 8 credits of the science and mathematics requirement are normally met in the course of the prescribed management program.

(3) **Senior Colloquium.** In his or her senior year, each student must participate in a Senior Colloquium in a field outside of his or her major. The Senior Colloquium serves to focus attention upon issues of liberal intellectual concern.

(4) **The Language Requirement.\*** In addition to the general

\*The language requirement is under study and is subject to revision. For information consult the Advising Office, the Admissions Office, the Registrar, or departmental advisers.

## **ECONOMICS AND MANAGEMENT**

education component just described, the instructional program of each student includes the requirement that he or she must have demonstrated that level of facility in a foreign language (or authorized equivalent) required by the major he or she elects. For the management major, the student is required to have demonstrated reading knowledge of a foreign language by successfully completing a second-semester course at the college level, or by placing beyond first-year language proficiency at the college level in an examination administered at admission. For students majoring in management, completion of the linguistics sequence, LIN 176 (ENG 176) and LIN 177 (ENG 177), is an alternative to demonstrating foreign language proficiency.

### **REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MANAGEMENT**

A student with a major in management must meet the following requirements in order to graduate:

1. Have completed at least 124 credits.
2. Have completed 32 credits at Oakland University. Have completed all the requirements for the major in management. A student must normally be registered at Oakland University for at least 8 credits during the semester in which the degree is to be conferred.
3. Have a cumulative grade point average in courses taken at Oakland University of at least 2.0.
4. Have completed at least 8 credits in electives.
5. Have completed at least 36 credits in the University Course Program, plus two Freshman Exploratories and a Senior Colloquium, or have completed an equivalent total of credits in Allport College, in Charter College, or in New College.
6. 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 the American history sequence (HST 214, 215).
7. Have fulfilled the foreign language requirement by (a) successfully completing a second-semester course in language at the college level, (b) placing beyond first-year language proficiency at the college level in an examination administered upon admission, or (c) completing LIN 176 (ENG 176) and LIN 177 (ENG 177).
8. Have successfully completed the Management Core Program,

## ECONOMICS AND MANAGEMENT

including MGT 200, MGT 210, MGT 435, and MGT 300 or MGT 442, or equivalent courses approved by the School, plus four (4) electives in management or economics.

9. Have successfully completed UC 056, ECN 216, ECN 217, UC 054, PSY 261, a two-course sequence in a social science other than economics, MTH 121, MTH 122, and MTH 322, or equivalent courses. (MTH 154 may be substituted for MTH 122, and the MTH 154-155 sequence may be substituted for the MTH 121-122 sequence.)

## BACHELOR OF SCIENCE IN MANAGEMENT

(A Typical Program)

### Semester 1

Freshman Exploratory

UC 056

MTH 121

Distribution Requirement

### Semester 3

MGT 200 and 201 (Computer Laboratory)

ECN 216

UC 054

Foreign Language  
or LIN 176

### Semester 5

MGT 300 or MGT 442

MTH 322

Social Science Course

Distribution Requirement

### Semester 7

Distribution Requirement

MGT Elective

Elective

MGT Elective

Elective

### Semester 2

Freshman Exploratory

MTH 122

Distribution Requirement

Distribution Requirement

### Semester 4

MGT 210 and 211 (Computer Laboratory)

ECN 217

PSY 261

Foreign Language  
or LIN 177

### Semester 6

MGT Elective

Social Science Course

Distribution Requirement

Elective

### Semester 8

Senior Colloquium

MGT 435

MGT Elective

Elective

## UNDERGRADUATE PROGRAM LEADING TO THE BACHELOR OF ARTS IN ECONOMICS

The liberal arts program in economics leads to the degree of Bachelor of Arts and is offered in the College of Arts and Sciences, under the direction of the faculty in economics of the School of Economics and Management. Students taking liberal arts majors, including that in economics, must satisfy the appropriate degree requirements in the College of Arts and Sciences as described in

## ECONOMICS AND MANAGEMENT

this catalog. The curriculum for the liberal arts major in economics emphasizes concepts and tools of analysis and their application to problems of economic and social policy. By learning ways of thinking in economics, students gain insight into how to approach economic questions in various applied areas. Students are prepared for careers in industry and government, or for graduate study in economics, law, management, or business administration.

In addition to the liberal arts major in economics, students in the School of Economics and Management may develop a concentration in economics through use of elective courses in economics.

### REQUIREMENTS FOR THE LIBERAL ARTS MAJOR IN ECONOMICS

The major in economics requires a total of 28 credits in economics, distributed as follows: UC 056, ECN 216, ECN 217, ECN 480, and three other courses in the Department, one of which must have as prerequisite ECN 216 and another of which requires ECN 217 as prerequisite. In addition, all majors must take one course in economic statistics with accompanying laboratory (either ECN 310, 311 or MGT 210, 211); they must complete two semesters (8 credits) of work in another social science; and they must take MTH 121-122 (preferably during their first year). (MTH 154 may normally be substituted for MTH 122, or the MTH 154-155 sequence may be substituted for the MTH 121-122 sequence.) Admission to major standing requires two Freshman Exploratories, plus UC 056, ECN 216, ECN 217, and MTH 121-122. Economics majors may fulfill the University foreign language requirement by (a) successfully completing a second-semester course in language at the college level, or (b) placing beyond first-year language proficiency at the college level in an examination administered upon admission, or (c) completing LIN 176 (ENG 176) and LIN 177 (ENG 177).

### LIBERAL ARTS MAJOR IN ECONOMICS

(A Typical Program)

#### Semester 1

UC 056  
Freshman Exploratory  
MTH 121  
Foreign Language  
or LIN 176

#### Semester 3

ECN 216  
Distribution Requirement

#### Semester 2

Distribution Requirement  
Freshman Exploratory  
MTH 122  
Foreign Language  
or LIN 177

#### Semester 4

ECN 217  
Distribution Requirement

## ECONOMICS AND MANAGEMENT

Distribution Requirement  
Elective

### Semester 5

ECN 310 (plus ECN 311)

Economics Elective

Distribution Requirement  
Elective

### Semester 7

Economics Elective

Elective

Elective

Elective

Distribution Requirement  
Elective

### Semester 6

Economics Elective

Distribution Requirement  
Elective

Elective

### Semester 8

ECN 480

Elective

Senior Colloquium

## COURSE OFFERINGS IN MANAGEMENT

### **MGT 100      Management: What Is It?      (4 credits)**

An introduction to the character of management activities and the environment in which these take place; the individual and the firm viewed as utility maximizing systems; some elementary principles relating individuals and firms to the economic system. In dealing with these issues, the course introduces the student to some pervasive and transferable generalized skills applicable to perception and solving of problems.

### **MGT 105      Introduction to Computer Programming      (2 credits)**

### **MGT 108      Introduction to Computer Processing Languages      (2 credits)**

### **MGT 200      Management Information and Control Systems I      (4 credits)**

Introduction to management information systems as aids to decision-making. The identification, quantification, and communication of managerial information. To include: accounting and other internal management languages; budgeting; introduction to the use of computer-based information systems. Must be accompanied by MGT 201. Ordinarily offered in the Fall Semester.

### **MGT 201      Computer Laboratory for MGT 200      (1 credit)**

Introduction to computers in information processing systems; introduction to computer languages and flow charts. Ordinarily offered in the Fall Semester.

### **MGT 210      Management Information and Control Systems II      (4 credits)**

Continuation of MGT 200: management controls; statistical analysis; inference and hypothesis testing; decision theory; regression and correlation; statistical controls. Must be accompanied by MGT 211. Ordinarily offered in the Winter Semester.

### **MGT 211      Computer Laboratory for MGT 210      (1 credit)**

Use of computers in problem-solving and statistics. Ordinarily offered in the Winter Semester.

### **MGT 300      Management Systems Analysis      (4 credits)**

This course emphasizes the identification of goals and the use of resources for achieving goals through the application of analytic and quantitative tools developed

## ECONOMICS AND MANAGEMENT

in earlier courses to problems drawn from a variety of experiences, e.g., financial management, marketing, production, capital budgeting, etc. The course is designed to develop skills in the use of tools, to facilitate the transferability of these skills, and to enhance the ability to develop new skills as required by a given situation.

### **MGT 303 Economic Growth, Fluctuations, and Forecasting (4 credits)**

Analysis of the forces underlying economic growth in advanced nations. Study of business cycle conditions and various factors affecting business fluctuations. Introduction to economic forecasting techniques for the individual firm and for the national economy. Identical with ECN 303.

### **MGT 322 Capital Markets (4 credits)**

Analysis of the operation of major financial institutions and markets. Sources and uses of funds for corporations and other organizations. Identical with ECN 322. Prerequisite: ECN 216.

### **MGT 324 Business in the American Economy (4 credits)**

Public attitudes toward, and government regulation of, business; social and legal responsibilities of business. Identical with ECN 324. Prerequisite: ECN 216.

### **MGT 325 Industrial Organization (4 credits)**

Resource patterns, production processes (including technology and economies of scale), and managerial organization as related to the size of firms and the location of industries. Offered in the Fall Semester. Identical with ECN 325. Prerequisite: ECN 216.

### **MGT 333 Labor-Management Relations (4 credits)**

Analysis of management-employee relations in modern industry; public policy in labor-management areas. Identical with ECN 333. Prerequisites: UC 056 and ECN 216.

### **MGT 335 The Economics of Collective Decision-making (4 credits)**

An investigation of the causes and implications of the limitations of voluntary decentralized exchange systems. Alternative techniques of economic-political organization will be evaluated. Such problem areas as pollution, conservation, and transportation will be examined, using techniques of applied welfare economics, including cost-benefit analysis. Identical with ECN 335. Prerequisite: UC 056 or permission of the instructor.

### **MGT 342 Simulation in Management (4 credits)**

Introduction to the use of simulation techniques in the analysis of organizations and their operations.

### **MGT 402 Marketing and Consumer Behavior (4 credits)**

Analysis of consumer behavior and its significance for market analysis. The relationship between market structure and marketing behavior. Prerequisite: Major standing in economics or management.

### **MGT 435 Management Strategies and Policies (4 credits)**

Financial, economic, and other management tools used to analyze organizational case studies. Ordinarily offered in the Winter Semester. Prerequisites: ECN 216 and ECN 217.

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### **MGT 442 Operations Research (4 credits)**

Operations research techniques are used in exploring problems selected from several areas of organizational and business analysis. Ordinarily offered in the Fall Semester. Prerequisites: ECN 216 and ECN 217, or permission of the instructor.

## COURSE OFFERINGS IN ECONOMICS

### **ECN 216 Microeconomic Analysis (4 credits)**

Analysis of pricing, resource allocation, and income distribution at the level of the individual firm, industry, and household consuming unit. Offered in the Fall and Winter Semesters.

Prerequisite: UC 056.

Prerequisite or corequisite: MTH 122.

### **ECN 217 Macroeconomic Analysis (4 credits)**

Study of factors determining the level of national income and employment, price levels, and inflation. Offered in the Fall and Winter Semesters.

Prerequisite: UC 056.

Prerequisite or corequisite: MTH 121.

### **ECN 223 The Indian Economy (4 credits)**

The economic problems of developing nations in the context of the Indian economy. Prerequisite: Permission of the instructor.

### **ECN 225 American Economic History (4 credits)**

Study of the principal events in the growth and development of the American economy from colonial times to the present. Includes discussion of the evolution of current historical thought under the impact of economic analysis.

Prerequisite: Completion of one (1) Freshman Exploratory or permission of the instructor.

### **ECN 303 Economic Growth, Fluctuations, and Forecasting (4 credits)**

Analysis of the forces underlying economic growth in advanced nations. Study of business cycle conditions and various factors affecting business fluctuations. Introduction to economic forecasting techniques for the individual firm and for the national economy. Identical with MGT 303.

### **ECN 308 Urban-Regional Economics (4 credits)**

Application of the tools of economic analysis to the problems of urban regions. These problems include (1) differences in the level, distribution, growth, and stability of income within and between urban regions and (2) employment, housing, transportation, the urban public economy, and the location of industry.

Prerequisite: UC 056 or permission of the instructor.

### **ECN 310 Statistical Techniques for the Social Sciences (4 credits)**

Use of statistical techniques to solve problems faced by firms and industries. Includes laboratory exercises using computers. Offered in the Fall Semester.

Prerequisite: MTH 125 or permission of the instructor.

Corequisite: ECN 311.

### **ECN 311 Laboratory for ECN 310 (1 credit)**

Use of computers in problem-solving and statistics.

## ECONOMICS AND MANAGEMENT

### **ECN 318 Social Organization and Economic Change (4 credits)**

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.

### **ECN 321 Monetary Theory and Policy (4 credits)**

Analysis of modern monetary and banking theories. The course investigates both domestic and international monetary analysis and policies, and the relationship between monetary and fiscal policies as they affect the economy.

Prerequisite: ECN 217.

### **ECN 322 Capital Markets (4 credits)**

Analysis of the operation of major financial institutions and markets. Sources and uses of funds for corporations and other organizations. Identical with MGT 322.

Prerequisite: ECN 216.

### **ECN 323 International Trade and Finance (4 credits)**

The theory of international specialization and exchange, commercial policy, national income and balance of payments, monetary relations, foreign investment, and current issues of international economic policy.

Prerequisite: ECN 216.

### **ECN 324 Business in the American Economy (4 credits)**

Public attitudes toward, and government regulation of, business; social and legal responsibilities of business. Identical with MGT 324.

Prerequisite: ECN 216.

### **ECN 325 Industrial Organization (4 credits)**

Resource patterns, production processes (including technology and economies of scale), and managerial organization as related to the size of firms and the location of industries. Identical with MGT 325.

Prerequisite: ECN 216.

### **ECN 326 Economic Development (4 credits)**

Application of the tools of economic analysis to the problems of economic development and growth.

Prerequisite: UC 056 or permission of the instructor.

### **ECN 333 Labor-Management Relations (4 credits)**

Analysis of management-employee relations in modern industry; public policy in labor-management areas. Identical with MGT 333.

Prerequisites: UC 056 and ECN 216.

### **ECN 335 The Economics of Collective Decision-making (4 credits)**

An investigation of the causes and implications of the limitations of voluntary decentralized exchange systems. Alternative techniques of economic-political organization will be evaluated. Such problem areas as pollution, conservation, and transportation will be examined, using techniques of applied welfare economics, including cost-benefit analysis. Identical with MGT 335.

Prerequisite: UC 056 or permission of the instructor.

### **ECN 342 Simulation in Economics (4 credits)**

An introduction to the use of simulation techniques in economic analysis.

Prerequisites: Major standing and permission of the instructor.

## ECONOMICS AND MANAGEMENT

**ECN 350 Economic Structures and Systems (4 credits)**

A comparative analysis of the principles, structures, and ideologies of capitalism, socialism, and the command economy, with special emphasis on the processes of economic decision-making.

Prerequisite: ECN 216 or permission of the instructor.

**ECN 405 Econometrics (4 credits)**

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

Prerequisites: ECN 216, ECN 217, either MGT 210 or ECN 310, and permission of the Department.

**ECN 417 Advanced Economic Theory (4 credits)**

This course covers selected topics in the economic theory of resource allocation, economic growth, and stability.

Prerequisites: ECN 216 and ECN 217, or permission of the instructor.

**ECN 418 Selected Topics in Economic Policy (4 credits)**

Prerequisite: Major standing.

**ECN 480 Seminar (4 credits)**

Theses, individual topics, and readings. Offered in the Winter Semester.

Prerequisite: Permission of the Department.

**ECN 490 Independent Research (4 credits)**

Prerequisite: Permission of the instructor.



# SCHOOL OF EDUCATION

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RODERIC E. RIGHTER

Dean  
Associate Dean

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Ph.D., Harvard University

Chancellor  
Provost  
Professor of Psychology

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Ed.D., Columbia University

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Ph.D., Michigan State University

Assistant Professor of Education

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Assistant Professor of Education

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Assistant Professor of Education

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Professor of Education



## COLLEGE OF ARTS AND SCIENCES

- DAVID C. BEARDSLEE Professor of Psychology  
Director, Office of Institutional Research  
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Ph.D., University of Michigan
- PHEBE CHAO Special Instructor in English  
B.A., University of Michigan; M.A., University of Michigan
- MELVIN CHERNO Professor of History  
B.A., Stanford University; M.A., University of Chicago;  
Ph.D., Stanford University
- ROBERT L. DONALD Instructor in English  
B.A., Xavier University; M.A., University of Detroit
- PETER G. EVARTS Associate Professor of English  
B.A., Eastern Michigan University; M.A., University of Michigan;  
Ph.D., Wayne State University
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Ph.D., Lehigh University
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Ph.D., Harvard University
- EDWARD J. HEUBEL Professor of Political Science  
B.A., Yale University; M.A., University of Minnesota;  
Ph.D., University of Minnesota
- DONALD C. HILDUM Professor of Psychology  
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- DON R. IODICE Associate Professor of French  
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## EDUCATION

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## UNIVERSITY READING CENTER

HARRY T. HAHN Director

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B.S., Western Michigan University; M.Ed., Wayne State University

WALLACE S. MESSER Specialist in Reading  
B.S., Wayne State University;  
M.A., San Fernando Valley State College

The School of Education is a genuinely interdisciplinary body. As the faculty roster indicates, staff members from a great variety of departments of the University contribute their talents to the education of teachers. Undergraduates all work for the degree of Bachelor of Arts and are majors in a departmental or inter-departmental program of the College of Arts and Sciences. Graduate students in secondary teaching fields are sponsored jointly by the School of Education and the College of Arts and Sciences for their degrees; those in elementary specializations are sponsored by the School of Education alone. In both programs the University awards the degree of Master of Arts in Teaching (M.A.T.).

### THE UNDERGRADUATE PROGRAMS

Prospective elementary and secondary teachers may pursue a variety of programs and be sponsored for teaching certificates in the State of Michigan. Certification in this state usually suffices for, or facilitates the obtaining of, teaching certificates in other states. Concerning certification in Michigan and in other states, see pp. 217-18 of this catalog.

The aim of all teacher education programs at Oakland is to develop graduates who are both broadly educated and competently prepared for their specialized duties. Prospective teachers take the liberal arts and science courses required of all students, and on this framework they build one of a variety of majors. For general requirements for the degree of Bachelor of Arts and for further information on the general education component in the undergraduate instructional program of the College of Arts and Sciences, see pp. 35-44. The Department of Teacher Education offers professional education courses, but the student's major and minor subjects are taught by the departments of the College of Arts and Sciences.

