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# OAKLAND UNIVERSITY

Undergraduate  
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1987-88

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## Equality of Opportunity

Oakland University, as an equal opportunity and affirmative action institution, is committed to compliance with federal and state laws prohibiting discrimination, including Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973. It is the policy of Oakland University that there shall be no discrimination on the basis of race, sex, color, religion, national origin or ancestry, age, marital status, handicap, veteran status or other prohibited factors in employment, admissions, educational programs or activities. Inquiries or complaints should be addressed to:

Director

Office of Equal Opportunity

148 North Foundation Hall

Oakland University

Rochester, MI 48309-4401

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## Academic Calendar

### Fall 1987

Registration	Tue, Wed, Thu	Aug 25, 26, 27
Classes begin	7:30 a.m., Wed	Sep 2
Labor Day holiday	Mon	Sep 7
Fall commencement	Sun	Sep 20
Thanksgiving recess begins	10 p.m., Wed	Nov 25
Classes resume	7:30 a.m., Mon	Nov 30
Classes end	5:30 p.m., Fri	Dec 11
Exams begin	7 a.m., Sat	Dec 12
Exams end	5:30 p.m., Fri	Dec 18

### Winter 1988

Registration	Mon	Jan 4
Classes begin	7:30 a.m., Tue	Jan 5
Winter recess begins	10 p.m., Sat	Feb 27
Classes resume	7:30 a.m., Mon	Mar 7
Classes end	10 p.m., Mon	Apr 18
Exams begin	7 a.m., Thu	Apr 21
Exams end	10 p.m., Wed	Apr 27

### Spring 1988

Registration	Mon	May 2
Classes begin	6 p.m., Mon	May 2
Memorial Day holiday	Mon	May 30
Spring commencement	Sat	June 4
Classes end	10 p.m., Tue	June 21
Final exams	Wed, Thu	June 22, 23

### Summer 1988

Registration	Tue	June 28
Classes begin	7:30 a.m., Wed	June 29
Independence Day recess	12 Noon, Sat	July 2
Classes resume	7:30 a.m., Tue	July 5
Classes end	10 p.m., Wed	Aug 17
Final exams	Thu, Fri	Aug 18, 19



# INTRODUCTION

Oakland University is a comprehensive, state-assisted institution of approximately 12,700 students that offers a diverse set of academic programs, from baccalaureate to doctoral levels. In all its activities, Oakland University strives to exemplify educational leadership. Anchored by a strong liberal arts program, the university is organized into the College of Arts and Sciences, schools of Business Administration, Engineering and Computer Science, Health Sciences, Human and Educational Services, and Nursing, the Division of Continuing Education and the Office of Graduate Study. All academic programs of the university are accredited by the North Central Association of Colleges and Schools.

Selective in its admission standards and striving to ensure equal opportunity to all who can benefit from its offerings, Oakland University seeks both traditional and non-traditional students. While serving principally Michigan residents, it welcomes qualified applicants from other states and countries. A special effort is made to locate and admit disadvantaged students with strong potential for academic success and to provide the support conducive to the realization of that potential. The Honors College offers an unusually challenging educational experience for highly motivated students.

The university's faculty, which now numbers more than 400, has a distinguished record of research and scholarship. Faculty members have won some of the most prestigious awards made by government agencies and private foundations. External funding support for academic, student, and university projects now totals more than \$5.8 million. Studies in biological and physical sciences and robotics attract national and international attention to Oakland University, and its highly recognized Eye Research Institute is the only eye research center in the United States not associated with a major medical school. This institution takes pride in the many scholarly books and articles written by its faculty and in their contributions to pedagogy and the creative arts. Wherever possible, students are involved in research projects; the results of research and scholarship are integrated into related courses of instruction.

The Kresge and Performing Arts libraries serve as primary scholarly resources for students and faculty. They are supported in this function by a network of computing facilities: two mainframe computers, several minicomputers and hundreds of microcomputers for student and faculty use.

Complementing its academic programs, Oakland University collaborates actively with business and industry to foster economic development in Southeastern Michigan and provides major public service offerings with emphasis on the professional performing arts. Meadow Brook Theatre, a professional theatre, is located in Wilson Hall. Meadow Brook Music Festival is the summer home of the Detroit Symphony Orchestra. Meadow Brook Hall, former home of the university's benefactors, now serves as a conference and cultural center; Meadow Brook Art Gallery houses the university's permanent collection of African art and presents a variety of special exhibits annually.

Oakland University was created in 1957 when the late Alfred G. and Matilda R. Wilson donated their 1,500-acre estate and \$2 million to Michigan State University to begin a new college in Oakland County. Named Michigan State University-Oakland, the new campus enrolled its first students in 1959. In 1963, its name was changed to Oakland University, and in 1970 the Michigan Legislature recognized the maturity and stature of the university by granting it autonomy. The governor appointed Oakland University's first board of trustees in 1970.

Located between the cities of Pontiac and Rochester, Oakland University is easily accessible to millions of Detroit metropolitan area residents. The natural beauty of the campus, much of it still wooded and undeveloped, is enhanced by comprehensive recreational facilities and modern buildings that house the university's many academic and public service programs as well as some 1,700 residential students. Adjacent to the campus is the Oakland Technology Park, a research park where private-sector companies work hand-in-hand with higher education.

## Family Educational Rights and Privacy Act

The federal Family Educational Rights and Privacy Act of 1974 pertains to confidential student educational records. This legislation allows students the right to view upon request their own confidential educational records and restricts the use of these records by others.

Notification of Oakland University's compliance with this legislation may be found in the "Oakland University Policy Statement on the Family Educational Rights and Privacy Act" (available at the Office of the Dean of Students), in the *Schedule of Classes* and in the undergraduate and graduate catalogs. The assistant dean of students is the university compliance officer for the Family Educational Rights and Privacy Act. Any questions, grievances, complaints or other related problems may be addressed to the compliance officer and/or filed with the U.S. Department of Health, Education and Welfare.

Copies of the Family Educational Rights and Privacy Act may be obtained from:

Assistant Dean of Students  
49 Oakland Center  
Oakland University  
Rochester, MI 48309-4401

## Policy on Ethics in the Curriculum

Since the study of moral values is a fundamental part of a liberal education, Oakland University integrates ethical education into its undergraduate programs, with each department or school that offers an undergraduate degree assuming responsibility for considering whether its majors are receiving adequate instruction in the analysis of moral issues relevant to its discipline. When circumstances permit, this instruction should entail at least a substantial component of a course (or the equivalent grouping of components of several courses) meeting one or more of the three criteria below, depending on the nature of the discipline:

1. critical evaluation of the reasoning employed on moral issues, with the aim of finding the most rational resolution of the issues;
2. historical or social-scientific analysis of moral dimensions of society, with the aim of showing how moral values arise and how they influence human behavior;
3. exploration of moral dimensions of the human condition through literature or the arts, with the aim of appreciating the variety and ambiguity of moral commitment in individual cases.

Where applicable, attention should be given within courses to the kinds of ethical decisions graduates are likely to face in the professions they are preparing to enter. Faculty members teaching these courses are expected to make their presentations of material as objective as possible and to represent to their students the general attitudes prevailing within their disciplines.