This interdisciplinary approach seeks to make all students familiar with their cultural heritage. Another feature of the teacher education program that is somewhat distinctive is that the Department provides all prospective teachers with two direct experiences with teaching in the public schools. In the sophomore year, as part of an educational psychology course, they either observe in nearby schools during two weekly periods or on campus observe video tapes of teaching. One purpose of these observations is to help them test their career choices early and realistically before they proceed very far in their professional program. In the senior year, a ten-week teaching internship completes their program with

## EDUCATION

a full-time assignment in public school classrooms. This internship provides a transition to professional duties, a transition facilitated by assistance from University and school faculties. Both the sophomore observations and the senior internship are accompanied by weekly seminars which attempt to integrate the theory and practice of teaching. Internship applications for the Fall Term must be filed prior to February 1, and applications for the Winter Term must be filed by September 15.

All undergraduate teaching majors must take ED 244, 245, 455, and either ED 428 (secondary) or ED 433 (elementary).

## SECONDARY TEACHING MAJORS

Prospective secondary school teachers have a choice of any one of thirteen teaching majors. Consult the section of the catalog appropriate to the fields of concentration for specific courses and requirements for admission to major standing and for completion of the major program.

Biology	(See p. 67.)	Mathematics	(See p. 112.)
Chemistry	(See p. 77.)	Music	(See p. 140.)
English	(See p. 92.)	Physics	(See p. 152.)
French	(See p. 124.)	Russian	(See p. 124.)
German	(See p. 124.)	Spanish	(See p. 124.)
History	(See p. 101.)	Social Studies	(See p. 187.)
Latin	(See p. 84.)		

## SECONDARY TEACHING MINORS

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

Art	(See p. 60.)	Modern Languages	(Refer to specific language)
Biology	(See p. 67.)		
Chemistry	(See p. 77.)		
English	(See p. 93.)	Physics	(See p. 152.)
History	(See p. 102.)	Science	(See p. 191.)
Mathematics	(See p. 113.)	Social Studies	(See p. 188.)

## ELEMENTARY TEACHING MAJORS

Prospective elementary school teachers must take a common core program and choose one area for major concentration and another for minor concentration. Students may concentrate in two major fields (instead of one major and one minor), but they may

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not select a single area for both major and minor concentrations. The core program and the concentrations complete all University requirements for graduation except that together they do not normally yield sufficient credits for the degree of Bachelor of Arts. To reach the minimum graduation requirement of 124 credits, students, in consultation with their advisers, must complete their programs with electives.

### The Core Program for Prospective Elementary Teachers

For course descriptions of Freshman Exploratories, Distribution Requirements, and Senior Colloquia and for the language requirement, see pp. 40-44 and 53-54.

Freshman Exploratories	8 credits
Foreign Language or LIN (ENG) 176, 177*	8 credits
Psychology (UC 054 or PSY 146 or PSY 171)	4 credits
ART 147 or UC 047 (with laboratory)	4 credits
MUS 149	4 credits
MTH 314	4 credits
MTH 315 and MTH 316*	8 credits
SCI 305	4 credits
Area Studies	4 credits
Literature (See Distribution Requirements p. 38)	4 credits
Social Sciences (other than psychology)	4 credits
Senior Colloquium	4 credits
ED 244, 245	8 credits
ED 331	4 credits
ED 433 and ED 455	12 credits

\*Students in the foreign language major concentration must elect the foreign language 114-115 sequence for 10 credits and are not required to take MTH 315 and MTH 316.

In the guide below the core courses in elementary education are listed according to the terms in which they are usually offered. The student should be aware, however, that this guide is not a guarantee that the courses will always be offered during the indicated terms; it simply presents the pattern that has been customary up until now.

LIN (ENG) 176 Fall	LIN (ENG) 177 Winter	SENIOR COLLOQUIUM Fall
MTH 314 Fall Summer	MTH 315 Fall Winter	Winter Spring (small selection)

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LANGUAGES Check with Dept. of Mod. Langs.	MTH 316 Winter Spring	ED 244 Fall Winter Spring
PSY 146 Fall Winter Spring	SCI 305 Fall Spring	ED 245 Fall Winter Spring
PSY 171 Fall Winter Summer	AREA STUDY Every semester	ED 331 Fall Winter Spring
UC 054 Fall Winter Spring	UC 018 Fall Winter Spring	ED 433 and 455 Fall Winter
ART 147 Check with Dept. of Art	ENG 105 Winter (may vary)	HST 214 Fall Winter Spring
UC 047 (with lab) Fall Winter	ENG 111 Winter (may vary)	HST 215 Fall Winter Summer
MUS 149 Fall Spring	ENG 140 Fall Winter	
	SOCIAL SCIENCE Various offerings every semester	

## Major Concentration

### HISTORY/SOCIAL SCIENCE

Psychology (UC 054 or PSY 146 or PSY 171)	} From the core program	4 credits
Area Studies		4 credits
Social Sciences		4 credits
HST 214, 215		8 credits
Additional courses in history, social science, geography, area studies		16 credits
<b>Total</b>		<b>36 credits</b>

This total of 36 credits can include the Freshman Exploratories and Senior Colloquium applicable to this concentration. Admission to major standing requires that the student have completed 56

## EDUCATION

credits. He or she must also be in academic good standing and have attained a combined average of 2.0 in a group of courses consisting of two Freshman Exploratories, psychology, ED 244 and ED 245, and three additional courses in the core and/or concentration. Approval for major standing must be obtained from the School of Education. Admission to major standing must be approved before the student completes more than 72 credits.

### MODERN LANGUAGE

Foreign Language	From the core program	10 credits
Additional courses in same language offered in fulfillment of core requirement		26 credits
Total		36 credits

Admission to major standing requires that the student have completed 56 credits. He or she must also be in academic good standing and have attained a combined average of 2.0 in a group of courses consisting of two Freshman Exploratories, psychology, ED 244 and ED 245, and three additional courses in the core and/or concentration. Approval for major standing must be obtained from the School of Education and from the Department of Modern Languages and Literatures. Admission to major standing must be approved before the student completes more than 72 credits.

NOTE: Students who plan to combine a foreign language major concentration with a language arts minor should include LIN (ENG) 176, 177, as a part of the minor sequence.

### LANGUAGE ARTS

Foreign Language or LIN (ENG) 176, 177	} From the core program	8 credits
Literature		4 credits
Additional courses in English*, speech, foreign language		24 credits
Total		36 credits

\*Students who elect a foreign language to satisfy the language requirement must include ENG 176 or 177 (4 credits) as part of the language arts major concentration.

This total of 36 credits can include the Freshman Exploratories and Senior Colloquium applicable to this concentration. Admission to major standing requires that the student have completed 56 credits. He or she must also be in academic good standing and

## EDUCATION

have attained a combined average of 2.0 in a group of courses consisting of two Freshman Exploratories, psychology, ED 244 and ED 245, and three additional courses in the core and/or concentration. Approval for major standing must be obtained from the School of Education. Admission to major standing must be approved before the student completes more than 72 credits.

## SCIENCE/MATHEMATICS

MTH 314, 315, 316	}	From the core program	12 credits
SCI 305			4 credits
Additional courses in science and mathematics approved by the Committee on Science and Mathematics			20 credits
Total			36 credits

This total of 36 credits can include the Freshman Exploratories and Senior Colloquium applicable to this concentration. Admission to major standing requires that the student have completed 56 credits. He or she must also be in academic good standing and have attained a combined average of 2.0 in a group of courses consisting of two Freshman Exploratories, psychology, ED 244 and ED 245, and three additional courses in the core and/or concentration. Approval for major standing must be obtained from the School of Education and from the Committee on Science and Mathematics. Admission to major standing must be approved before the student completes more than 72 credits.

## Minor Concentrations

### HISTORY/SOCIAL SCIENCE

Psychology (UC 054 or PSY 146 or PSY 171)	}	From the core program	4 credits
Area Studies			4 credits
Social Sciences			4 credits
HST 214, 215			8 credits
Additional courses in history, social science, geography, area studies			4 credits
Total			24 credits

This total of 24 credits can include the Freshman Exploratories and Senior Colloquium applicable to this concentration.

## EDUCATION

### LANGUAGE ARTS

Foreign Language or LIN (ENG) 176, 177 Literature	} From the core program	8 credits
		4 credits
Additional courses in English*, speech, and foreign language		12 credits
Total		24 credits

\*Students who elect a foreign language to satisfy the language requirement must include ENG 176 or 177 (4 credits) as part of the language arts minor concentration.

This total of 24 credits can include the Freshman Exploratories and Senior Colloquium applicable to this concentration.

### SCIENCE/MATHEMATICS

MTH 314, 315, 316	} From the core program	12 credits
SCI 305		4 credits
Additional courses in science and/or mathematics		8 credits
Total		24 credits

This total of 24 credits can include the Freshman Exploratories and Senior Colloquium applicable to this concentration.

### SPONSORSHIP FOR MICHIGAN TEACHER CERTIFICATION

The State Department of Education certifies teachers in Michigan. It issues provisional certification to candidates deemed qualified by colleges and universities. This Provisional Certificate can be converted to a Permanent Certificate after a period of teaching and additional studies. Oakland University sponsors its graduates for the Provisional Elementary and the Provisional Secondary Certificates if the following requirements are met:

1. Completion of the University baccalaureate with a teaching major and one appropriate minor.
2. An internship (ED 455) grade of 2.5 or better.
3. Demonstrated proficiency in the use of English. The criteria of acceptability may be ascertained by consulting the School of Education Office. Students should satisfy this requirement before the senior year to allow time to remove deficiencies.

## EDUCATION

**NOTE:** Students who expect to teach in a state other than Michigan should ascertain what requirements beyond those of Michigan that state demands. It is the responsibility of the student to plan his or her program accordingly.

## THE GRADUATE PROGRAMS

The School of Education and the College of Arts and Sciences jointly offer programs leading to the degrees of Master of Arts in Teaching in English and Master of Arts in Teaching in mathematics; they are in the process of approving a program leading to the degree of Master of Arts in Teaching in history, in the secondary school. The School of Education offers programs leading to the degree of Master of Arts in Teaching in the areas of elementary education and of reading. The School also is in the process of approving a program for a Master of Arts in Teaching in special education. Additional programs in counseling and in administration may be inaugurated in the future. For details on graduate programs consult the Graduate Bulletin.

## CERTIFICATION PROGRAMS FOR GRADUATES

For graduates of accredited institutions who wish to be certified as teachers, Oakland University makes available programs in all majors offered by the University. Those seeking sponsorship for certification must be admitted through the Office of Graduate Study and must then apply to the School of Education for preparation of a certification program. This program will be prepared in consultation with the departments concerned and must be approved by them as well as by the School of Education. Application for admission should be made early enough in the semester prior to the one in which the student intends to enroll so that the various departments as well as the School of Education have ample opportunity to evaluate transcripts and advise students of courses which they will be required to take. Successful completion of such a program leads to sponsorship by Oakland University for the appropriate Michigan Provisional Certificate.

## COURSE OFFERINGS

### **ED 244 Social and Philosophical Issues in Education (4 credits)**

Education is treated both as a social phenomenon and as an embodiment of philosophic commitments. Basic concepts studied in the social sciences and philosophy are examined with special attention to their pertinence to education. Such questions as the nature of reality, knowledge, and values are examined from widely differing points of view in order to analyze controversial issues in theory and practice.

Prerequisites: Two Freshman Exploratories.

**ED 245 Psychological and Field Studies in Education (4 credits)**

Psychological factors involved in learning and development are examined in lectures, class discussions, and observations of teaching. These observations may be of actual teaching in the schools, or they may be observations of video tapes of teaching. Identical with PSY 245.

Prerequisites: Two Freshman Exploratories and one course in psychology.

**ED 321 The Teacher and the Atypical Child (4 credits)**

The identification and management of atypical children in a regular elementary classroom setting. The course will deal particularly with those children requiring special management techniques and some modification of curriculum. These children may be hyper-active or withdrawn; they may have emotional, perceptual, or learning problems; or they may be gifted. Sections on parental assistance in handling atypical children and on school and community services available for diagnosis and referral will be included.

Prerequisites: ED 244 and ED 245.

**ED 331 Teaching and Reading (4 credits)**

Intensive preparation for the teaching of reading skills in the elementary grades. Identification of reading readiness, problems of program construction, and a variety of teaching methods are among the topics of the course.

Prerequisites: ED 244 and ED 245.

**ED 332 Literature for Children (4 credits)**

The course treats literature for children as part of the mainstream of literature. Students will learn to apply basic concepts of criticism to the study of literary works for children in order to develop the ability to select and use quality books appropriate to the needs and developmental levels of children.

Prerequisites: ED 244, ED 245, and completion of the general education Distribution Requirements in literature.

**ED 428 Teaching of the Major Field (4 credits)**

Content and methodology appropriate to the student's major field. Organization of programs and courses, bibliography of the field, and techniques of instruction receive special emphasis.

Prerequisites: ED 244, ED 245, and major standing. Must be taken concurrently with ED 455 except when other provisions have been made by the major department.

**ED 430 The Public School in Urban America (4 credits)**

The course deals with the role of schools in contemporary urban America, with special emphasis on the relationship between the school and the urban ethos, social stratification, racial identities, and the functioning of the school in the urban ecology.

In addition, discussions will include considerations of curriculum, organization, financing, and the legal status of education.

Prerequisites: ED 244, ED 245, and major standing.

**ED 433 Teaching in the Elementary School (4 credits)**

Content and methodology of instruction in the elementary school. Includes extensive field observation in schools. This course is designed to supplement specialized courses in the teaching fields.

Prerequisites: ED 244, ED 245, and major standing. Must be taken concurrently with ED 455.

**ED 455 Internship (8 credits)**

Supervised teaching in the public schools. Students spend approximately fifty days

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in public school classrooms and participate in such further activities as a supervising teacher may direct. The course includes a seminar dealing with problems of instruction. Prerequisites: ED 244, ED 245, major standing, concurrent registration in ED 428 (when appropriate) or ED 433, and permission of both the student's major department and the School of Education. Internship applications for the Fall Term must be filed prior to February 1, and applications for the Winter Term must be filed by September 15. A student must take his or her internship in his or her last or next to last semester (a last semester is one in which a student needs to complete no more than 16 credits to satisfy all graduation requirements). Elementary education majors must complete ED 331, SCI 305, and MTH 314 before interning.

### **ED 490 Independent Study and Research (2 or 4 credits)**

A program of directed individual reading and research.

Prerequisite: Permission of the Department of Teacher Education. Such permission will be granted only if a student presents written evidence that a faculty member has consented to supervise his or her study.

### **ED 497 Apprentice College Teaching (2 or 4 credits)**

An elective course open to any well-qualified upperclassman who wins consent of a faculty member to assist in presenting a regular college course to underclassmen. The apprentice should be capable of assuming limited classroom teaching duties. Prerequisite: Permission of the Department of Teacher Education. Such permission will be granted only if a student presents written evidence that a faculty member has accepted him or her as an apprentice.

## GRADUATE COURSE OFFERINGS

### **ED 509 The School and the Disadvantaged Child (2 or 4 credits)**

A study of the difficulties and opportunities arising in the schooling of children from disadvantaged home environments. The course will concern itself with such topics as: clashes between values in school and home environments, communication across subcultural barriers, problems of motivation, etc.

Prerequisite: Permission of the instructor.

### **ED 511 Interaction Analysis (4 credits)**

The course seeks to improve effectiveness of instruction through a study of pupil-teacher interaction. Techniques of observation, methods of gathering data and analyzing behavior in both the affective and the cognitive fields are emphasized. Techniques will include video tapings of teachers and pupils, projects including observational schedules, and preparation and analysis of specific teaching situations.

Prerequisites: Admission to course in a graduate program or permission of the instructor.

### **ED 521 Education of Exceptional Children (4 credits)**

The course is devoted to the special provisions, remedial procedures, care, treatment, education, and rehabilitation of several types of exceptional children. These include emotionally disturbed, mentally retarded, gifted, blind, deaf, physically handicapped, and other health-impaired children. Site visits to clinical and hospital as well as educational settings are included.

Prerequisite: Admission to a graduate program, or one year's teaching experience, or permission of the instructor.

**ED 530     Advanced Topics in Literature for Children     (4 credits)**

The course centers on the critical analysis of child literature published in recent years. When the works of major authors and illustrators are studied in depth, the literature for children will be considered as part of the literary mainstream, but the course will emphasize specific approaches developed to help children read, understand, and enjoy literature.

Prerequisite: Admission to course in a graduate program or permission of the instructor.

**ED 531     Current Trends in the Teaching of Reading     (4 credits)**

An intensive examination of current instructional practices, problems, and research in the teaching of reading. Prevailing trends in reading instruction will be evaluated in the light of cumulative research findings concerning the development of reading skills.

Prerequisite: Admission to course in any graduate program or permission of the Department.

**ED 532     Teaching Reading in the Primary Grades     (4 credits)**

This course is designed to examine principles, practices, and research related to early reading instruction. It will include an analysis of the relationship of the various language arts to reading skills and will place emphasis upon the developmental skills of pupils, starting with kindergarten.

Prerequisite: Admission to course in any graduate program or permission of the Department.

**ED 533     Teaching Reading in the Upper Grades     (4 credits)**

This course is designed to examine the principles, practices, and research related to the teaching of reading in Grade Four and higher grades. Emphasis will be placed upon the developmental reading skills in a reading program adjusted to the individual needs of pupils. Particular emphasis will be placed upon reading in the content areas.

Prerequisite: Admission to course in any graduate program or permission of the Department.

**ED 534     Language Arts Instruction in the Elementary Schools     (4 credits)**

This course is designed to provide a scholarly examination of research findings, materials, and procedures for the development of spelling, composition, speaking, and listening skills in children. Discussions will center on those areas of the curriculum which directly influence language development. The course will demonstrate how the coordinated-language-arts approach and the use of literature appropriate to each age level can balance the growth of communication skills.

Prerequisite: ED 331 or ED 531 or equivalent preparation in reading instruction.

**ED 535     The Perceptually Handicapped in Reading     (4 credits)**

A study of theories of perception and their impact on the reading process. Identification of reading difficulties and implementation of corrective measures in the classroom will receive special emphasis.

Prerequisite: Permission of the instructor.

**ED 536     Teaching Reading to the Special Child     (4 credits)**

A general discussion of the reading process as it relates to slow learners, emotionally disturbed, handicapped, but also gifted children. A study of remedial instructional materials is included.

Prerequisite: ED 521 or permission of the instructor.

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### **ED 590 Special Problems in Education (2, 4, 6, or 8 credits)**

A course dealing with specialized problems in various phases of education. Depending on the clientele and staff needs, the specific topics may differ from term to term. The course may be taken more than once, but for no more than a total of 8 credits. May be elected for independent study.

Prerequisite: Admission to course in any graduate program or permission of the Department.