# GENERAL INFORMATION

## Admission

### Admission to freshman standing

Candidates for admission to undergraduate degree programs should have completed high school-level college preparatory work or otherwise demonstrated sufficient academic preparation to begin college work. Normally, high school courses should include as a minimum four years of English, three years of mathematics, three years of natural sciences, three years of social sciences and two years of a foreign language. Students planning majors in the sciences, mathematics, engineering or management are expected to present at least four years of preparation in math, including algebra, geometry and trigonometry. Consideration for admission is based upon an applicant's total background, including high school academic achievement, recommendations, educational goals and potential for success at Oakland University. Students applying as freshmen must submit scores from the American College Test (ACT).

Applications for undergraduate admission are available from high school counselors or from the Office of Admissions. They should be submitted as early in the senior year as possible.

### Admission of students while still in high school

Specially qualified high school students may be permitted to enroll in classes on a part-time non-matriculated basis. Students who wish to pursue course work at Oakland University that is not available at their high school must present a letter of endorsement signed by their high school principal and counselor. An application for undergraduate admission and a copy of the student's current transcript must accompany the principal's endorsement. Admission as a high school student is valid for one semester or session only. A student wishing to take subsequent courses must receive the principal's endorsement for each term he/she plans to enroll.

### Admission of transfer students

Transfer students may enter Oakland University at four different times: fall semester, winter semester, spring session or summer session. Students are encouraged to submit their applications well before the beginning of the term in which they wish to enroll. Applicants in good academic standing at their previous college or university who have completed 40 or more semester hours of transferable credit with a minimum 2.50 cumulative grade point average may be considered for admission. Selected programs and majors may require a substantially higher grade point average for admission. Applicants who are in good academic standing at their previous college or university who have not completed 40 or more semester credits may be admitted if one or more of the following indicate likely success at Oakland University: high school work, letters of recommendation, test scores or an interview with an Oakland admissions adviser.

When a student enters Oakland University, transfer credits will be granted to courses taken at other regionally accredited post-secondary schools, provided such credits are applicable to the student's initial program at the university and were completed with at least a "C" (or equivalent) grade. Once transfer credits have been granted at Oakland University, a subsequent change of program and re-evaluation of transfer credits may result in the loss of certain transfer credits.

The use of transferred courses to satisfy degree credit and course requirements is determined at the time of initial evaluation of all course work completed prior to entry to Oakland University. In certain cases, only upon initial entry to the university (or upon formal readmission of students whose university education has been interrupted for six years or more) and where an undergraduate transfers to the university from a two-year institution, course work from two-year schools may be accepted to satisfy requirements although additional degree credits beyond the maximum specified below are not granted.

Courses necessary to complete degree requirements are offered by the university, and it is anticipated that students who have been admitted will complete program requirements at Oakland University. Once an undergraduate student has successfully completed 62 semester hours at any accredited institution(s), including Oakland University, no additional credits or courses may be transferred from a two-year school to the university to satisfy any degree requirement. (This includes satisfying a prerequisite for a required course.) In instances where this policy creates a severe hardship to the student due to circumstances beyond his or her control, a student is encouraged to meet with an academic adviser.

Individual academic units may impose particular limitations on transfer equivalency. Students are advised to read appropriate sections of this catalog to learn the policies of schools in which they may be degree candidates.

### **Special note to transfer students from community colleges**

Oakland University's baccalaureate programs are designed to accommodate students from community colleges. Early application is recommended so that candidates can take advantage of the services extended to community college transfer students. Transfer students from community colleges are eligible for the same financial aid programs and other services available to students who enter Oakland University directly from high school.

Oakland University participates in the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) Articulation Agreement. Graduates of participating Michigan public community colleges with Associate of Arts or Associate of Science degrees whose transcripts bear the "MACRAO Agreement Satisfied" stamp are considered to have met most of the university's general education requirements. Prospective transfer students should consult their community college counselor or an Oakland admissions adviser for further information.

### **Admission of students whose formal education has been interrupted**

Admission of individuals whose formal education has been interrupted for three or more years, and who would not normally meet other admission criteria, may be based on one or more of the following: sustained employment record, recommendations from employers, educators and other professionals and standardized test results. An interview with an Oakland University admissions adviser is required for such applicants to be considered for admission.

### **Admission for students who are not American citizens**

A foreign student should write to the director of admissions at least one year before he or she wishes to be admitted. The candidate will be sent instructions and an application form to be completed and returned at once. When the application is approved, the candidate will receive a certificate of admission and form I-20A-B. These are to be used to apply for the appropriate visa. 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's Graham Health Center.

Students who are not citizens or permanent residents of the United States and are transferring from other institutions also must obtain an I-20A-B from Oakland University. Students requesting such transfers should consult with the foreign student adviser at their previous school and with the Department of Special Advising about required transfer and immigration procedures.

### **Admission to guest status**

Students enrolled at accredited Michigan colleges and universities may apply for guest admission by filing the Michigan Uniform Undergraduate Guest Application form, which is available from the registrar's office at their home institution. This form should be submitted to the Office of Admissions well before the beginning of each semester or session the student plans to attend as a guest. Students attending Michigan colleges or universities are not required to submit transcripts.

Students attending accredited colleges and universities outside of Michigan may apply for guest admission by filing Oakland University's guest application form well before the beginning of each semester or session that they plan to attend. These applications may be obtained from the Office of Admissions and must be accompanied by a transcript of grades from the student's home institution.

### **Admission to post-baccalaureate status**

Post-baccalaureate (PB) status indicates that the student holds a bachelor's or higher degree and wishes to enter college for the purpose of pursuing undergraduate classes. Under PB status, admission is as a special non-degree candidate and previous academic work will not be evaluated by Oakland University's registrar. Tuition and fees for PB status will be assessed at undergraduate upper division rates.

Under certain conditions, students with an undergraduate degree may be admitted as post-baccalaureate students in a program leading toward a provisional teaching certificate. Students interested in such status should contact the Education Advising Center in the School of Human and Educational Services.

### **Admission to second degree status**

Second degree status indicates that the student currently holds a bachelor's degree but wishes to earn a second undergraduate degree with a different major. Tuition and fees for second degree status will be assessed at undergraduate upper division rates (see "Additional undergraduate degrees and majors" on page 31).

### **Reapplication and readmission**

Failure to complete a credentials file prior to registration or failure to enroll once admitted invalidates an application for admission. Reactivation of such files must be requested in writing. This notification must be received at least 30 days prior to the first day of registration for the semester immediately following the term of original application. An additional application fee is not required. A new application and fee are required of students who delay reapplication for more than one term.

Readmission applies to students who previously enrolled at Oakland University and whose attendance was interrupted (see "Policies and procedures" on page 39).

### **Advanced placement**

Credit toward graduation is granted to students who present evidence of satisfactory completion in high school of examinations through the Advanced Placement Program of the College Entrance Examination Board. Oakland University grants credit for grades "5" or "4" in advanced placement examinations. If a grade of "3" is achieved, the examination will be subject to review by the appropriate department, which may grant advanced placement with or without credit toward graduation.

### **Credit toward graduation (CLEP)**

Credit toward graduation can be granted to students who demonstrate competence in various areas tested in the College-level Examination Program (CLEP) administered by the College Entrance Examination Board of Princeton, New Jersey. (Students who wish to use CLEP tests as admission credentials should have their scores forwarded to Oakland University's director of admissions.)