### **ED 591 Ecology of the Classroom (4 credits)**

The course deals with the ecological context for learning in classroom, school, and community. The primary task will be to describe, to analyze, and to make inferences about the structure of the ecological environment. These findings will then be related to pupil learning.

Prerequisite: Permission of the instructor or acceptance into any graduate program.

### **ED 592 Research Techniques in Education (4 credits)**

A study of research techniques in the behavioral sciences and education, methods of gathering evidence, elementary statistical concepts in education, research design, etc. Students preparing to start their terminal project will find the course especially helpful.

Prerequisite: Acceptance to candidacy in a master's program in education or permission of the instructor.

### **ED 601 History of Education (4 credits)**

A study of the cultural forces (primarily in the West) as they shaped, and were shaped by, the education of the young. Characteristic patterns of educational institutions, changing conceptions of curricula, dominant social and philosophic ideas concerning education, and significant contributions by individual educators represent some of the professional topics which are discussed in their historical settings.

Prerequisite: Admission to course in any graduate program.

### **ED 602 Philosophy of Education (4 credits)**

A study of philosophical inquiry in relation to education. Philosophic analysis of educational problems, educational conclusions by systematic philosophers, logical relationships between various philosophical and educational positions are among the topics considered.

Prerequisite: Admission to course in any graduate program.

### **ED 603 Comparative Education (4 credits)**

An analysis of education and its relationship to social and economic change in various cultures. Lectures, readings, and discussions will deal primarily with existing educational systems originating in Western culture, such as those of Great Britain, U.S.S.R., Sierra Leone, Kenya, but the course will also include some study of selected utopian educational systems.

Prerequisite: Admission to course in any graduate program.

### **ED 604 Sociology of Education (4 credits)**

A study of social and cultural forces and their impact on the organization and practices of schools. An investigation of social dynamics within the schools and the impact of schools on other institutions of society.

Prerequisite: Admission to course in any graduate program.

### **ED 611 Problems in Elementary Education (4 or 8 credits)**

A study of issues in the organization, curriculum, administration, and methodology of elementary schools. Student needs and preparation determine the specific topics

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included in a given semester. Students may register for this course once or twice, up to a total of 8 credits.

Prerequisite: Admission to course in a graduate program in elementary education or in reading instruction.

### **ED 612 Curriculum Studies (4 credits)**

A study of practices in and research on curriculum in modern elementary schools. The course will investigate the sum total of experiences provided for young people in school settings and will challenge established practices on the basis of recent curricular developments.

Prerequisite: Admission to course in a graduate program in elementary education or in reading instruction.

### **ED 621 Management and Curriculum for Emotionally Disturbed Children (4 credits)**

A study of the diagnosis and treatment, curriculum development, methods and material, and classroom procedures in programs for emotionally disturbed children in educational and clinical settings. The use of video tapes, role play, demonstrations, as well as direct observation of emotionally disturbed children will be included.

Prerequisites: ED 521 and one graduate course in psychology.

### **ED 622 Practicum in the Education of the Emotionally Disturbed (6 credits)**

This is a specialized laboratory experience, including educationally related work in an interdisciplinary treatment setting with emotionally disturbed children. Observation, tutoring, diagnostic and prescriptive teaching on a one-to-one basis and in group instruction are part of the course. ED 623 must be taken concurrently.

Prerequisites: Completion of all other requirements for the degree of Master of Arts in Teaching in special education, or permission of the instructor.

### **ED 623 Seminar in the Education of the Emotionally Disturbed (2 credits)**

A study and interpretation of psychological information, development of understanding of psychiatric intervention, the use of case study, and educational relevancy of case materials in dealing with the emotionally disturbed. Must be taken simultaneously with ED 622.

### **ED 624 Directed Teaching in Special Education (6 credits)**

This is a supervised full-time teaching experience in classrooms corresponding to the student's concentration in special education. Those qualifying for exemption from the supervised teaching requirement in the certification code may not take this course.

Prerequisites: Acceptance to degree candidacy in a Master's program in special education and approval by the director of the special education program.

### **ED 631 Problems in Reading Instruction (4 or 8 credits)**

A study of diagnostic, methodological, organizational, and administrative issues in reading programs. Student needs and preparation determine the specific topics included in a given semester. Students may register for this course once or twice up to a total of 8 credits.

Prerequisites: Admission to course in a Master of Arts in Teaching program and at least one previous course in reading instruction.

### **ED 632 Diagnosis of Reading Disabilities (4 credits)**

A laboratory course concerned with analysis and study of factors which contribute to

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or precipitate reading disabilities in elementary and/or secondary school pupils. The course includes selection and administration of both informal and standardized tests and also deals with the preparation and evaluation of case reports.

Prerequisites: Admission to course in a Master of Arts in Teaching program and at least one previous course in reading instruction.

### **ED 633 Correction of Reading Disabilities (4 credits)**

A laboratory course designed to focus attention on methods, materials, and practices pertaining to the instruction of disabled readers. The course provides opportunities to plan, organize, and conduct remedial instruction for children under the supervision of the instructor.

Prerequisites: Admission to course in a Master of Arts in Teaching program and at least one previous course in reading instruction.

### **ED 699 Terminal Project (4 credits)**

The planning and execution of a significant research or action project in accordance with the advice of the student's guidance committee.

Prerequisites: Admission to degree candidacy in a graduate program in elementary education or reading instruction and written approval of the student's guidance committee. Students should request such approval from their advisers early in the Fall Semester for registration in the Winter Semester, and early in the Winter Semester for registration in the Spring and Summer Sessions or Fall Semester. During the preparation of the terminal project students must remain in constant touch with their advisers and must present the completed project no less than two weeks before the end of classes in the term of graduation.

## RELATED COURSES

SCI 305 (Science in the Elementary School), SCI 505 (Basic Concepts and New Developments in Science), and SS 570 (Social Studies in the Elementary School) are three courses appropriate for many students preparing to teach. For course descriptions see p. 191 and p. 188 of this catalog.





# SCHOOL OF ENGINEERING

## OFFICERS OF ADMINISTRATION

JOHN E. GIBSON Dean  
KEITH R. KLECKNER Assistant Dean for Graduate Programs  
HOWARD R. WITT Assistant Dean for Undergraduate Programs

## OFFICERS OF INSTRUCTION

DONALD D. O'DOWD Chancellor  
A.B., Dartmouth College; M.A., Harvard University; Provost  
Ph.D., Harvard University

PETER C. BERTELSON Visiting Professor of Engineering  
B.S.M.E., Carnegie Institute of Technology;  
M.S., University of Michigan; D.Sc., Washington University

DAVID E. BODDY Assistant Professor of Engineering  
B.S.M.E., Purdue University; M.S.E.E., Purdue University;  
Ph.D., Purdue University

BENJAMIN F. CHEYDLEUR Director, Computing Center  
B.A., University of Wisconsin Professor of Engineering

ROBERT H. EDGERTON Associate Professor of Engineering  
B.S., University of Connecticut; M.S., University of Connecticut;  
Ph.D., Cornell University

DAVID H. EVANS Visiting Professor of Engineering  
B.S., Lehigh University; Ph.D., Brown University

JOHN E. GIBSON Dean  
B.S., Rhode Island State College; Professor of Engineering  
M.Eng., Yale University; Ph.D., Yale University

WILLIAM G. HAMMERLE Professor of Engineering  
B.S., California Institute of Technology; Ph.D., Princeton University

RICHARD E. HASKELL Associate Professor of Engineering  
B.E.E., Rensselaer Polytechnic Institute;  
M.E.E., Rensselaer Polytechnic Institute;  
Ph.D., Rensselaer Polytechnic Institute

ROBERT G. HEEREN Assistant Professor of Engineering  
B.S.E.E., Purdue University; M.S., University of Illinois;  
Ph.D., University of Illinois

## ENGINEERING

- J. CARROLL HILL Professor of Engineering  
B.E.E., University of Louisville;  
M.S.E.E., University of Southern California; Ph.D., Purdue University
- ALBERT F. HOUCHESS Instructor in Engineering  
B.S.M.E., Purdue University; M.S.M.E., University of Illinois
- JOSEPH D. HOVANESIAN Professor of Engineering  
B.S., Michigan State University; M.S., Michigan State University;  
Ph.D., Michigan State University
- GLENN A. JACKSON Assistant Professor of Engineering  
A.A., Burlington College; B.S.E.E., University of Denver;  
M.S.E.E., University of Denver; Ph.D., University of Michigan
- KEITH R. KLECKNER Assistant Dean  
Associate Professor of Engineering  
B.E.E., Cornell University; Ph.D., Cornell University
- KEEVE M. SIEGEL Visiting Professor of Engineering  
B.S., Rensselaer Polytechnic Institute;  
M.S., Rensselaer Polytechnic Institute
- ANTHONY G. VASEK Instructor in Engineering  
B.A., St. Joseph's College; B.Ae.E., University of Detroit;  
M.S., University of Detroit
- GILBERT L. WEDEKIND Associate Professor of Engineering  
B.S.M.E., University of Illinois; M.S.M.E., University of Illinois;  
Ph.D., University of Illinois
- TUNG H. WENG Assistant Professor of Engineering  
B.S.E.E., National Taiwan University; M.S.E.E., University of Iowa;  
Ph.D., University of Missouri
- HOWARD R. WITT Assistant Dean  
Associate Professor of Engineering  
B.A.Sc., University of Toronto; M.S.E., Princeton University;  
Ph.D., Cornell University

## UNDERGRADUATE CURRICULUM IN ENGINEERING

The undergraduate engineering program at Oakland University is built on the broad intellectual base of the University's imaginative program in liberal arts and the sciences and is designed to provide a comprehensive academic preparation for students planning to enter the engineering profession. It is intended espe-

cially for the relatively able student entering one of the newer fields of engineering and leads to the degree of Bachelor of Science.

The curriculum stresses the fundamentals of science and mathematics as well as of engineering. During the freshman and sophomore years in particular, each student majoring in engineering takes extensive work in mathematics, the physical sciences, and the life sciences as a foundation for his or her professional studies. A series of engineering courses ranging from thermodynamics and electronics to the mechanics of solids completes the foundation. The content of the nine engineering courses in this core curriculum is essential to the preparation of professional engineers. The schedule is arranged so that a student takes at least one course in engineering each semester, starting in the freshman year. This early introduction to engineering provides career motivation and alleviates crowding of technical courses late in a student's program.

The undergraduate program emphasizes the digital computer and electronic analog computer simulation. The initial course in engineering (EGR 101) introduces students to digital computer FORTRAN programming, and computers are used in each subsequent engineering course.

During his or her senior year, the engineering student specializes in a particular area of his or her own choice. Regular advanced courses (EGR-400 series) are available in such areas as electronics, control systems, computer science, and transport phenomena. Additional courses on Special Topics (EGR 405) are offered for credit in a variety of other engineering fields. To prepare the student for independent project work in his or her senior year, the engineering laboratories taken in the first six semesters consist of open-ended experiments. In consultation with the instructor, the student is permitted to design, assemble, analyze, and report on his or her own experiments. He or she is encouraged to use the student machine shop and the electronics shop to construct apparatus not otherwise available, and he or she may call upon an instrument maker and an electronics technician for aid in designing more complex pieces of equipment. The Senior Engineering Project (EGR 409) is an extension of this concept. In this course the student and his or her professor agree upon a design project, the schedule for its completion, the cost of materials and labor, and the number of credits to be earned by the student. This concept of individual responsibility tends to stimulate in the student the maturity and self-reliance required of every successful engineer and provides opportunity for study in depth in a specialized area of interest.

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The School of Engineering has pioneered an exciting involvement of undergraduates in research. A number of students from the freshman to the senior levels participate in the program and are paid for their efforts. The student research assistants make a definite contribution to the various research laboratories, and they derive increased maturity, responsibility, and technical competence as a result of their participation.

Entering freshmen planning to major in engineering should present at least three years of high school mathematics, including one-half unit of trigonometry. Additional high school courses in mathematics, the laboratory sciences, and English are most desirable. Preparation in elementary drafting and machine shop practice is also useful.

## TRANSFER STUDENTS

Courses in mathematics, English, and the physical sciences essential to the study of engineering are available in many liberal arts colleges and community junior colleges. Often these are offered as a part of a complete two-year program designed to meet the requirements for study of engineering at the professional level in other colleges and universities.

Students with any amount of college credit will be considered for transfer admission. However, since the engineering program at Oakland University is based on a strong foundation in mathematics and the physical sciences, a student planning to transfer into it should carefully consider the advantages of completing such basic pre-engineering programs before applying for transfer.

As many as possible of the following credits should be presented for transfer: analytic geometry and calculus including linear algebra and differential equations (four courses); introductory college physics covering mechanics, electricity and magnetism, wave motion and optics and using calculus in its instruction (two courses); modern physics covering atomic and nuclear phenomena (one course); college chemistry including laboratory (one or two courses). Other credits presented in mathematics, science, or engineering will be evaluated with reference to the engineering courses required at Oakland University for graduation. Technician course credits are not generally applicable to these requirements. Students must have a grade of "C" or better in each course presented for transfer credit.

Students planning to transfer are encouraged to accumulate equivalents of certain liberal arts requirements of the Oakland

University engineering program outlined below, but not at the expense of the mathematics and physical science requirements outlined above.

See pp. 252-55 for other information regarding admission of transfer students.

### ACCREDITATION

The undergraduate engineering program of Oakland University has been fully accredited by the North Central Association of Colleges and Secondary Schools and by the Engineers' Council for Professional Development, which is the official accrediting agency for the engineering profession in the United States and Canada.

### CAREER PREPARATION IN ENGINEERING

The engineering program at Oakland University is designed to allow the maximum possible latitude in the choice of industrial careers; it also prepares students who wish to enter outstanding graduate schools. Serving both these goals, the engineering core program and advanced engineering electives combine to form an overall program at Oakland University that is equivalent in scope and depth to the typical requirements in specialized curricula in other fine schools of engineering. The School of Engineering at Oakland University, however, does not force a student to make a premature choice of career specialization. The student, in consultation with his or her adviser, selects a schedule of courses in the area of his or her choice. Listed here for guidance are a few typical options.

#### Computer Science

Computer science consists of the design and abstract modeling of information processing systems for application to modern problems. The design of computer systems includes the development of internal machine operating procedures and of new computer languages as well as design of the physical components. These three subjects are therefore generally referred to as computer architecture, software, and hardware, respectively.

The modern engineering program at Oakland University also places major emphasis on the use of the computer as a tool in solving a wide range of technological and scientific problems. Following the core program, the student interested in computer science should elect Digital Computer Methods in Engineering (EGR

## **ENGINEERING**

480), the compiler structures option of Special Topics (EGR 405), Hybrid Computation and Simulation (EGR 481), and Switching Theory (EGR 485).

### **Electrical Engineering**

The student preparing for specialization in electrical engineering should elect Signal and System Analysis (EGR 425) and Advanced Electronics (EGR 426) and should give consideration to further work in Communication Systems (EGR 427), Automatic Control Systems (EGR 431), or Electric and Magnetic Fields (EGR 445).

### **Systems Engineering**

The systems engineer develops automatic controls for a wide variety of physical processes. To the core program the student in this field should add Signal and System Analysis (EGR 425), Automatic Control Systems (EGR 431), and Analysis of Nonlinear Systems (EGR 432).

### **Mechanical Engineering**

The student wishing to enter mechanical engineering should elect Thermal Energy Transport (EGR 448) and Fluid Transport (EGR 449), as well as courses in materials, systems, or energy conversion, depending upon his or her particular interests.

### **Materials Engineering**

To the materials courses in the core program and the required course in Modern Physics (PHY 371), students in materials engineering should consider adding courses in chemistry beyond CHM 114. Advanced work in electronic properties of materials and mechanical properties of materials is available through Special Topics (EGR 405) and the Senior Engineering Project (EGR 409).

### **Engineering Management**

Engineering students interested in technical sales and technical management will wish to add electives from the School of Economics and Management, such as Management Information and Control Systems I (MGT 200), Microeconomic Analysis (ECN 216), and Economic Growth, Fluctuations, and Forecasting (MGT 303).

### **Biological Engineering**

Biological engineering is one of the rapidly developing frontiers

of engineering. Oakland University is unusual in including a program in biology in its regular requirements for engineering students. Further work may be taken through Special Topics (EGR 405) and in cooperation with the Department of Biological Sciences, e.g., Biophysics (BIO 425).

### Energetics

The student preparing for a career involving such applications as plasma engineering, magnetohydrodynamics, ion propulsion, and fuel cells should add to the core program Electric and Magnetic Fields (EGR 445) and Direct Energy Conversion (EGR 454).

### Other Fields

Many fields of student interest such as nuclear engineering, for example, are primarily areas of graduate specialization. The program at Oakland University gives excellent preparation for these fields. Some areas of undergraduate specialization such as mining engineering and textile engineering are not offered at Oakland University. The prospective student should consult the Office of Admissions or the School of Engineering on the availability of preparation for any particular field of interest.

## GENERAL EDUCATION

Oakland University requires all undergraduates in degree programs to share in a series of courses designed to provide a broadening intellectual experience in liberal education. Typically, engineering students meet this general education requirement by participating in the University Course Program. (See pp. 40-44 of this catalog for course descriptions.) It is also possible for engineering students to meet this requirement by enrollment in Allport College, Charter College, or New College; engineering students taking one of these latter options, however, may find they need more than eight semesters in which to meet the requirements for the degree of Bachelor of Science.

For information on the University's diversified programs for off-campus study, see pp. 189-90.

### University Course Program

1. Each student is required to complete two Freshman Exploratories (8 credits) within the first three semesters. These Freshman Exploratories, taught in seminar-sized classes, offer an opportunity

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for the student to explore a wide variety of liberal arts subjects. They are intended to develop the student's ability to think, to discuss, and to write intelligently and critically.

2. Each student is required to pursue further study in the fields of Literature, Western History and Philosophy, Fine Arts, Social Sciences, and Area Studies. These Distribution Requirements are normally met by courses elected throughout the student's eight semesters of study.

3. In the senior year, each student must participate in a Senior Colloquium. The Senior Colloquium serves to focus attention upon issues of liberal intellectual concern.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

A student with a major in engineering must meet the following requirements in order to graduate:

1. Have completed at least 124 credits.
2. Have completed 32 credits at Oakland University. At least 16 of these credits must be in engineering. A student must be registered at Oakland University for at least 8 credits during the semester in which the degree is to be conferred.
3. Have a cumulative grade point average in courses taken at Oakland University of at least 2.0.
4. Have completed at least 8 credits in electives.
5. Have completed at least 24 credits in the University Course Program (including two Freshman Exploratories and a Senior Colloquium), or in Allport College, Charter College, or New College. (See pp. 40-53 of this catalog for course descriptions.)