CLEP examinations are of two types, general and subject. General examinations are offered in English composition, history, humanities, mathematics, natural sciences and social sciences. Oakland University grants 6 credits for each examination passed with a score of at least 600, no subscore below 55 and an average of subscores of at least 60, provided that the student has

not accumulated 32 credits at the time of the examination and has not previously received college credit in the field of the examination. Credit for CLEP subject examinations is granted according to the following stipulations:

1. Non-transfer students must have accumulated fewer than 64 credits at the time of the examination; transfer students must have earned fewer than 32 Oakland University credits.
2. Examinations must be passed with scores of 60 or better, and each subscore must be at least 60.
3. Students must not have previously taken more advanced work in the field of the examination.
4. Either three or six semester hours of credit may be granted, at the discretion of the academic unit responsible for the subject.

A pamphlet listing the transferability and equivalency of CLEP tests to Oakland University courses and programs is available from the Department of Academic Services and General Studies in 121 North Foundation Hall.

## Financial Aid and Scholarships

Oakland University offers two programs of financial assistance to students: scholarships based on achievement and financial aid based on need. Scholarship opportunities that are based on achievement are not contingent upon financial need, and it is possible for students to qualify for assistance through both programs.

### Financial aid

The purpose of the financial aid program at Oakland University is to help pay the educational costs of qualified students who do not have sufficient funds to attend school. The program is operated under the assumption that the primary responsibility for financing a college education rests with the student and the student's family. Aid offered by the university supplements, but does not replace, funds that are expected to be provided by the student and the family.

In order to assist eligible students in financing their education, the university participates in or administers the following programs: the Pell Grant program, the Supplemental Educational Opportunity Grant program, the National Direct Student Loan program, the College Workstudy program, the Oakland University student employment program, the Oakland University grant program, the Michigan Competitive Scholarship program, the Michigan Educational Opportunity Grant program, the Michigan Adult Part-time Grant program, the Michigan Direct Student Loan Program, the Guaranteed Student Loan program, and the PLUS Loan program.

### Financial aid application procedures

A Financial Aid Form (FAF) should be completed and sent to the College Scholarship Service for processing as soon as possible after February 1. The appropriate FAF item that will result in a Pell Grant Student Aid Report (SAR) being produced must be completed. When processing is completed, the SAR will be mailed directly to the applicant. Upon receipt, the SAR should be immediately provided to the Financial Aid Office. Applicants must also file with the Financial Aid Office an Oakland University Application for Financial Aid and a copy of their family's most recent Federal Income Tax Form 1040. Additional details concerning the financial aid application process are listed on the Oakland University Application for Financial Aid.

### Short-term loans

Short-term no-interest loans of up to \$100 are available for personal and emergency needs, but not for payment of regular university fees for tuition, room and board, or any other anticipated expense. These loans are made possible by gifts to Oakland University from the following individuals and groups:

- Century Brick Loan Fund
- Civitan Loan Fund

H. H. Corson Loan Fund  
Kenneth B. Covert Jr. Memorial Loan Fund  
Pat Dandurand Memorial Loan Fund  
Greater Pontiac Centennial Student Loan Fund  
W. Everett Grinnell Loan Fund  
John Maoshing Han Loan Fund  
C. Allen Harlan Loan Fund  
George N. Higgins Loan Fund  
Insurance Women of Detroit, Inc., Loan Fund  
Lathrup Village Woman's Club Fund  
John A. MacDonald Loan Fund  
James Mangrum Loan Fund  
Kenneth A. Meade Memorial Loan Fund  
Oakland County Engineering Society Loan Fund  
Oakland University Alumni Loan Fund  
Eric Pelzner Memorial Loan Fund  
Piety Hill Chapter of the Daughters of the  
American Revolution of Birmingham Loan Fund  
Mark Platt Memorial Loan Fund  
Pontiac Kiwanis Club Loan Fund  
David R. Robson Memorial Loan Fund  
Li Russ Student Loan Fund  
Joan Selby Memorial Loan Fund  
Paul Solonika Loan Fund  
William Spickler Memorial Loan Fund  
Student Activities Coordinating Council Loan Fund  
Henry Tiedemen Loan Fund  
Warren Tope Memorial Loan Fund  
Michael Werenski Memorial Loan Fund  
Walter K. Willman Loan Fund  
Women's Literary Club of Pontiac Loan Fund

## Scholarships

The wide range of scholarship opportunities at Oakland University indicates the scope of the university's commitment to academic excellence, student leadership and achievement. Scholarships are awarded on the basis of accomplishment and are not contingent upon financial need. Most awards are made in early spring for the next academic year and are only available to those students entering in the fall semester.

Applicants for admission to Oakland University who wish to be considered for a scholarship should file a scholarship application with the Office of Admissions prior to April 1.

Many scholarships are renewable if the recipient meets the criteria outlined at the time the scholarship was originally awarded. Renewal is not automatic, however, as scholarship recipients must apply to the Financial Aid Office for renewal of their awards prior to March 1.

Following is a list of scholarships awarded by Oakland University.

**Alumni Memorial Scholarship** — recognizes high academic achievement. Applicants should have a minimum 3.75 high school grade point average (GPA) and a composite score of 27 or above on the ACT examination. A written essay and personal interview are also required. Scholarships are \$2,000 per academic year and may be renewed to a maximum of eight semesters as long as a 3.25 GPA is maintained.

**American Association of University Women (Farmington Branch) Scholarships** — awarded to mature students with family responsibilities whose undergraduate education has been interrupted.

**Athletic Scholarships** — awarded to men and women athletes with ability in one of the intercollegiate sports offered at Oakland. Scholarship amounts vary and are renewable to a maximum of eight semesters.

**Boys' Club of Royal Oak Scholarship** — awarded to a student recommended by the director of the Boys' Club of Royal Oak. The scholarship is \$800 per academic year and is renewable to a maximum of eight semesters.

**Carmine Rocco Linsalata Memorial Scholarships** — two awards of \$300-\$500 to students who are majoring in or intend to major in a foreign language. One scholarship is granted to an entering student, the other to an Oakland University student with a minimum of 28 credits. Scholarship recipients are selected by the faculty of the Department of Modern Languages and Literatures. The scholarships are a memorial to Carmine Rocco Linsalata, professor of Spanish and Italian at Oakland from 1966 to 1980.

**Community College Scholarships** — recognize academic achievement of students transferring from accredited community colleges or junior colleges in Michigan. Applicants should have a minimum GPA of 3.50 for all college credit earned and at least 55 semester hours of transferable work. Scholarships are \$1,500 per academic year and may be renewed for an additional year (fall and winter semesters). Students must maintain a 3.00 GPA.

**Commuter Involvement Award** — awarded to students who have been involved in campus activities and student organizations. The award recognizes those who have made contributions to improving the quality of campus life. Students may be nominated to receive the award or they may file an application. The awards are given for one academic year. The awards are for \$250 per semester or \$500 per academic year. Recipients must reapply each year.

**Doris J. Dressler Scholarship** — an award for an English major or humanities major (junior year or beyond) demonstrating academic promise and financial need.

**Edith Harris Memorial Scholarship** — awarded to mature students with family responsibilities whose undergraduate education has been interrupted. Applicants must have completed 28 credits in the academic year preceding the award. Recipients must enroll for at least 12 credits each semester in which the award is granted. The scholarship is partial tuition for an academic year.

**Endowed Scholarship** — recognizes outstanding entering fall freshmen who can contribute to the development of an ethnic and racially diversified student body. Resident students may receive \$2,500 the first year, renewable for \$1,000 yearly. Commuter students may receive a \$1,000 one-time award.

**Engineering Scholarships** — awarded to entering engineering students and based on a minimum 3.50 high school GPA and scores on a standardized test. Scholarships are \$600 per academic year and may be renewed to a total of eight semesters as long as the recipient maintains a 3.00 GPA and continues to major in engineering.

**History Department Scholarships** — two annual scholarships awarded to qualified students majoring in history. The George T. Matthews Scholarship in History provides one-half tuition for two semesters. The Oakland University Foundation Matthews Scholarship in History carries a stipend of \$1,250.

**Isaac Jones Memorial Scholarship** — awarded to an academically promising student from Pontiac. The scholarship is \$800 per academic year and may be renewed to a total of eight semesters.

**James Morrison Thompson Chemistry Scholarship** — awarded to eligible chemistry majors for one year. Students selected must have completed their sophomore year with a minimum 3.00 GPA overall and a minimum 3.50 GPA in chemistry and mathematics courses.

**Kurtis Kendall Memorial Scholarship** — recognizes achievement in the sciences for men and women entering Oakland University with goals of research in medical areas. Applicants should have a minimum 3.40 high school GPA. Scholarships are \$1,500 per academic year and may be renewed up to a total of eight semesters as long as the recipient maintains a 3.25 GPA and continues to major in the sciences.

**Mary Fogarty Anibal and Eleanor Anibal Burgum Memorial Scholarship** — recognizes superior academic performance of entering high school students. Applicants must have a



minimum 3.50 high school GPA. Scholarships are \$2,000 per academic year and may be renewed to a total of eight semesters as long as the recipient maintains a cumulative 3.25 GPA and resides in the residence halls.

**Mr. and Mrs. Roger Kyes Scholarship** — awarded for one year to an undergraduate student majoring in English who has demonstrated academic excellence. The recipient is selected by the Department of English's faculty.

**Music Scholarships** — awarded to freshmen or community college transfer students with exceptional music performance ability. Applicants must audition with the Department of Music, Theatre and Dance. Scholarships are \$250 or \$500 per academic year and may be renewed to a total of eight semesters for students who enter as freshmen or four semesters for students who enter as transfers. Additional awards are available to students selected as members of performing ensembles. Renewal is upon recommendation of the Department of Music.

**Oakland County Medical Society Women's Auxiliary Scholarship** — awarded on the basis of merit to three eligible nursing students. Scholarship recipients are selected by the School of Nursing's faculty.

**Oakland University Competitive Scholarships** — awarded to freshmen based on high school grades and scores on the Oakland University Competitive Scholarship Exam. Scholarships are up to \$1,500 per academic year and may be renewed to a total of eight semesters as long as a 3.00 GPA is maintained.

**Oakland University Foundation Scholarships** — awarded each year to two high school students of exceptional ability and achievement to permit their residence at the university while pursuing full-time study. Applicants must have a minimum 3.50 high school GPA. Scholarships are \$2,500 per academic year to a total of eight semesters. Recipients must complete 30 credits each academic year with a cumulative GPA of at least 3.25 to be eligible for renewal.

**Student Life Scholarships** — awarded to students who have shown leadership potential, either in high school or community college. Students must have a minimum 3.00 GPA and be active in cocurricular or extracurricular activities. Scholarships are for partial room and board in the amount of \$1,000 per academic year and may be renewed to a total of eight semesters for students who enter as freshmen or four semesters for students who enter as transfers.

**United Auto Workers Region IB Golf Classic Scholarships** — One scholarship is awarded in the amount of \$1,000 to an eligible student who shows promise of fulfilling a socially worthwhile career and contributing to the advancement of the quality of life for people in our society. A second scholarship is awarded in the amount of \$2,000 to an eligible student who is the son or daughter of a UAW member, or to a UAW member, when this individual shows promise of fulfilling a socially worthwhile career and contributing to the advancement of the quality of life for people in our society. Recipients are chosen by the Scholarship Committee.

**Upperclass Achievement Scholarship** — awarded to continuing Oakland University students based on scholastic performance. Applicants must have a 3.50 GPA at the end of the previous winter semester and have earned at least 32 credits at the university during the previous academic year. Recipients must be enrolled for 16 credits in both the fall and winter semesters. Scholarships are \$250 per academic year.

**William Morris Scholarship** — awarded to upperclass undergraduate students in recognition of academic excellence and effective citizenship. Recipients are recommended by the faculty and selected by the William Morris Scholarship Committee. The scholarship is for one year.

All scholarships listed as renewable are contingent upon recipients advancing a grade level toward graduation each year. Funds for Oakland University's scholarship programs are derived from the general budget, gifts from individuals, groups and corporations, and the fund-raising efforts of the Oakland University Scholarship Committee of Macomb County. The special scholarship funds are:

- Mr. and Mrs. Benjamin Anibal Scholarship Fund
- Marshall Page Atkinson Memorial Scholarship Fund
- Campbell-Ewald Scholarship Fund
- Raymond Cullen Jr. Memorial Scholarship Fund

George H. Gardner Scholarship Fund  
C. Allen Harlan Scholarship Fund  
Herbert M. Heidenreich Scholarship Fund  
Ormond E. Hunt Scholarship Fund  
Harry A. MacDonald Memorial Scholarship Fund  
Mildred Byars Matthews Memorial Scholarship Fund  
Oakland University Women's Club Scholarship Fund  
Village Women's Club of Birmingham Scholarship Fund  
Ruth E. Wagner Scholarship Fund  
A. Glen Wilson Scholarship Fund  
Matilda R. Wilson Memorial Honor Scholarship Fund  
Thomas E. Wilson Scholarship Fund

## Tuition and Fees

The Oakland University Board of Trustees reserves the right to change any and all fees and rates of charge when circumstances make such a change necessary. Tuition and fees quoted in this catalog are from the 1986-87 academic year. The *Schedule of Classes* for each semester or session carries a listing of current charges.

All fees are assessed at registration and are payable in U.S. dollars. Students are urged to use checks or money orders made payable to Oakland University rather than cash for payment. If checks or money orders exceed the required payment, the balance will be returned. Non-payment of fees may result in cancellation of registration. Checks returned by the bank also will place a student in a non-payment status.

Tuition and fees for upper-division undergraduate students also apply for post-baccalaureate students.

### Course fees for on-campus programs

All course fees and special fees must be paid in full before registration will be considered final.

Michigan residents who register as lower-division undergraduates will be assessed \$47.50 per credit. Upper-division undergraduates will be assessed \$54.50 per credit. Graduate students will be assessed \$86 per credit. All students who have not maintained Michigan residence for 12 consecutive months immediately prior to enrollment will be assessed tuition at out-of-state rates: \$135 per credit for lower-division undergraduate students, \$147 per credit for upper-division undergraduate students and \$182 per credit for graduate students.

### Course fees for off-campus extension programs

Students who register for off-campus extension courses are assessed at the following rates: \$54 per credit for lower-division undergraduate students, \$60 per credit for upper-division undergraduate students and \$91 per credit for graduate students.