All students, unless they have transferred equivalent credits from another institution, should take one and only one Freshman Exploratory in each of their 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 (Social Sciences), and Area Studies. Any student who has not satisfactorily completed two Exploratories in the first three semesters may be declared ineligible to continue as an enrolled student by action of the Committee on Academic Standing. Successful completion of two Exploratories satisfies the University writing competency requirement. No student may re-

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ceive credit for more than two Exploratories, including equivalent credits for courses taken at other institutions. The Freshman Exploratories, if in Literature (UC 01A), Western History and Philosophy (UC 01B), Fine Arts (UC 01C), Man and Contemporary Society (Social Sciences, UC 01D), or Area Studies (UC 01E) satisfy equivalent Distribution Requirements in these fields for the student in engineering.

Students must take a Senior Colloquium in one of their last two semesters in residence. Students in engineering may use the Senior Colloquium to satisfy the equivalent Distribution Requirement. In planning their programs engineering students should note that the Senior Colloquia in Literature (UC 09A), Western History and Philosophy (UC 09B), and Man and Contemporary Society (Social Sciences, UC 09D) are offered each semester, whereas those in Fine Arts (UC 09C) and Area Studies (UC 09E) are only offered from time to time.

The 24 credits (including the 8 credits in Freshman Exploratories and the 4 credits in the Senior Colloquium) must be distributed as follows:

- A. Literature: 4 credits.  
(UC 018, ENG 105, ENG 111, or any course in modern foreign languages numbered 271 or higher and especially those numbered 285.)
- B. Western History and Philosophy: 4 credits.  
(UC 036, UC 037, ED 244, HST 141, HST 142, or PS 272.)
- C. Fine Arts: 4 credits.  
(UC 047 or UC 049.)
- D. Social Sciences: 8 credits.  
(UC 052, UC 054, UC 056, UC 058, AN 102, PS 131, PSY 146.)
- E. Area Studies: 4 credits.  
(UC 062, UC 064, UC 066, or UC 068. Enrollment in these courses is limited to those who have completed at least one Freshman Exploratory.)
6. Have fulfilled the requirements for Michigan Public Law 229, by taking either the University Course in political science (UC 052), any combination of two other courses that satisfy the University Course social science requirement, or the American history sequence (HST 214, 215).
7. Have completed the engineering core program, which consists of EGR 101, 172, 215, 225, 241, 326, 344, 345, and 361, and in

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addition 12 credits in 400-level courses approved by the student's adviser. The cumulative grade point average attained in the engineering core courses and the 400-level elective courses must be at least 2.0.

8. Have completed PHY 151, 152, and 371; MTH 154, 155, 254, and 255; CHM 114; and BIO 108 or a substitute course in biology or chemistry approved by the student's adviser.

The term "complete" as used above means either to establish credit in a course (by earning a passing grade in the course or by receiving transfer credit from another institution) or to have the course requirement formally waived either by test or by a successful Petition of Exception (via the Registrar to the appropriate Committee on Instruction). A student may demonstrate proficiency in a course in which he or she is not registered; the course requirement will be waived but no academic credit or grade will be given for the course. In exceptional cases, credit may be awarded, provided that such credit shall not exceed 20 per cent of the credits earned at Oakland University for the degree of Bachelor of Science. The number of credits will be entered in the "transfer credit" column on the student's record.

To assure orderly progress towards satisfying degree requirements each engineering student who has earned more than 56 credits is required to follow a Plan of Study. The Plan of Study form is a timetable of courses to be taken for undergraduate credit. It is usually submitted during the first semester following completion of 56 credits. Transfer students are required to submit a Plan of Study at the time they enter Oakland, regardless of the number of credits earned. The forms are completed by the student in consultation with his or her adviser, and they must be approved by the Dean's Office. An approved Plan of Study is required for admission to major standing in engineering.

## REQUIREMENTS FOR ADMISSION TO MAJOR STANDING IN ENGINEERING

A student must have completed 56 credits before he or she may formally be admitted to major standing. It is the engineering student's responsibility to apply for major standing, at the Office of the Dean of the School of Engineering, at the beginning of the first semester following completion of 56 credits. To be eligible for major standing, a student must have completed at least two engineering courses, have attained at least a 2.0 cumulative grade

point average in all engineering courses taken at Oakland University, and have an approved Plan of Study.

## BACHELOR OF SCIENCE MAJOR IN ENGINEERING

(A Typical Program)

### Semester 1

Freshman Exploratory

EGR 101

MTH 154

CHM 114

### Semester 3

EGR 215

MTH 254

PHY 152

Distribution Requirement

### Semester 5

EGR 326

EGR 345

EGR 361

Elective

### Semester 7

EGR (400 level)

PHY 371

Distribution Requirement

Elective

### Semester 2

Freshman Exploratory

EGR 172

MTH 155

PHY 151

### Semester 4

EGR 225

EGR 241

MTH 255

Distribution Requirement

### Semester 6

EGR 344

EGR (400 level)

BIO 108

Elective

### Semester 8

Senior Colloquium

EGR (400 level)

Elective

Elective

## UNDERGRADUATE COURSE OFFERINGS

### REGULATIONS GOVERNING COURSES

1. A course sequence joined by a hyphen (e.g., MTH 154-155) must be taken in the order indicated. The first course in such a sequence is regarded as a prerequisite to that following. A department or school has, however, the right to waive these and any other prerequisite course requirements.
2. 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.
3. 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.

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

### **EGR 101 Introduction to Engineering Design (Core) (4 credits)**

An introduction to the philosophy and tools of preliminary design. The digital computer and graphical data reduction, statistics, economics, energy, and thermodynamics as well as human factors and information concepts are applied to the solution of engineering design problems. Offered in the Fall Semester.

### **EGR 108 Drafting (1 credit)**

Introduction to the use of drafting instruments and drafting procedures. Offered in the Fall and Winter Semesters.

Prerequisite: Consent of the instructor.

### **EGR 111 Shop Practice (1 credit)**

Introduction to basic machining principles and machine shop techniques, with emphasis on practical experience. Offered in the Fall and Winter Semesters.

Prerequisite: Consent of the instructor.

### **EGR 172 Properties of Materials (Core) (4 credits)**

The atomic, molecular, and crystalline structure of solids, including a description of x-ray analysis, metallography, and other methods for determining structure; correlation of structure with the electric, magnetic, and mechanical properties of solids. Offered in the Fall and Winter Semesters.

### **EGR 180 Introduction to Computer Programming (2 credits)**

Computer programming and problem solving; use of FORTRAN. A student who has received prior credit for EGR 101 may not receive credit for EGR 180. Offered in the Fall and Winter Semesters.

### **EGR 181 Intermediate Computer Programming (2 credits)**

Advanced FORTRAN programming: subprogramming; output; data storage and manipulation; disk and tape operations; matrix manipulation; logical and complex variables and operations. Use of compilers and system monitors. Elementary numerical methods: algebraic equations; polynomial factoring; least squares curve fitting; statistical methods. Offered in the Fall and Winter Semesters.

Prerequisite: EGR 101 or EGR 180.

### **EGR 215 Statics and Dynamics (Core) (4 credits)**

A vector treatment of mechanics which includes particle statics, equilibrium of rigid bodies, analysis of structures, friction, centroids and moments of inertia, particle dynamics, lumped-parameter linear mechanical systems, numerical integration, and computer solution of system dynamical equations. Offered in the Fall and Winter Semesters.

Prerequisites or corequisites: MTH 154 and PHY 151.

### **EGR 225 Lumped-Parameter Linear Systems (Core) (4 credits)**

A unified approach for steady-state and transient analysis of electrical, mechanical, fluid, and thermal lumped-parameter linear systems. Network elements and formulation procedures for differential equations. Analogies, phasors, impedance concept, natural and forced behavior, resonance, complex frequency plane, Laplace transforms, frequency response, network theorems. Use of analog and digital computers to solve differential equations for these systems. Offered in the Fall and Winter Semesters.

Prerequisites: EGR 215, PHY 152, and MTH 155.

**EGR 241 Thermodynamics (Core) (4 credits)**

Introduction to fundamental concepts, thermal energy, thermodynamic properties and equilibrium, basic physical laws of thermodynamics; entropy and its consequences, reversible energy transfers in both open and closed systems; application of thermodynamics to systems involving energy conversion and transport. Offered in the Fall and Winter Semesters.

Prerequisite: CHM 114.

Prerequisite or corequisite: MTH 254.

**EGR 326 Electronic Circuit Design (Core) (4 credits)**

Analysis and design of solid-state electronic circuits. Non-linear dissipative characteristics, large-signal analysis of amplifiers, small-signal analysis of active two ports, voltage amplification, transducers, feedback. Offered in the Fall and Winter Semesters.

Prerequisite: EGR 225.

Prerequisite or corequisite: MTH 254.

**EGR 344 Fields and Waves (Core) (4 credits)**

Unified approach to distributed phenomena and waves, mechanical vibrations, coupled modes, electromagnetic waves, interference, diffraction, waves in dispersive media, wave mechanics. Offered in the Fall and Winter Semesters.

Prerequisites: PHY 152 and MTH 254.

**EGR 345 Introduction to Fluid and Thermal Energy Transport (Core) (4 credits)**

Fundamentals of fluid mechanics, properties of fluids, conservation principles; viscous and inviscid flow; laminar and turbulent flow; boundary layer theory; basic concepts of heat transfer; fundamental modes: conduction, convection, and thermal radiation; applications to problems of engineering interest. Offered in the Fall and Winter Semesters.

Prerequisite: EGR 241.

**EGR 361 Mechanics of Materials (Core) (4 credits)**

An introduction to the mechanics of deformable bodies; the distribution of stress and strain in beams, shafts, and columns. Both elastic and plastic materials are considered, including the effects of temperature change. Offered in the Fall and Winter Semesters.

Prerequisites: EGR 215 and MTH 155.

**EGR 400 Engineering Seminar (1 credit)**

Lectures and discussions conducted by members of the faculty, graduate students, and invited speakers from industry and other universities. Various topics will be covered, but emphasis will be on current research interests of the School. May be taken for a maximum of 2 credit hours. Offered in the Fall and Winter Semesters.

**EGR 405 Special Topics (4 credits)**

Advanced study in special areas. May be taken more than once. Offered in the Fall and Winter Semesters.

**EGR 409 Senior Engineering Project (2, 4, 6, or 8 credits)**

Independent work on advanced laboratory projects; topics to be chosen by the student in consultation with an instructor. May be taken more than once. Offered in the Fall and Winter Semesters.

**EGR 425 Signal and System Analysis (4 credits)**

The analysis and synthesis of complex signals and the response of linear systems to complex signals. Singularity functions, orthogonal bases, Fourier synthesis of periodic

## ENGINEERING

signals. Exponential synthesis of aperiodic signals, double-sided Laplace transforms, Fourier transforms. Frequency response, time-bandwidth reciprocity, generalized modulation and sampling. A wide range of applications to engineering systems. Offered in the Fall and Winter Semesters.

Prerequisites: EGR 326 and MTH 254.

### **EGR 426      Advanced Electronics      (4 credits)**

A continued study of concepts and techniques of electronics selected as examples of advanced thinking. Recent areas of concentration have been: (a) communication electronics—high-frequency transistor behavior, design of multistage transistor amplifiers, modulation and demodulation, computer simulation of modulated waveforms, oscillators, resonant load amplifiers; and (b) pulse techniques—linear wave shaping, pulse transformers and transmission lines, switching characteristics of devices, clipping and clamping circuits, multivibrators, negative-resistance devices, and switching circuits. Offered in the Fall and Winter Semesters.

Prerequisite: EGR 326.

### **EGR 427      Communication Systems      (4 credits)**

An introduction to the problem of communication in the presence of noise. Introductory probability, random variables, and the random process, with application to the characterization and analysis of noise and random signals. Amplitude and frequency modulation systems, pulse modulation techniques, and the elements of detection theory. Offered in the Winter Semester.

Prerequisite: EGR 344 or EGR 425.

### **EGR 431      Automatic Control Systems      (4 credits)**

Review of basic methods for determining the equations of motion of various types of linear components and systems. Transient response to deterministic inputs and the definition of Lagrangian stability. The root locus method. Open- and closed-loop frequency response. Bode and Nyquist diagrams. Compensating networks. Use of analog computers in control system design. Offered in the Winter Semester.

Prerequisites: MTH 255 and EGR 326.

### **EGR 432      Analysis of Nonlinear Systems      (4 credits)**

Analysis of first- and second-order nonlinear physical systems with many engineering applications. Piecewise-linear models for zero-memory systems. Phase-plane analysis for autonomous systems; singular points, equilibrium, limit cycles. Stability analysis via theorems of Poincaré, Lienard, and Bendixson. Perturbation theory with applications to both forced and autonomous systems, averaging methods. Subharmonics, jump phenomena, and frequency entrainment in forced systems. Offered in the Fall Semester.

Prerequisites: MTH 255 and EGR 326.

### **EGR 445      Electric and Magnetic Fields      (4 credits)**

Introduction to the fundamental concepts of electric and magnetic fields. Fundamental laws, basic postulates, Maxwell's equations. Electrostatics, magnetic fields of steady currents, time varying fields, waves, transmission lines, reflection and refraction at interfaces, guided waves, radiation and elementary radiators. Use of computers for solution of practical problems. Offered in the Fall Semester.

Prerequisite: EGR 344.

### **EGR 448      Thermal Energy Transport      (4 credits)**

A continued study of the basic concepts, properties, and descriptions of the three fundamental modes of heat transfer (conduction, convection, and thermal radiation); theoretical, numerical, and analogical methods of analysis of steady, transient, single-

## ENGINEERING

and multi-dimensional problems; with laboratory. Offered in the Winter Semester.  
Prerequisites: EGR 345 and MTH 255; or consent of the instructor.

### **EGR 449 Fluid Transport (4 credits)**

A continued study of the fundamentals of fluid mechanics and their applications; potential flow of inviscid fluids, laminar and turbulent boundary layer theory, compressible flow; similarity, modeling, and dimensional analysis. Offered in the Fall Semester.

Prerequisites: EGR 345 and MTH 255; or consent of the instructor.

### **EGR 454 Direct Energy Conversion (4 credits)**

Thermoelectric engines, thermionic converters, magnetohydrodynamic engines, photo-voltaic effect and solar cells, free energy and fuel cells.

Prerequisites: EGR 241 and EGR 326.

### **EGR 480 Digital Computer Methods in Engineering (4 credits)**

The application of digital computer numerical methods to engineering problems. Classical methods for solving general algebraic equations, polynomial factoring, Runge-Kutta and predictor-corrector methods for solution of ordinary differential equations and matrix computer methods. Also included are various contemporary methods such as Laplace transform inversion, Latin Squares techniques, partial differential equations and the Fast Fourier Transform. Emphasis is placed on student development of general purpose subroutines for use in engineering applications. Offered in the Winter Semester.

Prerequisite: EGR 326.

### **EGR 481 Hybrid Computation and Simulation (4 credits)**

An introduction to the application of hybrid and iterative analog computing techniques to large scale engineering problems. Sampling, split simulation, nonlinear function generation, time-delay generation, parameter optimization, partial differential equations, and error analysis of hybrid computing systems. Offered in the Fall Semester.

Prerequisite: EGR 326 or consent of the instructor.

### **EGR 485 Switching Theory (4 credits)**

Boolean algebraic symbolization for nets of binary switched circuits such as counters, timers, and coders for typical computer subsystems. Constructive computation of nonredundant expansions by formal matrix methods are considered and translated into laboratory devices with building block computer elements for computation and on-line data reduction. Introduction to sequential switching decomposition for control and programming of systems. Offered in the Winter Semester.

Prerequisite: EGR 326 or consent of the instructor.

## GRADUATE CURRICULUM IN ENGINEERING

For detailed descriptions of graduate courses and admission requirements, see the Graduate Bulletin. The School of Engineering presently offers instruction leading to the degree of Master of Science in systems engineering. Options may be pursued in control and communication systems; energy systems; computer science; and electromagnetic and optical systems.

## ENGINEERING

### GRADUATE COURSE OFFERINGS

<b>EGR 500</b>	<b>Graduate Seminar</b>	<b>(1 credit)</b>
<b>EGR 505</b>	<b>Special Topics in Engineering</b>	<b>(4 credits)</b>
<b>EGR 509</b>	<b>Engineering Design Project</b> <b>(2, 4, 6, 8, 10, or 12 credits)</b>	
<b>EGR 510</b>	<b>Engineering Fields</b>	<b>(4 credits)</b>
<b>EGR 520</b>	<b>Analysis and Synthesis of Linear Control Systems</b>	<b>(4 credits)</b>
<b>EGR 521</b>	<b>Modern Topics in Control Engineering</b>	<b>(4 credits)</b>
<b>EGR 530</b>	<b>Introduction to Random Signals and Systems</b>	<b>(4 credits)</b>
<b>EGR 535</b>	<b>Large Scale Systems</b>	<b>(4 credits)</b>
<b>EGR 540</b>	<b>Electromagnetic Signals and Waves</b>	<b>(4 credits)</b>
<b>EGR 550</b>	<b>Coherent Optics</b>	<b>(4 credits)</b>
<b>EGR 551</b>	<b>Convective Transport Phenomena</b>	<b>(4 credits)</b>
<b>EGR 552</b>	<b>Thermal Transport Phenomena</b>	<b>(4 credits)</b>
<b>EGR 555</b>	<b>Energy and Information Systems</b>	<b>(4 credits)</b>
<b>EGR 580</b>	<b>Digital Computer Methods in Engineering</b>	<b>(4 credits)</b>
<b>EGR 581</b>	<b>Hybrid Computation and Simulation</b>	<b>(4 credits)</b>
<b>EGR 585</b>	<b>Switching Theory</b>	<b>(4 credits)</b>

# SCHOOL OF PERFORMING ARTS

## OFFICERS OF ADMINISTRATION

W. W. KENT	Associate Dean
JERRY L. DAHLMANN	Administrative Director Academy of Dramatic Art

## OFFICERS OF INSTRUCTION

DONALD D. O'DOWD	Chancellor
A.B., Dartmouth College; M.A., Harvard University; Ph.D., Harvard University	Provost

FLORENCE T. CASTNER	Lecturer in Movement, Academy of Dramatic Art
Professional artist in residence.	