### General service fees

Undergraduate students who register for 10 or more on-campus credits will be charged an additional \$92.75 (\$40 enrollment fee, \$25 Oakland Center fee, \$9.75 activity fee, \$6 health service fee, \$6 athletic fee and \$6 transportation fee).

Undergraduate students who register for fewer than 10 on-campus credits will be charged an additional \$70.25 (\$40 enrollment fee, \$12.50 Oakland Center fee, \$7.25 activity fee, \$3.50 health service fee, \$4 athletic fee and \$3 transportation fee).

Graduate students who register for 8 or more on-campus credits will be charged an additional \$82.50 (\$40 enrollment fee, \$25 Oakland Center fee, \$2.50 activity fee, \$6 health service fee, \$3 athletic fee and \$6 transportation fee).

Graduate students who register for 4-7 on-campus credits will be charged an additional \$63 (\$40 enrollment fee, \$12.50 Oakland Center fee, \$2 activity fee, \$3.50 health service fee, \$2 athletic fee and \$3 transportation fee).

Graduate students who register for 1-3 on-campus credits will be charged an additional \$61 (\$40 enrollment fee, \$12.50 Oakland Center fee, \$2 activity fee, \$3.50 health service fee and \$3 transportation fee).

Students who register for off-campus courses will be assessed a \$40 non-refundable enrollment fee. Special fees also are charged for applied music instruction and the following special courses:

ED 455,	\$35
ED 597,	\$50
Applied music	
Individual instruction,	\$85/2 credits
Group instruction,	\$25

### Course competency by examination fee

Michigan residents who register as undergraduates for course competency by examination will be assessed at the following rates: \$12 per credit for lower-division undergraduate students; \$14 per credit for upper-division undergraduate students; and \$22 per credit for graduate students. Students who are not Michigan residents will be assessed \$37 per credit for course competency registrations.

### Late registration fee

Students registering or paying initial fees after classes officially begin and up to the end of the late registration period must pay an additional non-refundable late registration fee of \$25. Students who take courses exclusively within a program scheduled to register after the beginning of classes will not be required to pay this fee if they register during the special registration session scheduled for such groups. Tuition checks returned by the bank will be considered as non-payment and may result in cancellation of registration or assessment of the late registration fee.

### Late add fee

Registered students who add classes after the end of the second week of classes (first week for spring and summer sessions) must pay a non-refundable fee of \$10 per class in addition to the cost of the credits added. Classes may not be added after the end of the fourth week of a semester (second week for spring and summer sessions and half-semester courses).

### Late penalty payment

Late payment of outstanding balances due to tuition, fees and/or housing will result in assessment of a late payment fee of \$5 per billing. Balances due paid by checks that are returned by the bank are considered non-payment and also will result in assessment of this fee.

### Application fee

A \$20 fee must accompany all applications for admission to degree programs for a particular term. If an applicant decides to reapply for a later term, a new application and additional fee must be submitted.

### Enrollment deposit

Students admitted for the fall semester must pay a non-refundable \$50 deposit by May 15 (preceding their fall enrollment). Students admitted after May 15 for the next fall semester must pay this deposit within three weeks of admission. This deposit will be applied to the student's account and will offset future fee assessments.

### Graduation service fee

Before or during their last semester or session, degree candidates must file an application-for-degree card with the Office of the Registrar and pay a non-refundable fee of \$20 (see "General undergraduate degree requirements" on page 27) by the deadline established in the *Schedule of Classes* for that semester or session.

### Orientation advising fee

A \$50 orientation advising fee for freshmen (\$25 for transfer students) is charged to cover the expense of orientation and the ongoing advising process. These fees are non-refundable.

### Fees for residential services

The residence halls are financially self-supporting. Housing fees reflect the actual cost of operation and are established by the Oakland University Board of Trustees. These rates are: \$2,755 for the 19-meal plan (\$2,744 for room and board and \$11 hall government fee), \$2,640 for the 14-meal plan (\$2,629 for room and board and \$11 hall government fee) and \$2,560 for the 9-meal plan (\$2,549 for room and board and \$11 hall government fee). Single rooms may be rented, as available, for an additional \$480.

If the student signs a housing contract before or during fall semester, that contract is binding for both fall and winter semesters. If the contract is signed during winter semester, or spring or summer sessions, it is binding for that particular period only. The housing fee may be paid in full at registration or paid in equal installments as specified in the *Schedule of Classes*, with the first payment due at registration.

If a student withdraws from Oakland University, room and board fees are refunded on a pro-rated basis net of an early withdrawal assessment of \$45. Formal notice of withdrawal must be given to the residence halls office.

### Refund of fees

A student who withdraws from Oakland University and drops a course that reduces his or her total credit load is eligible to receive a refund of fees subject to a schedule printed in each *Schedule of Classes* upon application to the appropriate office. Failure to drop or withdraw formally will result in forfeiture of any refund.

Undergraduate students withdrawing from Oakland University should apply to the Office of Student Services. Graduate students withdrawing from Oakland should apply to the Office of Graduate Studies. Reductions in a student's credit load that would result in a refund are processed by the Office of the Registrar. The date that notification is received in the proper office determines the applicable refund. A specific schedule of refunds, with qualifying dates, is published each semester and session in the *Schedule of Classes*.

Information regarding the method of calculating refunds for financial aid recipients can be found in the current "Financial Aid Programs Pamphlet," which is available to financial aid recipients upon request.

Refund checks will be mailed approximately six weeks after an application has been made to the appropriate office.

### Out-of-state tuition regulations

Students enrolling at Oakland University shall be classified at the time of admission as in-state or out-of-state students for purposes of assessing tuition charges. It is the student's responsibility to register and make full payment each semester or session under the proper in-state or out-of-state classification. For the purpose of these regulations, an in-state resident shall be defined as a person who has a Michigan domicile and has resided in Michigan 12 months immediately preceding his or her enrollment.

A student who was originally classified as an out-of-state student may be reclassified as an in-state student only if he or she has become a bona fide domiciliary of Michigan for at least 12 consecutive months, primarily as a permanent resident and not merely as a student. A student shall not be considered domiciled in Michigan unless he or she is in continuous physical residence in the state and intends to make Michigan his or her permanent home — not only while in attendance at the university, but indefinitely thereafter.

An alien who has been lawfully admitted for permanent residence in the United States shall not, by reason of that status alone, be disqualified from classification as a resident. However, an alien who is present in the United States on a temporary or student visa shall not be eligible for classification as a resident.

Any student who has acquired a bona fide domicile in Michigan subsequent to being classified as an out-of-state student may apply for reclassification from the university registrar. The student shall complete an application and list in detail the reason(s) he or she is a bona fide domiciliary of Michigan, primarily as a permanent resident and not merely as a student, and attach documentary data in support thereof. This application must be returned to the Office of the Registrar within 30 days prior to the beginning of classes of the semester or session for which the reclassification shall be effective. The following facts and circumstances, although not necessarily conclusive, have probative value in support of a claim of a residence classification:

1. Continuous presence in Michigan when not enrolled as a student
2. Reliance upon Michigan sources for financial support
3. Domicile in Michigan of family, guardian or other relative or person legally responsible for the student
4. Former domicile in the state and maintenance of significant connections therein while absent
5. Ownership of a home
6. Long-term military commitments in Michigan
7. Acceptance of offer of permanent employment in Michigan
8. Other factors indicating an intent to make Michigan the student's permanent domicile

The following circumstances, standing alone, shall not constitute sufficient evidence of domicile to affect reclassification of a student as a resident:

1. Voting or registration for voting
2. Employment in any position normally filled by a student
3. The lease of living quarters
4. A statement of intention to acquire a domicile in Michigan
5. Domicile in Michigan of student's spouse
6. Michigan automobile registration
7. Other public records, such as birth and marriage records

Any student desiring to challenge his or her classification under the above regulations of the Oakland University Board of Trustees shall have the right to petition an appeal. Petitions of appeal and inquiries regarding out-of-state regulations should be addressed to the Out-of-State Tuition Committee chairperson.

## Student Affairs

The Division of Student Affairs provides a variety of services and programs that complement and enhance students' educational experiences. A brief description of the major areas of the division follows.

### Orientation

All students new to Oakland University are expected to attend an orientation session before their first registration. During orientation, students are advised on course selection, informed about important policies and procedures, given information on services and activities available,

and introduced to the academic environment. At the conclusion of orientation, students select their first-semester courses. Before orientation, students are asked to attend a placement testing session.

Orientations are also held for special groups such as international students and non-traditional students entering college for the first time. In addition, orientation programs are offered for parents of new freshman students.

A non-refundable initial fee of \$50 for freshmen and \$25 for transfer students is charged to all new students, whether or not they attend orientation. This fee covers not only orientation but all of the testing, advising, counseling and other services available to Oakland students through the Department of Academic Services and General Studies.

### **Academic Skills Center**

The Academic Skills Center offers peer tutoring, free of charge, in writing, mathematics and study skills. Students may come to the center on their own initiative or on the recommendation of their professors or advisers. They may request individualized tutoring, which requires an appointment, or they may come at any time for group tutoring.

Peer tutors are on duty in the center from 8 a.m. to 8 p.m. (5 p.m. during certain slow periods), Monday through Thursday. Their hours on Friday are 8 a.m. to noon. The center is located in 201 Wilson Hall.

To supplement individualized and group tutoring, the center provides various computer-assisted instructional materials, as well as videotaped materials.

### **Residence hall facilities**

Oakland University provides on-campus residence halls that relate to and enhance students' academic experiences. A communal living experience with one's peers has been likened to a "laboratory for living" and contributes to the personal growth of students. Students are encouraged to live on campus to take maximum advantage of the activities and resources of the university community.

The university maintains six residence halls that offer great variety in program offerings, accommodations and size. They are attractively grouped on spacious wooded grounds overlooking picturesque Beer Lake and are within convenient walking distance of classroom buildings. Anibal and Fitzgerald houses are L-shaped buildings with 24 rooms in each wing; the wings are joined by a student lounge. Hill and Van Wagoner houses are six-story units that each contain 100 rooms, a lobby, a lounge and a recreation room. Vandenberg Hall is a seven-story, twin-towered structure. It contains 284 rooms, student lounges, multiple-use areas, study and seminar rooms, and recreation areas. Hamlin Hall houses 676 students. A nine-story hall, it has a main lounge, a lounge on each floor, classrooms and several multipurpose areas.

Rooms are furnished with desks and lamps, bookshelves, wastebaskets, bulletin boards, single beds, dressers, closets and Venetian blinds. Residents must provide their own blankets, linens, throw rugs and draperies. Lamps, electric blankets, clocks, radios, television sets and record players are allowed subject to safety regulations, limitations of space and consideration of others. Telephones are provided in each suite or room, and ticket-operated washers and dryers are available. Maintenance service is provided by the university in common areas. Residents assume responsibility for cleaning their own rooms.

Food service for residents is managed by Saga, Inc., a professional catering service. The dining room in Vandenberg Hall offers cafeteria-style dining for residents and their guests. Special dinners, often featuring ethnic foods, are planned regularly.

To be eligible for university housing, a student must be enrolled for at least 8 credits, except with the permission of the director of residence halls. All full-time unmarried students who have earned fewer than 59 credits and who do not commute from a residence occupied solely by a single-member family related to the student at time of registration must live in the residence halls. Requests for exceptions to this policy will be reviewed by an administrative committee.

Exceptions granted to students under age 18 must be accompanied by a written endorsement of exception from the student's parent or legal guardian.

To apply for residence, students should request university housing through the Office of Admissions. Upon a student's acceptance at Oakland University and the submission of a housing contract, his or her reservation will be processed by the Residence Halls Office. Notification of assignment will be given approximately two weeks prior to the beginning of each semester. Returning students may renew their housing contracts through the Residence Halls Office.

Students may occupy their rooms the first day of registration for each semester and session. Room and board is not provided between semesters or during official recesses listed in the university calendar.

### **Dean of students**

The dean of students serves as an advocate for the development of programs and services to meet the developmental needs of students. As such, the dean of students monitors the university environment, assists with student life policy development and provides personal assistance to individual students and groups of students. In addition, the dean of students' office administers the campus academic and non-academic judicial systems, the financial aid office, CIPO, campus vending, and works in cooperation with the student government to initiate a variety of social, recreational and educational programs and activities.

### **Campus Information, Programs and Organizations (CIPO)**

Many students desire to achieve personal goals while pursuing extracurricular educational experiences. Approximately 100 student organizations exist at Oakland University, including academic clubs, religious and political organizations, Greek organizations and a variety of special interest groups. Any student who cannot locate a club that serves his or her particular interest is encouraged to form a new group through Campus Information, Programs and Organizations (CIPO).

Students may participate in the following musical ensembles: Collegium Musicum, Gospel Choir, Afram Jazz Ensemble, Oakland Chorale, Concert Band, Jazz Guitar Ensemble, Meadow Brook Estate, University Drive, Musical Theatre Workshop, University Chorus, University Community Chorus, Pontiac-Oakland Symphony, Vocal Jazz Ensemble and the Keyboard Ensemble. Students can also participate in theatre productions and the Oakland Dance Theatre. These ensembles may be taken for academic credit or as an extracurricular activity.

Student enterprise organizations provide many opportunities for students to investigate their creative and artistic abilities. The lower level of the Barn provides a unique facility for student clubs and organizations. The facility is ideal for coffee houses, talent shows, etc. During the fall and winter semesters, the Barn is open for studying during the day.

University Congress is an elected, campus-wide governmental body that serves students' needs. In addition to its administrative duties, University Congress provides funding for the Student Activities Board, which allocates money to recognized student organization, and for the Student Program Board, a student committee responsible for programming films, lectures, concerts and other recreational activities.

Services for commuting students are coordinated through CIPO. CIPO sponsors a variety of programs and services, including ride pools, lockers, off-campus housing resources and transportation information. Social, educational and recreational activities and programs are also coordinated by the CIPO staff. In addition, CIPO's service window staff provides postage stamps, tickets for campus and community events, photo processing and notary service.

### **Oakland Center**

The Oakland Center is the hub of campus activity. Provided in this facility are food service offerings, the Oakland University Bookcenter, indoor recreational activities, student lounges, meeting rooms and exhibit areas.

## Placement and career services

The Department of Placement and Career Services provides individual career counseling to all Oakland University juniors, seniors, graduate students and alumni. Special seminars are conducted by staff members to assist all students in developing job search skills. A variety of career day programs is offered throughout the academic year.