JOHN B. FERNALD	Professor of Dramatic Art Director, Academy of Dramatic Art Artistic Director, Meadow Brook Theatre
Fellow, Royal Society of Arts, Great Britain	

J. DOUGLAS HILL	Lecturer in Technique, Academy of Dramatic Art
B.A., Eastern Michigan University	

W. W. KENT	Associate Professor of Performing Arts Associate Dean, School of Performing Arts
B.M.E., University of Kansas; M.M., University of Illinois	

TERENCE E. KILBURN	Lecturer in Acting, Academy of Dramatic Art
Professional artist in residence; actor, director, dramatist	

PAUL A. D. LEE	Lecturer in Acting, Academy of Dramatic Art
Professional artist in residence; actor, director, dramatist	

IRIS J. MacGREGOR	Lecturer in Voice, Academy of Dramatic Art
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R.B.T.C.D., Rose Bruford College, London;  
A.D.B. and L.G.S.M., University of London

ADA B. MATHER	Lecturer in Acting, Academy of Dramatic Art
Professional artist in residence; actress, director, dramatist	

## PERFORMING ARTS

MALCOLM J. MORRISON                      Lecturer and Voice and Acting,  
Academy of Dramatic Art  
Diploma (Speech and Drama), Rose Bruford College, London;  
Certificate, International Phonetics Association

COLIN M. PINNEY                                      Lecturer in Acting,  
Academy of Dramatic Art  
B.S.C., A.R.C.S., and D.I.C., University of London

CHRISTOPHER A. ROSS-SMITH                      Lecturer in Voice and Acting,  
B.A., Natal University, South Africa;                      Academy of Dramatic Art  
Diploma (Speech and Drama), Rose Bruford College, London;  
Fellow, Trinity College of Music, London

Oakland University constitutes a unique cultural and intellectual milieu in which the School of Performing Arts is enabled to concentrate upon the exacting realities of requirement and opportunity in the contemporary world of the professional performing arts. A distinguished faculty consisting of successful performers with a vocation to teach offers unusual advantages to students of exceptional talent and potential. Because some members of the faculty are artists-in-residence, permanent senior teacher-performers, or visiting artists of the Meadow Brook Theatre or the Meadow Brook Music Festival, the training of students is directly linked with the current practices and standards of the finest professional artists. The ambiance of the University's professional performing arts enterprises affords to the corresponding training courses of the School both models and masters.

All courses of the School embody the highest quality of training. Through specialized curricula and schedules, these courses prepare young artists for careers on the theatrical or concert stage. The criterion of achievement is excellence; the criterion of excellence is based on competitive professional performance. Every effort is also made to encourage in students a sense of the artist's responsibilities in society and to develop a concept of the performing arts as vital to the sound cultural health of society. Those who seek a place in the performing arts professions aspire to the combination of artistic sensitivity, awareness, and high achievement in performance capability, which is engendered by such programs. Graduates who demonstrate exceptional abilities and who reach requisite standards of performance may be invited to join the professional performing arts enterprises on the campus of Oakland University.

The faculty of the School of Performing Arts is authorized to

## PERFORMING ARTS

develop its own standards for performance, curriculum, admission, and graduation. These standards reflect the realities of competitive professional performance. No formal stipulation is made concerning the qualifications of candidates, but these programs best suit emergent actors and concert artists wishing to concentrate on the development of skills of competence. Moreover, experience shows that the more mature students derive most benefit from intensive training. Provided the student has a natural talent, the better his general education before entering professional training, the better is his chance of success. Candidates for admission must distinguish themselves in competitive performance and auditions. It is not expected that students will undertake other academic work while training in the programs of the School of Performing Arts.

The School of Performing Arts, through its relationship with resident performing artists in the Theatre and Festival, has launched two highly successful professional training courses. The Academy of Dramatic Art offers an intensive two-year acting course which normally selects its faculty from professionals associated with the John Fernald Company of the Meadow Brook Theatre. A high standard of performance is expected in all aspects of the training, and those who demonstrate the required excellence are eligible for the Academy's Diploma in Dramatic Art.

The School of Performing Arts is in process of reformulating its program in music. The unique concepts pioneered and developed by the summer music school during its five-year history and the remarkable attainments of its intensive institutes exemplify its meritorious contributions to music education. The opportunity, if not the necessity, to develop new institutional capabilities in the performing arts motivates the University in making the decision to suspend the summer music institutes for an indeterminate period of time in order to facilitate a comprehensive study of new concepts and formats better suited to summer instruction in the arts.

The scope of the School of Performing Arts continues to broaden. Plans are under way for conservatories of music and of the dance, as well as for master classes in the other performing arts. As essential elements of a comprehensive enterprise in the performing arts, television and film are cited for later inclusion. Both present and future programs of professional training will extend and deepen the significant contribution Oakland University seeks to make to the larger community through its dynamic and diversifying center for the performing arts.

The School of Performing Arts endeavors, then, to concentrate

## PERFORMING ARTS

on the diversification and refinement of skills of competence; it also assumes a major responsibility for the development of knowledgeable, alert audiences of tomorrow. The confluence of these concerns, to elevate performance capability and to foster artistic sensitivity and awareness, marks the larger purpose of the University in entering this area.

## ACADEMY OF DRAMATIC ART

John B. Fernald  
Jerry L. Dahlmann

Director  
Administrative Director

## MEMBERS OF THE FACULTY

Florence T. Castner	Lecturer in Movement
John B. Fernald	Professor of Dramatic Art
J. Douglas Hill	Lecturer in Technique
Terence E. Kilburn	Lecturer in Acting
Paul A. D. Lee	Lecturer in Acting
Iris J. MacGregor	Lecturer in Voice
Ada B. Mather	Lecturer in Acting
Malcolm J. Morrison	Lecturer in Voice and Acting
Colin M. Pinney	Lecturer in Acting
Christopher A. Ross-Smith	Lecturer in Voice and Acting

The Academy of Dramatic Art provides practical training in acting for students who intend to make their career in the professional theatre. Intensive training in voice and speech, movement, and acting technique are coordinated so that students may appear in public performance as soon as their professional attainment is provable. The culmination of the training is the opportunity of performing in productions of the Studio Company. Here senior students aspire to refine their professional techniques in the living theatre. Under the leadership of John Fernald, who is at once Director of the Academy and Artistic Director of the Theatre, both the disciplines and experience of the resident professional actors and the diversified professional experience of other members of faculty help to shape and sharpen the emergent talents of the actors in the Studio Company.

A distinguished faculty, many of whom have served the Director during his long tenure as Principal of the Royal Academy of Dramatic Art in London, is chosen from among professional actors and directors with a vocation to teach. Specialized classes in style and technique complement the normal curriculum and have been given by such visiting members of faculty as Catherine

## PERFORMING ARTS

Fleming, a voice coach to the National Theatre Company, London, and vocal adviser to Sir Laurence Olivier; Johan Fillinger, distinguished Norwegian-American director and Ibsen scholar; and Milo Sperber, actor-director and playwright for the British Broadcasting Corporation.

Small classes of fifteen students permit close individual attention and cultivate the discipline necessary in the professional theatre. Full professional training requires a minimum period of two years, and candidates must be prepared to remain as full-time students for that period of time. Those who complete sixty credits and who satisfactorily pass each term's examinations are eligible for the Academy's Diploma in Dramatic Art. Provided the candidate has a natural talent for acting, the minimum educational requirement for entry is a high school diploma or its equivalent. Those who successfully pass competitive entrance auditions are admitted to the Academy. The caliber of training, together with the stimulus of the close link with the John Fernald Company of the Meadow Brook Theatre, places graduates at an advantage in seeking professional employment. Some graduates have been invited to join the resident company of the Meadow Brook Theatre. Others are now members of leading professional repertory companies across the nation.

All communications concerning the professional training course in acting, requests for the prospectus of the Academy, and requests for information on applications for audition should be directed to the Administrative Director of the Academy of Dramatic Art, Oakland University, Rochester, Michigan 48063.

# DIVISION OF CONTINUING EDUCATION

## OFFICERS OF ADMINISTRATION

DONALD D. O'DOWD Chancellor  
A.B., Dartmouth College; M.A., Harvard University;  
Ph.D., Harvard University

LOWELL R. EKLUND Dean  
B.S., Michigan State University; M.S., Syracuse University;  
Ph.D., Syracuse University

JAMES E. BOYCE Director of Courses  
B.I.E., General Motors Institute; M.S., Purdue University;  
Ph.D., Purdue University

ELEANOR DRIVER Assistant Director, Continuum Center

WILLIAM G. FOSTER, JR. Director of Public Relations  
A.B., Allegheny College; M.A., Michigan State University

PENINA FRANKEL Employment Adviser, Continuum Center  
B.A., Wayne State University; M.A., New York State University

PRISCILLA JACKSON Assistant Dean for Developmental Programs

KENNETH A. MEADE Assistant Dean for Special Programs  
A.B., Eastern Michigan University; M.S., University of Michigan;  
D.Sc. (Hon.), Eastern Michigan University

VIRGINIA MENZIES Registrar

MARGARET NOSHAY Administrative Assistant, Conferences  
B.A., University of Michigan

DOROTHY OWEN Associate Director of Conferences  
B.S., Purdue University

MARY B. SCHULTZ Director of Alumni Relations  
B.A., Oakland University; M.A., Michigan State University

GERALD SELF Director of Continuum Center  
B.A., Wayne State University; Ph.D., Adelphi University

MARGARET TWYMAN Administrative Assistant to the Dean

HARRY B. VAN HOOK, JR. Director, Management and  
Business Programs  
A.B., University of Michigan; A.M., University of Michigan

## CONTINUING EDUCATION

ESMO WOODS

B.A., Fisk University; M.A., Columbia University

Assistant Dean for Urban Affairs

Oakland University's Division of Continuing Education was, in September, 1958, the first of the academic divisions of the University to initiate its program. The Division offers a comprehensive and varied program of courses, conferences, and special events, open to adults of the community.

The University recognizes that education is a never-ending process. Because man never outlives his need for intellectual enlightenment in order to perform effectively his mature roles as worker, parent, and citizen, the University established the Division of Continuing Education. The program of the Division is thus an integral part of the University function. The University remains aware that the attainment of maturity through learning is never complete in the life of any individual. The pursuit of excellence is infinite; even the most dedicated student aspires to excellence he or she has not yet achieved.

Inherent in the philosophy of Oakland University is the wish to induce in students an insatiable hunger for more and more knowledge. Accordingly, the University extends to its graduates and to other members of the community maximum opportunity in a conducive environment and offers lively encouragement to all to continue their education throughout their lives.

The Division offers courses and conferences in professional and cultural subjects at a university level in content. The Division differs from other academic units of the University in that its only prerequisite for taking a course is the desire to learn.

A new series of courses is presented each term, and conferences on various subjects are held throughout the year. Currently, 200 courses are offered in the humanities, fine arts, business, engineering, government, and special skills.

In addition, the Division conducts numerous closed courses designed specifically to meet the needs of business, government, and social agencies. A Pre-College Study Center program is offered each summer to acquaint college-bound students with campus life, to sharpen their study skills, and to increase their proficiency in reading, composition, languages, and science. Opera workshops and preview lectures on the Meadow Brook Music Festival and the Meadow Brook Theatre are among the many cultural enterprises of the Division.

## CONTINUING EDUCATION

Conference subjects range from the problems of widows and divorcees to life insurance agency management. Local issues such as traffic safety and county home rule are studied by the officials and leaders of the community with the objective of mounting action programs leading to solutions or improvement.

The Division directs the Continuum Center for Women, which offers a unique and meaningful psychological testing program and specialized counseling service, and the Alumni Relations Department. It also administers the Alumni Education Department, which counsels former students in their choice of purposeful and planned programs of lifelong learning.

Course catalogs and informational brochures on programs are available upon request. Call 377-2000, extension 2171, or write the Division of Continuing Education, Oakland University, Rochester, Michigan 48063.

## ALUMNI RELATIONS

The Alumni Relations Office publishes regular issues of the **OU Alumni News**, conducts annual alumni reunions, administers the alumni fund drive, and maintains records of the alumni.

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

# ADMISSION, ADVISING, REGISTRATION, AND GRADING

## REQUIREMENTS FOR ADMISSION\*

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

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

## APPLICATION FOR ADMISSION

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

Students who are residents of the State of Michigan are strongly urged to present prior to registration either Scholastic Aptitude Test (SAT) results or scores from the American College Testing (ACT) Program. These test results will be used in advising students about courses of study and in assisting them to assess their qualifications for alternative course sequences within the curriculum. Students who are unable to submit results from either of the two national testing programs will be required to take tests at the University, administered by the Office of Psychological Services, prior to registration. There is a service charge for the University testing program.

\*For requirements for admission to the Academy of Dramatic Art, write to the Academy of Dramatic Art, Oakland University, Rochester, Michigan 48063.

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

## **ADMISSION AND GRADING**

### **APPLICATION FOR ADMISSION BY OUT-OF-STATE STUDENTS**

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

### **APPLICATION FOR ADMISSION BY FOREIGN STUDENTS**

A student from abroad should write to the Director of Admissions, Oakland University, Rochester 48063, at least a year before the time he or she hopes to be admitted. He or she will be sent instructions and an application form, which he or she should complete and return at once. When the application is approved, he or she will receive a certificate of permission to enter the University. However, prior to the student's official registration, proof of adequate medical insurance plus a signed authorization for emergency medical treatment must be on file in the University Health Center. These forms will help the student in making application for his or her passport and a student visa.

### **APPLICATION FOR ADMISSION TO UNDERGRADUATE PROVISIONAL AND GUEST ADMISSION STATUS**

Students enrolled at other colleges and universities may apply for guest admission status by filing the Michigan Uniform Undergraduate Guest Application blank, which is obtainable from the registrar's office of their home institution. In addition, students attending colleges outside the State of Michigan may apply for guest admission by filing Oakland University's guest application blank and arranging to have a transcript of grades forwarded to the Admissions Office. Students attending Michigan colleges and universities are not required to submit transcripts.

### **TRANSFER ADMISSION FROM SENIOR INSTITUTIONS**

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

## ADMISSION AND GRADING

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

### TRANSFER ADMISSION FROM COMMUNITY COLLEGES

Students planning to transfer to Oakland University from the community colleges are strongly urged to apply for admission no later than the beginning of the semester preceding the one in which they wish to enroll. For example, students who wish to begin their studies at Oakland in the Fall Semester are urged to file applications during the preceding spring, preferably by May 1 and no later than July 15. Applications may continue to be processed after the recommended deadline of July 15, but the University cannot guarantee late applicants all the services normally extended to the transfer student. These services include prompt review of the application for admission; a prompt report on advanced standing and academic status, which reflects the credits already earned at the community college (and other academic institutions); completion of an advising and orientation program; and registration in the particular courses needed to make orderly progress toward the bachelor's degree. Those who wish to enroll in the Winter Semester are requested to file their applications by September 1 and no later than October 15. Students seeking admission to the Spring or Summer Sessions are asked to observe comparable schedules.

A student may transfer as many as 62 academic credit hours earned at a community college. Transfer credit will be granted only for those courses in which a student received a C or 2.0 grade or better. Transfer credit will be granted for technical and applied science courses only where the courses are directly relevant to the intended major. Transfer credit cannot be granted for courses in physical education since there is no counterpart to such courses in the Oakland curricula.

It should also be emphasized that transfer students from the community colleges are eligible for the same financial aid programs as entering freshmen. This includes eligibility for grants, scholarships, low interest loans, and campus employment. This assistance is awarded on the bases of need and ability.

### Recommended Preparation for Transfer

Prospective transfer students from the community colleges are urged to select courses at the community college which will enable

## ADMISSION AND GRADING

them to make orderly progress toward the fulfillment of the general education, language, and major requirements for graduation from Oakland University. In each case, the student who intends to transfer is advised to choose courses at the community college which closely correspond to the academic disciplines noted below. The prospective transferee will not be expected to have completed courses exactly equivalent to comparable courses offered at Oakland in order to obtain transfer credit, but only to have completed similar courses directly related to the disciplines listed. It should be noted that it is particularly important that prospective transfer students complete the requirement of two semesters of English composition prior to transfer to Oakland University.

### A. General Education

1. English Composition — two semesters.
2. Fine Arts: Art and/or Music — one or two semesters.  
(Students who elected to take only two semesters in science and/or mathematics must take two courses in the fine arts, both art and music.)
3. Literature — one semester.
4. Social Sciences — two semesters.  
(Students planning a career in elementary or secondary education should complete one semester in psychology and one semester in one other social science.)
5. History and/or Philosophy of Western Civilization — one semester.
6. Non-Western Civilizations (China, India, Africa, or other) — one semester.
7. Science and/or Mathematics — two or three semesters.  
(See Fine Arts, above.)

### B. Language Study

All majors at Oakland University require at least two semesters of a foreign language for graduation, and it is recommended, although not essential, that transfer students complete all or most of this requirement during their freshman and sophomore years. Students who wish to pursue programs in the Schools of Education, Engineering, or Economics and Management, or who major in biology, chemistry, or physics in the College of Arts and Sciences, must complete only two semesters of a foreign language for

## ADMISSION AND GRADING

graduation; such students also have the option to fulfill this language requirement by completing a two-semester sequence in linguistics. All other majors in the College of Arts and Sciences must complete four semesters of a foreign language for graduation or demonstrate a similar level of competence in a proficiency examination. The options for language study include Chinese, French, German, Greek, Latin, Russian, and Spanish.

Language placement examinations are administered during each orientation session for transfer students who did not complete the entire language requirement of the intended major while at the community college (or other institution). These examinations are administered in order to insure placement in language courses at Oakland University which are in a sequence and at a level commensurate with the student's ability.

### C. Major Field of Concentration

All major fields normally require approximately 36 to 48 semester hours in courses within the major for graduation; engineering, education, and some departments in the College of Arts and Sciences (including the physical and life sciences) also require additional course work in related fields. The prospective transferee is strongly advised to consult the appropriate portions of the Oakland University General Catalog for the requirements of the intended major, complete some basic courses prerequisite to those requirements, and in general pursue a course of studies at the community college that will prepare him or her for acceptance and orderly progress toward graduation in the preferred major program.

## ADVANCED PLACEMENT

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

## HEALTH CERTIFICATION REQUIREMENT

As a condition of enrollment, all full-time students must complete a physical examination. The results of the examination should be recorded on the University health form, and this form must be

## **ADMISSION AND GRADING**

submitted to the Health Center prior to enrollment. If a student's form is not on file in the Health Center, he or she will not be permitted to register. A full-time student is one who is carrying 10 or more credits. All full-time transfer students may request that their physical examination records be sent from their previous institutions.

## **ORIENTATION**

Freshman orientation is designed to introduce new students to academic programs and to campus life at Oakland University. The summer orientation program provides an opportunity for entering students to meet other students and faculty who can help them to anticipate the opportunities afforded by a university education and the responsibilities inherent in receiving such an education. From these meetings freshmen gain some insight into the distinctive character of Oakland University. At orientation students take placement tests, receive academic advising, participate in campus activities, and attend information meetings which are helpful in acclimating students to college. All new students, except those from other states and foreign countries, are expected to attend one of the summer orientation programs. Out-of-state and foreign students will participate in an orientation program after their arrival on campus and before attending classes in the fall. A fee of \$35 is charged to cover the cost of freshman orientation.