The department assists students and alumni by identifying career-related employment opportunities. These include permanent, part-time and summer jobs. Identified opportunities are coordinated through the on-campus recruiting function, job vacancy postings, job referral activities and the publication of a bi-weekly job bulletin.

The department maintains an extensive career library for the distribution and display of employers' literature, career guidance materials, job search information and career publications and magazines. Testing applications for the following examinations are also available: Graduate Record Examination, Law School Admission Test, Medical College Admission Test and Graduate Management Admission Test.

In addition to its career guidance services, the department provides opportunities for students to gain professional-level, career-related work experience before they graduate. This is accomplished through the Cooperative Education Program (see description below) and the Oakland County/Oakland University Student Internship Program (see description below). The department also coordinates information about internship/fellowship opportunities generated outside the university.

## Cooperative education

Cooperative education is an academic program that combines work experience with classroom education. Co-op exposes students to real work environments in their chosen fields. This helps them decide, while still in college, whether or not they have made the right career choice. It also allows them to graduate from college with valuable experience in addition to their college education, and introduces them to professionals in their prospective fields. Often students receive job offers from their co-op employers upon graduation. In addition, all co-op jobs are paid positions. This compensation can significantly help in financing a student's education.

There are two forms of co-op. When alternating co-op with full-time study, a student works full time for a four-month period (fall or winter semester or spring and summer sessions) and then returns to the classroom for the next four months while a second student takes over his or her job. Students then alternate periods of work and study. In parallel co-op, a student works part time (about 20 hours a week) and carries about half the normal course load.

Cooperative education programs are available for majors in the College of Arts and Sciences, School of Business Administration and School of Engineering and Computer Science. (For details of each, see the descriptions of programs offered by the college and schools.)

## Oakland University Student Internship Program

Coordinating the employment needs of Oakland County with the interest of the student, the Oakland University Internship Program is designed to be a shared-learning, paid work experience. Full-time Oakland University students (junior, senior or graduate) in good academic standing are eligible and encouraged to participate in this program. The program has proven to be a valuable stepping stone for many college students entering the competitive job market. Internships are available for all academic areas.

Participants must be willing to work 20 hours per week during fall and winter semesters and 32 hours per week in spring and summer sessions. This entails a commitment of six months to one year.

## Special advising

The Department of Special Advising provides a variety of services to students with special needs or entitlements (foreign students and scholars, disabled students and eligible veterans).



The department assists foreign students and scholars with necessary Immigration and Naturalization Service procedures and, in the case of exchange visitors, with U.S. Information Agency procedures. It assists disabled students, including those with temporary disabilities, with registration for classes and individual needs and concerns. In addition, the department certifies eligible veterans for educational benefits.

The department also administers testing services — including the ACT, MCAT, GRE, LSAT, PPST and Miller Analogies Test — and the university's National Student Exchange program.

### **National Student Exchange**

Because Oakland University is a member of the National Student Exchange (NSE), students may choose from more than 50 state-supported schools from Hawaii to Maine for an exchange of up to one academic year. The exchange program not only facilitates procedural matters but allows students to pay in-state tuition rates. Participation offers an opportunity to learn about other parts of the country and other kinds of academic settings, take advantage of cultural and academic programs unique to a certain region or institution, and meet other NSE students.

Institutions Oakland University students have been placed at include the University of Alabama, Bowling Green State University, Utah State University, the University of Montana, the University of Oregon, Oregon State University, Rutgers University, the University of Idaho, the University of Massachusetts-Amherst, the University of Southern Maine, the University of Minnesota, the University of Wyoming, the University of Delaware and others.

To participate, students must be enrolled full time (12 semester credit hours) at Oakland University at the time of application and placement, and have a minimum cumulative grade point average of 2.50. Generally, all credits earned at the host institution will transfer to Oakland. However, students should meet with their academic adviser in advance to determine which courses will satisfy specific Oakland requirements in general education and their major. For further information on NSE, contact the Department of Special Advising.

### **Special programs**

The Department of Special Programs provides academic support for students who need special help for a successful academic experience at Oakland University. This department implements the university's Special Services for Disadvantaged Students (TRIO) Program and is staffed by tutors, professional counselors, peer counselors and a curriculum innovator.

The department staffs and administers the Academic Development Center, which provides, without cost to summer support students, support seminars and tutorial assistance to maximize students' chances for success.

### **Upward Bound**

Upward Bound is a co-educational high school program designed to generate the skills and motivation necessary for success in education beyond high school. It is designed for youth from low-income families (as defined by U.S. Department of Education guidelines) who have academic potential but lack adequate secondary school preparation. The program includes a six-week summer residential component and a twice-monthly academic year component. High school students are eligible to apply if they have completed ninth grade but have not entered twelfth grade, and if their high school enrollment is in Oakland University's target area (Pontiac, Ferndale, Oak Park). A part of the Office of Student Services, Upward Bound is located in 201 Wilson Hall.

### **Academic advising and career counseling**

The academic advising program provides for both faculty advising and for a variety of advising and career counseling services through the Department of Academic Services and General Studies.

Each academic unit has a chief adviser who is responsible for academic advising in his or her area. Students should consult the faculty or staff adviser in the unit of their major and complete with him or her a program plan detailing the course of study to be pursued.

Advising for students who are "undecided" as to a major is provided through the Department of Academic Services and General Studies, which aids such students in course selection and declaration of a major; undecided students are encouraged to complete a special program plan with the aid of an adviser from this department.

The Department of Academic Services and General Studies' Career Resource Center contains many services and resources for freshman and sophomore students who wish to explore careers, including career counseling, computerized career guidance systems (SIGI and DISCOVER II), Michigan occupational information, catalogs of other two- and four-year undergraduate institutions and a variety of written handouts.

Placement tests are required for enrollment in some courses. Taking placement tests assists new students in selecting courses that are neither too easy nor too difficult. Tests are offered in the areas of chemistry, mathematics, modern languages, physics and rhetoric. A biology test is also available for nursing majors only.

Freshman students are encouraged to take a battery of placement tests before orientation to assist in advisement. Transfer students may choose to take placement tests in areas where they have no previous course work.

The Department of Academic Services and General Studies offers evening placement tests weekly throughout the year on an appointment basis. Respective departments also offer testing on an individual basis, usually by appointment. For more information, contact the Department of Academic Services and General Studies.

## Athletics

Intercollegiate sports — Oakland University is a member of the National Collegiate Athletic Association (NCAA) Division II. Oakland male student-athletes participate in intercollegiate baseball, basketball, cross country, golf, soccer, swimming and tennis. Oakland female student-athletes participate in basketball, swimming, tennis and volleyball. The university is also affiliated with the Great Lakes Intercollegiate Athletic Conference (GLIAC). Other GLIAC schools include Ferris State College, Grand Valley State College, Hillsdale College, Lake Superior State College, Michigan Technological University, Northwood Institute, Saginaw Valley State College and Wayne State University.

Oakland's student-athletes have successfully competed in both the GLIAC and the NCAA. In the athletic department's short history, more than 75 student-athletes have been named to All-America teams.