New transfer students must attend a special orientation session late in the summer. A fee of \$10 is charged to cover the cost of transfer student orientation.

## **ACADEMIC ADVISING**

Every student is assigned to a member of the faculty who serves as his or her academic adviser.

## **ADVISERS FOR FRESHMEN**

Academic advisers for first-year students are selected to provide special assistance to freshmen because of the problems and opportunities that are unique to the freshman year. Each freshman is assigned both a faculty and a student adviser who work jointly in assisting the new student to understand and effectively deal with his or her new environment. Specifically, some of the many functions of advisers for freshmen are:

(a) To provide a meaningful description and interpretation of the academic programs at Oakland University.

## ADMISSION AND GRADING

- (b) To assist freshmen with the formulation and achievement of their educational objectives.
- (c) To help them become acclimated to university life (particularly to the academic programs), giving individual attention and guidance to those with special concerns.
- (d) To develop a personal understanding of and appreciation for each advisee as an individual in order to be able to facilitate his academic progress and personal development.

Freshmen who have questions about the orientation and advising programs should direct them to the Dean of Freshmen.

## ADVISERS FOR UPPERCLASSMEN

At the end of the freshman year each student is reassigned to an adviser in the department in which he or she intends to major. It is the adviser's function to help the student select his or her courses, develop his or her educational objectives and career interests, resolve problems related to academic procedures, and derive the maximum benefit from his or her educational experience. It is the student's responsibility to consult with his or her adviser frequently and to get his or her adviser's approval for each semester's selection of courses.

A student may request a change of adviser at the Advising Office during the times posted each semester in the Schedule of Classes.

Upperclassmen who have questions about the advising program should direct them to the Advising Office.

## READMISSION

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

## COURSE AND CREDIT SYSTEM

The unit of credit is the semester hour. Courses carry 4 credits unless otherwise specified. Normally, the maximum student regis-

## **ADMISSION AND GRADING**

tration is 16 to 18 credits a semester. With his or her adviser's permission, however, a student who has completed 12 or more credits at Oakland may register for as many as 21 credits provided that his or her cumulative grade point average is at least 2.60. All other students may take more than 18 credits only as a result of a successful Petition of Exception.

## **PETITION OF EXCEPTION**

Any student may request a waiver or modification of specific academic requirements. A Petition of Exception should be filed on a form obtained from the Registrar's Office, countersigned by the student's academic adviser, and presented at the Registrar's Office. After making an endorsement, the Registrar will refer the petition to the dean of the appropriate school or college.

## **CHANGE OF COURSES**

To drop a course, a student must have the permission of both the instructor and his or her academic adviser. Denial of permission is subject to review by the dean of the appropriate school or college.

Courses may be dropped at any time up to the end of the ninth week of the semester. The only grade recorded by the Registrar for a course dropped during this period is an "N" grade (No grade). Courses approved for dropping before the close of the second week of classes will not be entered on the student's record.

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

## **MODIFIED MAJOR**

Students taking certain majors may, if they so choose, apply to their major departments for permission to modify the normal requirements for the major in order to suit individual programs. Written permission for specific modifications must be given by the department and filed by the student in the Office of the Registrar.

## **REPEATING COURSES**

With permission of his or her adviser, a student may be allowed to repeat a course. No course may be repeated more than twice. The last grade earned in a course will be used to compute the student's grade point average.

## ADMISSION AND GRADING

### COURSE PROFICIENCY

Any student giving evidence of proficiency in a course in which he or she is not registered may be granted permission to demonstrate this proficiency upon petition to the appropriate department chairman or program director. If the results are satisfactory, he or she may receive exemption from this course but will receive no academic credit or grade for the course. (The failure to grant credit does not apply to courses completed in the Advanced Placement Program of the College Entrance Board.)

In exceptional cases and upon recommendation from the chairman or program director, the dean of the appropriate school or college may award credit, provided that such credit does not exceed 20 per cent of the credits earned for a degree at Oakland. The credit will be entered in the "transfer credit" column on the student's record.

### GRADES AND GRADE POINT SYSTEM

Oakland University uses a numerical grading system in which the scale of grades rises by tenths from 0.0 to 4.3. The grade of 0.0 carried no credit and constitutes a failure. The next four numbers in the scale (0.1, 0.2, 0.3, and 0.4) are not used. The grade of 0.5 is the lowest grade for which credit is assigned; however, grades 0.5 to 1.9 inclusive are in the penalty range in that they fall below the minimum cumulative grade point average of 2.0 required for graduation. Grades from 2.0 to 4.3 inclusive are in the range necessary to meet or exceed the minimum cumulative grade point average of 2.0 required for graduation. Thus, grades in the penalty range of 0.5 to 1.9 must be compensated for by grades in the range of 2.1 to 4.3 to the extent necessary to raise the cumulative grade point average to 2.0 or more.

Oakland University numerical grades may be described as follows:

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

### I—INCOMPLETE

The "I" (Incomplete) grade is a temporary grade that may be

## **ADMISSION AND GRADING**

given only after the thirteenth week in a course in which a student is unable to complete the required work because of severe hardship. An "I" grade does not become official until approved by the Provost.

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

### **N—NO GRADE**

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

### **P—PROGRESS**

The grade of "P" (Progress) is a temporary grade that may be given only in a course that could not be completed in one semester. A department that wishes to assign the grade of "P" must receive approval for such courses from the dean of the appropriate school or college prior to the enrollment of students. Such courses are usually research projects. This grade is given only for work that is satisfactory in every respect; it is work for which students need more than one semester in order to complete research undertaken.

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

### **S—SATISFACTORY**

The grade of "S" (Satisfactory) is given in certain selected courses and is meant to imply 2.0 or better. This grade carries credit toward graduation but is not used in computation of the grade point average.

### **U—UNSATISFACTORY**

The grade of "U" (Unsatisfactory) is given in certain selected courses. This grade does not carry credit toward graduation and is not used in computation of the grade point average.

### GRADE POINT AVERAGE

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

### ACADEMIC RECORD

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

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

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

### ACADEMIC HONORS LIST

In recognition of academic achievement a list of outstanding undergraduate students in three categories is published each semester. These are: University Scholar, recognizing semester grade point averages of 3.9 or higher; Student of Great Distinction, recognizing semester grade point averages between 3.5 and 3.89; and Student of Distinction, recognizing semester grade point averages between 3.0 and 3.49. In order to qualify for the Honors List, a student must have received numerical grades in twelve or more credits of academic work with a grade point average of 3.0 or higher.

### ACADEMIC PROBATION AND DISMISSAL POLICY

A student's academic status may fall into one of three categories: (a) good standing, (b) probation, (c) liable for dismissal. These are defined as follows:

- (a) Good standing — cumulative G.P.A. (grade point average) 2.0 or above.
- (b) Probation — cumulative G.P.A. less than 2.0 but not less than the relevant G.P.A. listed below.

## ADMISSION AND GRADING

(c) Liable for dismissal — cumulative G.P.A. less than the relevant G.P.A. listed below.

Total Credits Attempted (Oakland University and elsewhere)	CUM G.P.A.	Total Credits Attempted (Oakland University and elsewhere)	CUM G.P.A.
4	1.20	44	1.60
8	1.24	48	1.64
12	1.28	52	1.68
16	1.32	56	1.72
20	1.36	60	1.76
24	1.40	64	1.80
28	1.44	68	1.84
32	1.48	72	1.88
36	1.52	76	1.92
40	1.56	80	1.96
		84 or above	2.00

1. The Academic Standing Committee will review the status of all students in categories (b) and (c).
2. The Committee may dismiss students in category (c).
3. The Committee may dismiss students in category (b) who are not making satisfactory progress towards a 2.0 cumulative average. Satisfactory progress is defined as an average semester increase in cumulative G.P.A. of 0.01 for each credit taken. That is to say, for example, an increase of 0.040 for a 4-credit course, or 0.16 for four 4-credit courses.

## SEPARATION FROM THE UNIVERSITY

A student who is separated from the University is no longer officially enrolled and does not have the privileges of a registered student. A student who has been separated from the University may apply for readmission through the Office of the Dean of Students unless he or she has been informed that he or she will not be considered for readmission.

## LEAVE OF ABSENCE

A student may be granted a formal leave of absence for a specified period because of illness or personal problems, or to pur-

## ADMISSION AND GRADING

sue his or her studies at a university in a foreign country. A student who is granted a leave of absence is able to return to the University by simply indicating his or her desire to re-enroll in a letter to the Dean of Students.

### WITHDRAWAL

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

When a student has so recorded official voluntary withdrawal from the University, his or her grades will be determined as follows:

- (a) Before the end of the first two weeks of classes, no grades will be recorded.
- (b) From the third week through the ninth, a grade of "N" will be given.
- (c) After the ninth week, a grade of "N" or 0.0 will be assigned by the instructor in consultation with the Dean of Students.

## **FINANCIAL AID**

### **SCOPE OF THE PROGRAM**

Oakland University offers aid to students who do not have sufficient funds to finance their education. This aid is offered in the form of Student Aid Grants, Educational Opportunity Grants, National Defense Student Loans, College Work-Study Program employment, and Oakland University Student Employment.

### **PROCEDURES FOR APPLICATION**

The University is a member of the College Scholarship Service and requires the parents of all students seeking assistance to file a confidential financial statement with that organization. Submitting this statement is necessary so that the degree of need may be determined. The forms to be used may be obtained from the applicant's high school, from the University, or by writing to the College Scholarship Service, Box 881, Evanston, Illinois 60204.

Since all awards are based on financial need, the stipends vary and may range from an amount equal to full tuition, room, and board, to a minimal amount. In some cases a small honorary stipend is offered in recognition of extraordinary academic preparation for college. Applicants need not apply for a specific scholarship. All students who are Michigan residents and who demonstrate need are eligible for Student Aid Grants.

### **REQUIREMENTS FOR RETAINING AID**

Students are required to make written application for renewal of all financial aid each year and also to prepare a renewal confidential financial statement each year. It is expected that all students receiving financial aid will carry the normal load defined as 16 credits per semester, and that they will maintain a cumulative grade point average of 2.0 or higher. Oakland University Scholarship Aid is offered for a maximum of eight semesters. Any exceptions to these standards must be requested by petition through the Financial Aid Office.

### **FINANCIAL AID FOR FRESHMEN**

In addition to the general financial aid offerings, Oakland University has a competitive scholarship program which is open

to all high school seniors. The competitive examination is held annually during the month of November. It is not necessary for a student to have been admitted to Oakland to participate in the competition. Winners for six premium scholarships are selected by a scholarship committee. Included in this group of scholarships is one General Motors scholarship with a stipend up to \$2,000 per year for four years.

## FINANCIAL AID FOR TRANSFER STUDENTS

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

## SPECIAL AND ENDOWED SCHOLARSHIPS

Funds for the Oakland University Scholarship Program are derived from the general budget and also from a fund-raising group of women in the greater Detroit area. Additional funds for scholarships have been provided in varying amounts by individuals, groups, and corporations.

### ***Mr. and Mrs. Benjamin Anibal Scholarship***

This endowed scholarship is to be awarded to a student in engineering.

### ***Mary Fogarty Anibal Memorial Scholarship***

This fund has been established in memory of the late Mary Fogarty Anibal. Earnings will be used to support an endowed scholarship.

### ***Alvin M. Bentley Foundation Scholarship***

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

### ***Campbell-Ewald Scholarship***

This endowment fund was established to support the general scholarship fund.

### ***Consumers Power Scholarship***

An annual one-year scholarship of \$300 is awarded to a freshman

## FINANCIAL AID

student coming from an area served by Consumers Power Company.

### ***The Harlow H. Curtice Memorial Scholarship***

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

### ***George H. Gardner Scholarship Fund***

This fund will provide a scholarship award of approximately \$750 for a student from the local area.

### ***General Motors Scholarship***

One award is made each year to an entering student under the nationwide scholarship program of the General Motors Corporation. The award is worth from \$200 to \$2,000 a year, depending on need.

### ***The Mrs. C. Allen Harlan Scholarship***

An endowed fund offers an annual award to an entering freshman.

### ***The Ormond E. Hunt Memorial Fund***

A fund established in memory of the late Ormond E. Hunt supports an endowed scholarship for a student in engineering.

### ***E. F. Johnson Memorial Scholarships***

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

### ***Isaac Jones Scholarship Fund***

This fund was established in memory of Isaac Jones, the first black graduate of the University. The Isaac Jones Scholarship will be awarded annually to a promising black student.

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

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

### ***John A. MacDonald Scholarship Fund***

One award is to be offered to a student of government.

### ***Mildred Byars Matthews Memorial Scholarship in Art History***

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

### ***Roy G. Michell Foundation Scholarships***

Two \$500 scholarships are given each year for students in engineering.

**Pontiac Central High School Scholarship**

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

**Village Woman's Club of Birmingham Scholarship**

An annual award is made to a woman student from Oakland County.

**A. Glen Wilson Endowment Fund**

This endowment fund was established to yield earnings to benefit the general scholarship fund.

**Alfred G. Wilson Honor Scholarship**

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

**Matilda R. Wilson Honor Scholarship**

Established by the Friends of Oakland University, this award is worth up to \$1,000. The award is made each year to a first-year woman student who may retain the scholarship for four years if her scholastic record is maintained and if financial need exists.

**Thomas E. Wilson Scholarship**

This endowment fund was established to support the general scholarship fund.

## LOANS

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

Short-term loan assistance is provided from the following funds:

- Century Brick Loan Fund
- David R. Robson Memorial Loan Fund
- Pontiac Kiwanis Club Loan Fund
- C. Allen Harlan Loan Fund
- H. H. Corson Loan Fund
- Joan Selby Memorial Loan Fund
- Henry Tiedeman Loan Fund
- Greater Pontiac Centennial Student Loan Fund

## **FINANCIAL AID**

Li Russ Club Student Loan Fund  
Walter K. Willman Loan Fund  
W. Everett Grinnell Loan Fund  
Oakland County Engineering Society Loan Fund  
Student Activities Coordinating Council Loan Fund  
Woman's Literary Club of Pontiac Loan Fund  
John A. MacDonald Loan Fund  
Lathrup Village Women's Club Fund  
Piety Hill Chapter of the Daughters of the American Revolution  
of Birmingham Loan Fund  
Paul Solonika Loan Fund  
Wm. Spickler Memorial Loan Fund  
George Higgins Loan Fund  
James Mangrum Loan Fund  
Michael Werenski Memorial Loan Fund

## **PART-TIME EMPLOYMENT**

Although demand almost always exceeds supply, on-campus jobs of varying kinds and durations have been provided for over 1,500 students at some time during each school year. Many of these jobs have been incidental to special occasions or projects. Students who wish employment should register with the Financial Aid Office. Most students who have part-time employment work between 10 and 20 hours per week.

A student who works 2 hours a day or 10 hours a week may earn up to \$250 per semester.

# TUITION AND FEES

## GENERAL POLICY

The Board of Trustees of Oakland University reserves the right to change any and all rates of charge at such times as conditions or circumstances may make change necessary. All charges are assessed and payable in U.S. dollars. Checks and money orders should be made payable to **Oakland University**. To cover the cost of required expenses at registration students are urged to use checks or money orders rather than cash. If those checks or money orders are in excess of the required payments, the balance will be paid to the student. Course fees, tuition, housing fees, and incidental fees quoted below are applicable to undergraduates and graduates in degree programs. For charges applicable to students in the School of Performing Arts, see the prospectus of the Academy of Dramatic Art and the Summer School Bulletin. For charges applicable to students in the Division of Continuing Education, see the catalog of the Division.

## COURSE FEES AND TUITION CHARGES

Tuition for both undergraduates and graduates is assessed each semester on the basis of the credit value of the courses carried, as follows:

Credits	Michigan Residents		Out-of-State Residents	
	Per Credit	Total	Per Credit	Total
21*	\$19.50	\$409.50	\$46.50	\$976.50
20*	19.50	390.00	46.50	930.00
19*	19.50	370.50	46.50	883.50
18*	19.50	351.00	46.50	837.00
17*	19.50	331.50	46.50	790.50
16*	19.50	312.00	46.50	744.00
15*	20.50	307.50	48.50	727.50
14*	21.50	301.00	50.50	707.00
13*	22.50	292.50	52.50	682.50
12*	23.50	282.00	54.50	654.00
11*	24.50	269.50	56.50	621.50
10*	25.50	255.00	58.50	585.00

\*Undergraduates who register for 10 or more credits are charged an additional \$13.50 (\$7.50 health service fee, \$5 activity fee, and \$1 Wilson Memorial Library fee). Graduates who register for 10 or more credits are charged an additional \$7.50 health service fee.

## TUITION AND FEES

9	26.50	238.50	60.50	544.50
8	27.50	220.00	62.50	500.00
7	28.50	199.50	64.50	451.50
6	29.50	177.00	66.50	399.00
5	30.50	152.50	68.50	342.50
4	31.50	126.00	70.50	282.00
3	32.50	97.50	72.50	217.50
2	33.50	67.00	74.50	149.00
1	34.50	34.50	76.50	76.50

**Course fees and tuition charges must be paid in full at the time of registration.** The times of payment of other fees and deposits are noted below.

## COURSE FEE DEPOSIT

Within three weeks after notification of admission, a deposit of \$50 must be paid which will be applied to tuition. One-half of this deposit is refundable if a student notifies the University before April 1 that he does not intend to enroll. No refunds will be made after that date.

## OTHER FEES

### PROCESSING FEE

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

### LATE REGISTRATION FEE

Students registering or paying fees after the regular registration date are required to pay an additional, non-refundable fee of \$1 per credit hour for the first day and \$2 per credit hour on subsequent days.

### ORIENTATION FEE

A fee of \$35 is charged to all freshman students to cover the cost of the three-day freshman orientation held in the summer. A fee of \$10 is charged to transfer students for a one-day pre-school orientation for transfers.

### PARKING FEE

Parking automobiles on campus is regulated by the University's

## TUITION AND FEES

Department of Public Safety. A yearly parking fee of \$16 is payable at the time of registration.

### ROOM AND BOARD FEES

The residence halls are financially self-supporting. Room and board fees reflect actual cost of operation and are established by the University's Board of Trustees. The 1969-70 rate was \$499.00 per semester. The total of \$499.00 must be paid at registration unless a student chooses to pay by installments, in which case the first payment due at registration is \$200; the second payment of \$150 is due the first day of the month following registration; and the final payment of \$149 is due the first day of the second month following registration.

### HOUSING DEPOSIT

Requests for housing reservations should be addressed to the Admissions Office and must be accompanied by a \$25 deposit. For the Fall Semester, this deposit is refundable up to July 1, if the University is notified prior to that date that the student does not intend to take up residence. This deposit is held on account as long as the student resides in University housing. It does not apply toward the housing fee. For further information on refund policies see p. 275.

### REFUNDS OF COURSE FEES, TUITION, AND HOUSING FEES

A student who withdraws voluntarily before the eighth week of the semester will receive a refund of one-half of his course fees. The student must present to the Registrar's Office an official withdrawal slip, his fee receipt, and his identification card. No refund will be given after this time. A student dropping a course (before the eighth week) which puts him in a lower fee category will receive a refund of half the difference between the two fee totals. No refund will be given after this time. Housing fees are refunded on a prorated basis.

### OUT-OF-STATE TUITION RULES

1. A resident of Michigan (except for aliens) is defined as a person who has resided in this State for six months immediately preceding his first enrollment.

## TUITION AND FEES

2. No one may gain or lose the status of a resident while a student at the University.
3. The residence of a minor shall be the same as that of his legal guardian except where guardianship has been established in this State for the purpose of evading the fee.
4. Aliens who have secured their Declaration of Intent papers and have otherwise met the residence requirements shall be considered residents.
5. The resident status of any person other than a parent or legal guardian who may furnish funds for payment of University fees shall in no way affect the residence status of the student.

## ESTIMATED EXPENSES

The cost of attending Oakland University is moderate. For a commuter student who is a resident of Michigan, the total cost of tuition, books, and transportation will likely be under \$600 per semester.

The same basic costs for a Michigan student living on campus would approximate \$861 for tuition, books, room and board. For an out-of-state student living on campus the same items would cost about \$1,293 per semester.

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

	Michigan Commuter	Michigan Resident	Out-of-State Resident
Tuition and Course Fees (16 credits)	\$312.00	\$312.00	\$744.00
Books and Supplies	50.00	50.00	50.00
Room and Board		499.00	499.00
Local Transportation	200.00		
<b>TOTAL</b>	<b>\$562.00</b>	<b>\$861.00</b>	<b>\$1,293.00</b>

## RESIDENCE HALLS: FACILITIES AND COSTS

The University provides on-campus residence halls planned and administered to relate to and enhance the students' academic experiences. A communal living experience with one's peers has been likened to a "laboratory for living" and has inherent value in the personal growth of most students. In accordance with a belief in this principle the University provides for on-campus residence and dining accommodations. All students are encouraged to live on campus to take maximum advantage of the activities and resources of the University community.

Head Residents and Resident Assistants live in each hall and serve as advisers to individuals and student groups in their adjustment to group living and to the total University environment. Each Head Resident is responsible for the coordination of his hall's program and the work of his Resident Assistants. He is usually a member of the University faculty or a student personnel professional. Resident Assistants are student staff members of upper-class standing who have demonstrated success and leadership in University life.

### RESIDENCE FACILITIES

The University maintains seven residence halls which offer variety in staffing, accommodations, and size. The halls, all built in the last eight years, accommodate about one-third of the student population. They are attractively grouped on spacious wooded grounds overlooking a small lake and are all within convenient walking distance of classroom buildings, the Kresge Library, the Oakland Center, and the Sports and Recreation Building. Anibal House, Fitzgerald House, and Pryale House are L-shaped buildings with twenty-four double rooms in each wing; the wings are joined by a student lounge and an apartment for the Head Residents. Hill House and Van Wagoner Hall are six-story units, each containing 100 double rooms, a lobby, lounge, recreation room, and a Head Resident's apartment. Vandenberg Hall, completed in 1966, is a seven-story, twin-tower structure. It contains 285 double rooms, student lounges, multiple-use areas, study and seminar rooms, and recreation areas. Students enrolled in Charter and New College live in Vandenberg Hall, and the offices of these colleges are in the same hall. The newest facility, Hamlin Hall,

## **RESIDENCE HALLS**

completed in 1968, houses 676 students. This residence is distinguished by a unique suite plan of accommodation. A nine-story hall, it has a main lounge, a lounge on each floor, and several multipurpose areas. Anibal House and Hill House are women's halls; Fitzgerald House and Van Wagoner Hall are men's units. Pryale House, Vandenberg Hall, and Hamlin Hall are coeducational units in which men and women share academic, social, and recreation facilities.

Facilities which are provided in each hall include telephones in every room, coin operated washers and dryers, lounges with television sets and vending machine service. Mail is picked up and delivered twice daily. Rooms are furnished with study desks and lamps, bookshelves, wastebaskets, bulletin boards, single beds, pillows, dressers, wardrobes, and venetian blinds. Residents provide their own blankets, bedspreads, throw rugs, draperies, etc. Lamps, electric blankets, clocks, radios, television sets, and record players are allowed subject to safety regulations and to the limitations of space. Maintenance service is provided by the University in common areas. Individual residents assume responsibility for keeping their rooms cleaned and in order.

## **FOOD SERVICE**

Food Service at Oakland University comprises two major units coordinated by professionally trained staff concerned with providing nutritionally balanced, tasteful, and attractively served meals. Vandenberg Hall provides cafeteria-style service for resident students and their guests. Special dinners, which feature the cooking of different nationalities, are planned each semester. Arrangements are often made for food service at a variety of student functions. The Oakland Center provides dining facilities for the entire community through a public cafeteria and grill complete with Rathskeller.

## **GENERAL POLICY**

The University requires that all full-time unmarried students (that is, unmarried students registered for 12 or more credits) who are under the age of twenty-one and who do not commute from the residence of their parents or legal guardian must live in University housing. However, seniors under twenty-one years of age and students who will attain the age of twenty-one during the Fall or Winter Semester may live in housing off campus with parental consent. Students must register the address of their actual

## RESIDENCE HALLS

residence with the Office of the Registrar and notify this Office of any change of residence which takes place during the school year.

## ROOM AND BOARD FEES AND CONTRACTS

The residence halls are financially self-supported. Room and board fees reflect the actual cost of operation and are established by the University's Board of Trustees. The 1969-70 rate was \$499.00 per semester. Students should anticipate some increase in rates for the 1970-71 school year. If a student signs a housing contract prior to or during the Fall Semester, that contract **is binding for both the Fall and Winter Semesters**. If the contract is signed during the Winter Semester or Spring or Summer Session, it is binding for a single semester or session only. Room and board fees are payable on or before the registration date of each semester or in three payments, the first due at registration and the second and third on the first day of each of the next two months. If a student withdraws from the University, housing fees are refunded on a prorated basis.

## APPLICATION FOR RESIDENCE

New students should request a housing reservation through the Admissions Office. A housing deposit of \$25 must accompany this request. This deposit serves as a breakage or damage fee, and it is refunded when students properly check out of University housing, provided no deductions are necessary. Should an applicant for student housing find it impossible to honor an advance registration, the Director of Admissions should be notified of this change in plans prior to July 1 for the Fall Semester and one month prior to registration for the Winter Semester and Spring and Summer Sessions. Any requests for refunds of deposits after these dates will not be granted, nor will reservation deposits made after the required dates be subject to refund if a student does not register and take up residence.

Upon a student's acceptance at Oakland, his reservation will be processed by the Residence Halls Assignment Office. Notification of assignment will be given approximately four weeks before the beginning of each semester. Returning students may renew housing contracts through the Residence Halls Assignment Office, 159 Vandenberg Hall.

## **RESIDENCE HALLS**

### **CHECK-IN**

Returning students may occupy their rooms beginning with the day preceding registration for each semester and session; new students beginning with the day preceding freshman orientation and New Student Week activities. Rooms and board are not provided during official recesses as listed in the University calendar or between semesters.

### **OFF-CAMPUS HOUSING**

The University does not maintain listings of off-campus housing. If a problem arises concerning off-campus housing which requires University assistance, contact the Director of Residence Halls, 125 Vandenberg Hall.

# STUDENT SERVICES

When a student arrives at the Oakland University campus, he or she finds that many persons are interested in helping him or her to enter effectively into college life. Some of the various student services and their operations are outlined in the sections following.

## THE OFFICE OF STUDENT AFFAIRS

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

Because the services and agencies of the Office of Student Affairs relate to many areas and aspects of student life, reference to them is spread over many sections of this catalog. Specifically, for information on academic advising, see pp. 256-57; for information on academic standing, withdrawal, and readmission policies, see pp. 257-63; for information on student housing, see pp. 273-76; for information on financial aid, see pp. 264-68; for information on placement, see p. 279; for information on student health, see p. 278; for information on physical education, see pp. 282-83; for information on the various facilities and activities in the Oakland Center, see pp. 283-84.

## READING CENTER

The University Reading Center is available for students who wish to improve their reading and study skills. While many students who have difficulties in meeting their reading and study

## **STUDENT SERVICES**

obligations can benefit from the help offered by the Center, others whose skills are already well developed, but who wish to improve them further, can benefit at least as much. A trained staff and special facilities are available in the Reading Center. Students may arrange appointments either directly or through referral by their adviser, the Office of the Dean of Students, or the Office of Psychological Services.

## **WRITING CENTER**

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

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

## **HEALTH CENTER AND STUDENT INSURANCE**

The Health Center, located in a building north of Wilson Hall, provides limited medical treatment for full-time students. The twenty-two-bed infirmary will be open twenty-four hours a day, seven days a week, except for certain stated times. Clinic hours and other details concerning the facilities of the Health Center are explained in a special brochure available to all students.

The University encourages each student to have adequate medical coverage either through a family plan or through the student insurance plan. Information concerning student insurance is mailed to all students in August. Foreign students must have proof of insurance as well as signed Authorization for Medical Treatment forms on file in the Health Center.

## **PSYCHOLOGICAL SERVICES**

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

## **CONTINUUM CHILD CARE CENTER**

While attending classes or participating in other campus activities, students who have pre-school children may leave them for a small fee at the Child Care Center. Complete information may be obtained from the Continuum Center. (See p. 250.)

## **PLACEMENT OFFICE**

The Placement Office provides counseling assistance to graduating seniors interested in career-oriented employment in industry, business, government service, teaching, and other professional fields. It also provides seniors with an opportunity to have interviews with representatives of many companies, government agencies, and school systems who regularly recruit on campus.

Occupational guidance and counseling is also available through this Office to all undergraduate students who need assistance in making career decisions and who want information regarding options available to them in various fields and professions. A very complete placement library containing descriptive material on career opportunities and the requirements for specific occupations is maintained for students' use.

Other services performed by this Office include alumni placement and assistance in securing summer or part-time off-campus employment.

## **VETERANS' BENEFITS**

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

## **SELECTIVE SERVICE**

Questions regarding Selective Service should be directed to the Office of the Registrar.

## STUDENT LIFE

Since intellectual and personal development derives from the student's cultural, social, and recreational activities as well as from his academic work, Oakland University seeks to provide the opportunities and the climate that will foster this development. Students are encouraged to participate in some phase of the University's comprehensive program of sports and recreational activities, but there is no required physical education. Similarly, the pattern of available cocurricular experiences and activities in publications, discussion groups, student government, music, dramatics, and cultural offerings is intended to enhance the student's abilities to think, speak, write, organize, judge, and enjoy. Individual initiative is most important. Though help from faculty and staff is always available, students are responsibly and creatively involved in shaping and directing meaningful campus activity.

## STUDENT GOVERNMENT

Student interests in the whole University community are represented through the Student Activities Board, the Commuter Council, the Inter-Hall Council and through student membership on significant all-University committees, the College Assemblies, and the University Senate.

The Student Activities Board is elected and assumes the responsibility for coordinating campus activities, for allocating funds accruing from the student activities fee, and for making and implementing plans for campus-wide activities. The Board represents the Oakland University student body on all issues pertaining to student activities. The Commuter Council is an elected representative body whose primary function is to provide means of involving commuter students in extracurricular campus programs and in the decision-making process. The Inter-Hall Council consists of elected representatives of the various residence halls. The Council gives resident students a voice in the administration of the halls and in general University matters; it also directs the programming of significant inter-hall activities.

## CLUBS AND ORGANIZATIONS

Student activities at Oakland University are diverse and stimulating. The Student Activities Board sponsors or coordinates film series, concert series, lectures, and such major events as the annual

Snow Carnival, the Chancellor's Ball, and the Fine Arts Festival. Students have formed a variety of academic, religious, performing arts, political interest, and service organizations. These clubs and organizations all play an important role in campus life and serve to supplement the University's other social and cultural programs and enterprises. Participation in all clubs and organizations is open to all Oakland University students, both resident and commuter.

## DRAMATICS, DANCE, AND MUSIC

The annual Fine Arts Festival is the cultural high point of the student year at Oakland University. Through the extensive efforts of students and faculty, programs of drama, dance, and music and shows of visual arts are presented. The best contributions from within the University community and from the outside are assembled for a week of superb entertainment and education.

The Student Enterprise Theatre (S.E.T.) presents one play each semester. Recent productions include Kopit, *Oh Dad, Poor Dad . . .*, Peter Weiss, *Marat/Sade*, *Stop the World I Want to Get Off*, and *J.B.* With the help of its professional adviser, S.E.T. enables students to learn acting, directing, production, set designing and construction, lighting, and costuming. Productions are given in the Barn Theatre, a unique theatre designed and constructed by students and located on the Oakland University campus.

The Student Enterprise Theatre also sponsors a dance workshop which is run on a ten-week master class basis and is instructed by a professional dance master. Information pertaining to enrollment can be attained by calling the Barn Theatre.

Oakland students may participate in various music groups. The largest of these groups is the University Chorus which consists of 150 voices and has performed major choral works both on and off the campus with groups such as the Minneapolis, Detroit, Pontiac, and Saginaw symphony orchestras. Among works recently performed are Handel's *Messiah*, Brahms' *Song of Fate*, Stravinsky's *Symphony of Psalms*, and Vivaldi's *Gloria*.

## STUDENT VOLUNTEER PROJECTS

Through Pontiac Tutorial (P.O.E.A.T.), Project Look Ahead, hospital volunteer work, and a variety of other projects under way or in the planning stages, students have meaningful opportunities to demonstrate their individual concern for their fellow man. Students

## STUDENT LIFE

have found that benefits realized from volunteer involvement more than adequately compensate for time spent.

## STUDENT PUBLICATIONS

Students may gain experience in creative writing, editing, and publishing through student publications. The **Oakland Observer**, the **Ascendant**, and the **Oakland Review** are currently being published regularly. The **Observer** is published in newspaper form once each week during the regular academic year. The **Ascendant** is the University yearbook. The **Oakland Review** publishes analytical research and critical articles written by Oakland University undergraduates. Students are invited to submit their writings, and faculty members are encouraged to recommend students' work for consideration by the **Oakland Review** editorial board. These publications are written, edited, and published by students under the general guidance of appointed faculty and staff advisers. **Focus Oakland**, a second student newspaper, began publication during the current year.

## THE PHYSICAL EDUCATION PROGRAM

The Sports and Recreation Building provides a range of facilities for recreation; activities in seven different sports can be carried on simultaneously. The building houses a collegiate-sized swimming pool with diving area; courts for tennis, handball, badminton, squash, and basketball; equipment for fencing, gymnastics, modern dance, weight lifting, and wrestling. There are also outdoor courts, playing fields, and a ski slope with tow.

Oakland University's voluntary physical education program encompasses instruction in sports; spontaneous and planned recreation; sports clubs; competitive intramural and extramural sports; and competitive intercollegiate sports. The program is designed and organized as a service program for all men and women students as well as for the faculty and staff. It is directed to the participating individual, rather than to the spectator. Men and women with mutual interest in certain sports or recreational activities are encouraged to organize and develop clubs for instruction, practice, and competition both on and off campus.

Instruction is offered by the professional staff and spot-instructors in approximately twenty different sports and recreational activities. Aquatics and dance have important places in the program.

## STUDENT LIFE

The facilities, equipment, and supplies are available about fourteen hours a day for spontaneous and planned recreation. Individuals, couples, and coed groups have the use of a variety of sports equipment, record players, table games, and so forth in the various rooms of the Sports and Recreation Building or on the adjacent tennis courts and playfields.

The competitive intramural sports program for men and women students and for faculty and staff includes eight to eleven different individual and team sports each term. Participants in the team sports may represent dormitory wings or floors, commuter districts, recognized campus clubs and organizations, or the faculty or staff. Participants in individual sports may also represent the foregoing groups, or they may compete as individuals unattached to any group. Students who participate in the intramural sports program are given further opportunity to compete with students from other colleges and universities during each term.

Students interested in intercollegiate sports competition in certain individual and team sports are encouraged to train for, to practice for, and to compete in regularly scheduled intercollegiate contests in cross country and soccer during the Fall Semester, basketball and swimming during the Winter Semester, and baseball, golf, and tennis during the latter part of the Winter Semester and during the Spring Session.

Oakland University is pleased to compete with MIAA colleges, Adrian, Albion, Alma, Calvin, Hope, Kalamazoo, and Olivet; Aquinas College, Grand Valley State College, Ferris State College, Hillsdale College, Spring Arbor College, Lake Superior State College, Eastern Michigan University, Central Michigan University, Northern Michigan University, Western Michigan University, the University of Detroit, and Wayne State University, in one or more sports. Contests are also scheduled with colleges or universities in states and provinces bordering on Michigan such as Bowling Green University, Ashland College, and Wooster College in Ohio; University of Western Ontario and University of Windsor in Canada; University of Wisconsin-Milwaukee; Taylor University and Notre Dame University in Indiana; North Park College, Loyola University, University of Illinois-Chicago Circle, and Illinois State University at Normal, Illinois. Oakland University is a member of the National Collegiate Athletic Association.

## OAKLAND CENTER

The Oakland Center traditionally has served as the center of

## STUDENT LIFE

social, recreational, and cultural activity for members of the University community and for friends of the University. The facilities in the Oakland Center include the Student Activities Center, the University Book Center and Scholar Shop, the Grill and Rathskeller, a games room, several open lounges, two cafeterias, a faculty-staff dining room, a barbershop, a dry cleaners, and an information desk where miscellaneous items such as candy, magazines, newspapers, and smoking products may be obtained. The new, enlarged Book Center is the campus source for books and general supplies, and special gift items are available at the Scholar Shop. The Grill is a popular spot for short orders and snacks.

The Activities Center serves as a coordinating bureau for extra-curricular programs designed to enrich the cultural-social life on campus. The Activities Director and staff work closely with student organizations in the planning and implementation of their programs. The Activities Center also includes offices for official student groups; an exhibit area; student publications offices; and the master calendar of campus-wide social and cultural events. A ticket desk for a variety of events (theatre, sports, music, etc.) in the greater Detroit metropolitan area is also an integral part of the Activities Center.

## MEADOW BROOK MUSIC FESTIVAL

The Meadow Brook Music Festival, held each summer in the Howard C. Baldwin Pavilion of Oakland University, is now internationally recognized. Under the direction of Sixten Ehrling, the Detroit Symphony Orchestra is annually in residence on campus for eight weeks of concerts. Last year, the Orchestra was joined by soloists Vladimir Ashkenazy, Marilyn Horne, Itzhak Perlman, Elisabeth Schwarzkopf, Van Cliburn, Roger Wagner, conductor, and others. Last year also, for the first time, the New York Philharmonic Orchestra presented a week of concerts. Visiting artists in previous seasons have included Isaac Stern, Claudio Arrau, Jerome Hines, Eugene Istomin, Jan Peerce, Maureen Forrester, Philippe Entremont, Anna Moffo, Leonard Rose, Gregor Piatigorsky, and many others.

Two years ago, for the first time, the Festival was broadened to include the dance, as the American Ballet Theatre, in residence for a week with a company of ninety, gave six performances of classical and contemporary ballets. Last year, the company returned to the Festival for its second engagement.

## MEADOW BROOK THEATRE

The John Fernald Company of the Meadow Brook Theatre is a resident repertory company of distinguished British and American actors under the artistic direction of John Fernald. Mr. Fernald was for ten years Principal of the Royal Academy of Dramatic Art in London. A man of the theatre of internationally recognized distinction, he has directed over three hundred plays in London and on Broadway. At Oakland University Mr. Fernald is Director both of the John Fernald Company and of the Academy of Dramatic Art.

During its highly successful first four seasons, the Meadow Brook Theatre has staged classics of British and American drama — Shakespeare, Wilde, Pinero, Shaw, O'Neill — and plays by a range of European dramatists — Ibsen, Chekhov, Giraudoux, Brecht, Anouilh, Sartre, and Frisch. During the 1969-70 season the Company produced plays by Edward Albee, Peter Shaffer, T. S. Eliot, Shaw, Ibsen, Franz Kafka, Tennessee Williams, Chekhov, and O'Neill.

## ART EXHIBITIONS; THE UNIVERSITY ART GALLERY

The Department of Art is the principal sponsor at Oakland University of exhibitions of painting, sculpture, and graphics. It presents several changing shows annually in the University's Art Gallery in Matilda Wilson Hall, which also houses the beginnings of a significant permanent and extended-loan collection. The latter has been generously provided by private collectors in New York, the Detroit-Birmingham area, and elsewhere. The Detroit Institute of Arts often cooperates with the University Art Gallery in the presentation of special material. Both the changing exhibitions and the permanent collection stress recent twentieth century art and the sculpture of primitive peoples (especially those of Africa, Oceania, and the pre-Columbian Americas). During the last three years, the Gallery has presented, among other major showings, the Richard Brown Baker collection and the collection of Mr. and Mrs. S. Brooks Barron, both in the area of contemporary art, and an exhibition of African art drawn principally from gifts given to Oakland University by Governor G. Mennen Williams, Mr. and Mrs. Ernst Anspach, and Dr. and Mrs. Hilbert DeLawter.

Internationally known art historians and artists appear at Oakland. Michigan's first professionally directed art "happening" was

## **STUDENT LIFE**

arranged on this campus by the Department of Art. The first honorary doctoral degree awarded by Oakland University to a scholar was conferred upon an art historian, Dr. Meyer Schapiro of Columbia University.

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

## **UNIVERSITY SPEAKER SERIES**

Oakland University invites to its campus each year outstanding scholars, authors, leaders in public life, and molders of national opinion, in order that members of the University community may hear, discuss, and evaluate a range of informed points of view on subjects of major significance. Speakers on previous series have included Senator Muskie, Bill Baird, Julian Bond, Sidney Cohen, and David Riesman.

## ADMINISTRATIVE OFFICES

### Academy of Dramatic Art

John B. Fernald	Director
Peter A. Stephens	Production Supervisor

### Academic Advising

Fred W. Smith, A.B., M.A., Ph.D.	Associate Dean of Students, and Associate Dean for Student Affairs in the College of Arts and Sciences
Adrienne Bodie	Foreign Student Adviser and Academic Counselor
Dudley B. Woodard, B.A., M.A., Ph.D.	Dean of Freshmen and Director of Orientation

### Admissions

Glen Brown, B.A., M.A.	Director
Edward J. Bagale, B.A.	Admissions Adviser
Joseph Davis, B.S.	Admissions Adviser
C. Ronald Horvath, B.A., M.A.	Assistant Director
Toby F. Link, B.A., M.A.	Admissions Adviser
Jerry W. Rose, B.A., M.A.	Associate Director

### Alumni Relations

Mary B. Schultz, B.A., M.A.	Director
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### Arts and Sciences

George T. Matthews, A.B., M.A., Ph.D.	Dean
Reuben Torch, B.S., M.S., Ph.D.	Associate Dean

### Book Center

William K. Marshall	Director
David L. Bixby, B.A.	Manager

### Business Office

Robert W. Swanson, B.S.	Director of Business Affairs
Rockne C. Delauney, B.A.	Special Account Supervisor
Raymond T. Harris, B.A., C.P.A.	Budget Director
Richard Jackson, B.A.	Assistant to Controller
Richard Light, M.B.A., C.P.A.	Auditor and Systems Analyst
Ronald M. Maierle, B.S.	Accountant
Robert J. McGarry, B.S.	Controller
Alfred Mercieca, B.S.	Assistant to Contract Administrator
William F. Stroud, B.S.	Cashier and Voucher Auditor
Dicron Tafrahan, B.S.	Grant and Contract Administrator

**Chancellor**

Donald D. O'Dowd, A.B., M.A.,  
Ph.D. Chancellor

Troy F. Crowder, B.A., M.A. Assistant to the Chancellor  
Pauline M. Scott Administrative Secretary  
Herbert N. Stoutenburg, Jr., Assistant Chancellor for  
B.A., M.A., Ed.D. Administration

**Computing and Data Processing Center**

Benjamin F. Cheydleur, B.A. Director  
Raymond J. Geitka, B.S.E.,  
M.S.E. Systems Specialist

Wilbert H. Gierke, B.S. Programmer  
Richard C. Habermas, B.S. Supervisor and Senior Financial  
M.A.T. Systems Analyst  
James W. Janas Program Analyst  
Patricia Johnstone, B.S. Senior Systems Analyst-  
Programmer

James Porritt Operations Manager  
Suzanne M. Price, B.A. Systems Analyst-Programmer  
Robert E. Reitz, B.S. Supervisor and Senior Student  
Records Analyst

Charles W. Thompson, B.A. Senior Systems Analyst and  
Programmer

Edward Van Slambrouck Subject Specialist

**Continuing Education**

Lowell R. Eklund, B.A., M.A.,  
Ph.D. Dean

James E. Boyce, B.I.E., M.S.,  
Ph.D. Director of Courses

William G. Foster, B.A., M.A. Director of Public Relations  
Priscilla Jackson Assistant Dean for Developmental  
Programs

Kenneth A. Meade, B.S., M.S.,  
Sc.D. (Hon.) Assistant Dean for Special  
Programs

Virginia C. Menzies Director of Course Administration

Dorothy C. Owen, B.S. Associate Director of Conferences

Harry Van Hook, A.B., A.M. Director, Management and Business  
Programs

Esmo Woods, B.A., M.A. Assistant Dean for Urban Affairs

**Continuum Center for Women**

Gerald Self, B.A., Ph.D. Director

Penina Frankel, B.A., M.S. Employment Adviser

**School of Economics and Management**

Norton C. Seeber, B.S.,  
B.S.Econ., Ph.D. Dean

**School of Education**

- Laszlo J. Hetenyi, B.A., M.A., Ed.D. Dean  
Roderic E. Righter, A.B., B.S., M.Ed., Ed.D. Associate Dean  
William J. Jorns, B.S., M.A. Educational Counselor

**School of Engineering**

- John E. Gibson, B.S., M.Eng., Ph.D. Dean  
Gervase L. Barnhill, B.S., M.S. Research Administrator  
Howard R. Witt, B.A.Sc., M.S.E., Ph.D. Assistant Dean

**Financial Aid**

- Gladys B. Rapoport, B.S., B.A. Financial Aid Officer  
Patricia Sullivan, B.A., M.A. Staff Assistant in Financial Aid

**Food Service**

- David R. Phillips Manager, Oakland Center Food Service  
Neil Uecke Manager, Vandenberg Food Service  
Barbara A. Willson, B.S. Food Specialist

**Graduate Study**

- G. Philip Johnson, B.A., M.A., Ph.D. Acting Dean  
William H. Jones, B.S., M.A. Assistant Dean

**Grounds**

- Frederick Duranceau Director

**Health Service**

- Arthur R. Young, M.D. University Physician

**Institutional Research**

- David C. Beardslee, B.A., M.A., Ph.D. Director  
Jean E. Dion Research Assistant

**Library**

- W. Royce Butler, B.A., M.L.S. University Librarian  
Louise M. Bugg, A.B., A.M.L.S. Catalog Librarian  
Nancy S. Covert, B.A., M.A.L.S. Assistant to University Librarian for Systems  
Jennie B. Cross, B.A., A.M.L.S. Documents Librarian  
Robert G. Gaylor, B.A., M.L.S. Assistant University Librarian for Public Services  
Eileen E. Hitchingham, B.S., M.S. Science Librarian

Philip Y. Howard, B.A., M.L.S.	Assistant University Librarian for Technical Services
Paul T. Jackson, B.S., A.M.L.S.	Performing Arts Librarian
Jennifer Mark, B.A., M.S.	Catalog Librarian
Falih Mudaris, B.A., M.S., M.A.	Head, Catalog Department
James N. Myers, Jr., B.A., A.M.L.S.	Acting Head, Acquisitions Department
Susan K. Parobek, B.S., M.A.L.S.	Reference Librarian
Richard Pettengill, A.B., M.S.	Head, Serials Department
Edith T. Pollock	Order Section Supervisor
Lois L. Reilly, B.A., B.S., M.A.	Head, Reference Department
Susan M. Rybka, B.A., A.M.L.S.	Acquisitions Librarian
Wilbur J. Stewart, B.S., M.L.S.	Administrative Assistant for Technical Services
Suzanne M. Tipler, B.S.	Catalog Librarian
Elizabeth A. Titus, B.A., M.A.	Reference Librarian

#### **Oakland Center**

Alan R. Scott, A.B., M.B.A.	Director
Ronald J. Ewalt, B.A.	Assistant to the Director

#### **School of Performing Arts**

Wilbur W. Kent, B.M.E., M.M.	Associate Dean
Jerry L. Dahlmann, B.S.	Administrative Director

#### **Personnel**

Lawrence K. Fitzpatrick, B.A., M.A.	Director
Daniel M. Dany, B.A.	Assistant Director
Benjamin F. Moore	Assistant Director for Labor Relations

#### **Physical Education**

Hollie L. Lepley, B.S., M.S.	Director of Physical Education and Athletics
Eugene H. Boldon, B.S., M.S.	Physical Education Assistant and Baseball and Basketball Coach
John E. Scovil, B.S., M.S.	Physical Education Assistant, Golf and Soccer Coach and Assistant Basketball Coach
Corey M. Van Fleet, B.S., M.S.	Physical Education Assistant and Swimming and Tennis Coach
Thomas Vitacco, B.A.	Physical Education Assistant and Tennis Coach

#### **Physical Plant**

George Karas, B.S.	Director
James Thom, B.S.	Director, Plant Operations

Clarence Kremer, B.S.	Construction Engineer
Richard C. Moore	Superintendent
William L. Sharrard, B.S.	Mechanical Engineer
Joseph Webb	Construction Project Coordinator

**Placement**

Dorothy C. Hope	Director
Ronald B. Kevern, B.A., M.A.	Assistant Director

**Professional Performing Arts**

John H. DeCarlo, B.A., J.D.	Assistant Chancellor for Professional Performing Arts
Frank F. Bollinger, B.A.	Director of Public Relations
Donald R. Britton	General Manager
Marion A. Bunt	Assistant to the Director
Jane U. Mosher	Ticket Sales Manager
Bernard L. Toutant	Assistant to the Director

**Provost**

Frederick W. Obear, B.S., Ph.D.	Acting Provost
Robert H. Bunger, B.A.	Assistant to the Provost
James E. Davis, B.S., Ph.D.	Assistant Provost
William F. Sturner, B.S., Ph.D.	Assistant Provost

**Psychological Services**

Kenneth H. Coffman, B.S., M.S., Ph.D.	Director
Betty J. Beardslee, Ph.D.	Clinical Psychologist
L. Jerome Fink, M.D.	Consultant Psychiatrist
Morris Frumin, M.D.	Consultant Psychiatrist
Ralph S. Green, M.D.	Consultant Psychiatrist
F. Edward Rice, Ph.D.	Clinical Psychologist
Andrew T. Yang, Ph.D.	Consultant Psychologist
R. A. Zegers, Ph.D.	Clinical Psychologist

**Public Safety**

Earl N. Gray	Director
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**Purchasing**

David H. Jones, B.A.	Purchasing Agent
Gerald S. Redoutey	Assistant Purchasing Agent

**Registrar**

Thomas H. Atkinson, A.S., B.S., M.A.	Registrar (on leave)
Hilda F. Hicks	Assistant to the Registrar-Recorder
Lowell C. Ruggles, B.S., M.E.	Acting Registrar
Ronald L. Somerville, B.A.	Assistant Registrar

**Research Services**

Lewis N. Pino, A.B., Ph.D.

Director of Research Services and  
Dean of Summer School

**Residence Halls**

William P. Paleen, B.S.

Director

Richard D. Conway, B.Ed.,  
M.A.

Coordinator-Vandenberg Hall

Gail Gilmore, B.S.

Coordinator-Hamlin Hall

Jerold W. Hice, B.S.

Assistant Director-Operations

Judith E. Keegan, A.B., M.S.

Program Coordinator

**Space Utilization**

Bruce Fiandt, B.S., M.A.

Director

**Special Projects**

Manuel H. Pierson, B.S., M.A.

Associate Dean of Students and

Director of Special Projects

Alva S. Cobb, B.A., M.A.

Coordinator of Project 20

Patricia A. Guthery, B.S.

Coordinator of the Academic  
Support Center

Jesse H. Ingram, B.S., M.A.

Assistant Director of Upward Bound

Richard H. Morgan, B.S., M.A.

Coordinator of Project Pontiac

**Student Affairs**

Thomas B. Dutton, B.A., M.A.,  
Ph.D.

Vice Chancellor for Student Affairs  
and Dean of Students

Edward E. Birch, B.S., M.A.,  
Ph.D.

Assistant to the Vice Chancellor  
and Associate Dean of Students

M. Patricia Houtz, B.S., M.S.,  
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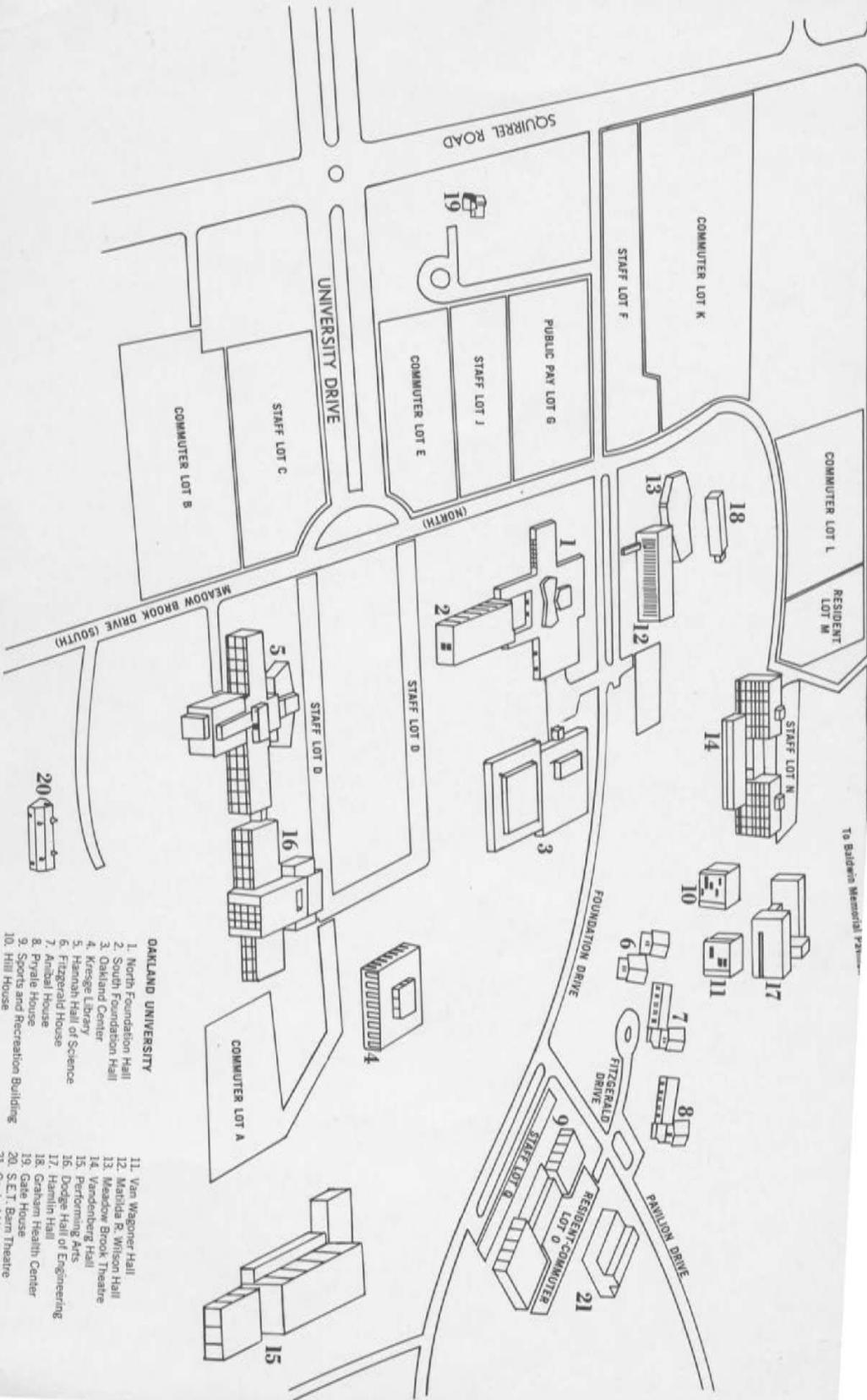
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To Selden Memorial Park

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