Intramural activities — the Hollie L. Lepley Sports Center, named in honor of Oakland's first director of athletics, is open seven days a week. Thousands of students participate in the university's well-rounded intramural program yearly. Fall intramural activities include men's and women's and coed softball, men's and women's cross country, men's and women's touch football, men's and women's floor hockey, men's and women's racquetball (individual), men's and women's tennis (individual) and women's and coed basketball. The winter program includes men's, women's and coed volleyball, men's and women's indoor soccer, men's and women's swimming, men's basketball and coed floor hockey. Students, faculty and staff participate on committees for organization, implementation and administration of the intramural program.

The Hollie L. Lepley Sports Center has facilities for basketball, combatives, dance, fencing, golf, handball, paddleball, racquetball, squash, swimming, weight training and wrestling. Its outdoor areas include the 18-hole Katke-Cousins Golf Course, a golf practice and instruction area, softball and baseball diamonds, tennis courts, a soft-surface 1/4-mile track, soccer fields, touch football fields and acres of terrain for hiking, cross-country running and cross-country skiing.

## Health services

Oakland University students, faculty, staff and alumni (and their spouses) may receive medical services at the Graham Health Center, Monday through Friday, from 8 a.m. to 5 p.m. Services include physician coverage of most acute and chronic medical problems, laboratory facilities

and an emergency room equipped to handle minor trauma and to give initial treatment to more serious emergencies. The health center staff includes a medical doctor, three registered nurses and a medical technician.

The basic physician's fee is \$7 for currently enrolled students and \$18 for faculty, staff, alumni and spouses. There is no charge to see a nurse. The health center will bill most insurance companies for eligible services. Allergy injections are given while a physician is on the premises (the patient must have a doctor's written instructions and vaccine that may be stored at the health center). A weight-control program and information on nutrition, how to stop smoking, exercise and many other topics are also available.

### Child care

The School of Human and Educational Services operates the Matthew Lowry Early Childhood Center for students, faculty and staff with child care needs. Located at Adams and Butler roads at the southeast corner of the campus, the center houses three programs: preprimary, preschool and toddler.

The preprimary program is for kindergarten-age children who need a full-day program. The toddler program is for children who are walking to 3 years old; the preschool program serves children from 3 to 5 years old. These programs are designed to stimulate the developmental growth of children.

The Early Childhood Center operates weekdays from 7:45 a.m. to 5:30 p.m. Registration for the programs coincides with university registration. Parents are assessed on an hourly rate that varies for students, faculty and staff.

### Psychology Clinic

The Psychology Clinic is staffed with clinical and counseling psychologists who provide specialized counseling, consultation and psychotherapy to Oakland University students. Use of the center is voluntary and is available by appointment at a minimal charge (many insurance policies reimburse the clinic's services).

The clinic also offers marriage counseling, child therapy, family therapy, psychological testing and vocational counseling. The vocational counseling program involves a series of intensive interviews and tests with focus on personal issues in career development. The psychological testing services are aimed at assessing developmental growth as well as the nature of personal problems. Services of the center are also available to the public at a higher fee. Fees are based on family income.

# ACADEMIC POLICIES AND PROCEDURES

## Undergraduate Degree Requirements

Undergraduate degree requirements are of two kinds: general degree requirements determined by the university to be binding on all baccalaureate programs, and specific degree requirements established by the various colleges, schools and other academic units that offer degree-level programs of instruction. Students may choose to meet graduation requirements as presented in the catalog extant at the time of graduation or in any catalog in effect since their matriculation at Oakland University, providing that the catalog is not more than six years old at the time of graduation. They may use one catalog for both general degree requirements (including the general education program) and those of the major or meet general university requirements from one catalog and those of the major, minor and/or concentration from another.

An academic unit may require that students changing major into its program from another major, or from undecided status, must follow major requirements and college or school distribution requirements (if applicable) from a catalog no earlier than the one in effect at the time of admission to the new major. (A change from pre-major to major standing in the same field does not constitute a change of major.) Students who change majors should read the section of the catalog covering the new program and consult an adviser to learn which catalog(s) they may use for requirements for the major. They, like all other Oakland University students, may still follow general education requirements from a second catalog, either earlier or later than the one used for the major.

The catalog chosen for the student's major will also be used to determine degree requirements for any minor or concentration the student may be pursuing unless a written plan of study has been approved by the department or school offering that program. Some academic units require that a student file an approved plan of study for a concentration or minor in order to complete program requirements; those that do so stipulate this requirement in the appropriate section of this catalog. If the academic unit establishes no such requirement, a student is still entitled to negotiate a minor or concentration in writing with the program coordinator. This is particularly encouraged for those students using transfer courses to satisfy some portion of the program. A plan of study may be based on any catalog in effect at time of filing, but not one predating the student's matriculation to Oakland University. Changes to an approved plan require prior authorization from the concentration or minor coordinator.

Students who entered Oakland University before September 1985 should know that the general education requirements in the catalog under which they entered were tied to the major and varied from school to school. They may choose to follow the new university-wide general education program introduced in 1985 or follow the one outlined for the school sponsoring their current major program in any catalog for which they are eligible.

A student may establish credit in a course to meet degree requirements by earning a passing grade in the course, by passing a competency examination or by receiving transfer credit from another institution. In certain circumstances, a requirement may be formally waived through a successful Petition of Exception.

All data in this catalog reflects information as it was available on the publication date. Oakland University reserves the right to revise all announcements contained in this publication and at its discretion to make reasonable changes in requirements to improve or upgrade academic and nonacademic programs.

## Student responsibility

Each student must fulfill all general, procedural and specific requirements and abide by all pertinent academic regulations in order to earn a degree at Oakland University. It is the student's responsibility to learn the requirements, policies and procedures governing the program being followed and to act accordingly.

Students should consult their advisers regularly to verify that all degree requirements are being met in a timely fashion and to file program plans. Each term's *Schedule of Classes* indicates the locations and telephone numbers of the Academic Services and General Studies department as well as school and departmental advising offices.

## University undergraduate degree requirements

Oakland University has established general undergraduate degree requirements applicable to all candidates for all undergraduate degrees. In order to earn a baccalaureate at Oakland University, a student must satisfy the following criteria:

1. **Residence requirement:** A student must successfully complete at least 32 credits at Oakland University. He or she must also take the last 8 (4 for Bachelor of General Studies designation) credits needed to complete the requirements for a baccalaureate at Oakland University.
2. **Grade point average:** A student must have a cumulative grade point average (GPA) of at least 2.00 in courses taken at Oakland University. In certain programs, additional GPA requirements must be met.
3. **Credit rules:** A student must have successfully completed at least 32 credits in courses at the 300 level or above. Once a student has accumulated 62 credits of work from any institution(s), and entered Oakland University, he or she may not return to a two-year institution and transfer additional work from a two-year institution either for credit or to meet any degree requirement. (This includes satisfying a prerequisite for a required course.) For further information, see "Admission of Transfer Students," page 9.
4. **Writing proficiency** — A student must demonstrate proficiency in writing at, or within a reasonable time after, entrance to Oakland University. Entering students transferring 32 or fewer credits must demonstrate writing proficiency before they accumulate 48 credits in order to register or receive credit for upper-level courses (those numbered 300 or above). Entering students transferring 33 or more credits must demonstrate proficiency before they complete 16 credits at Oakland University in order to register for upper-level courses. Proficiency may be demonstrated in several ways:
  - a. By completing RHT 101 with a grade of 2.00 or better.
  - b. By transferring two college-level English composition courses (at least 6 credits). Students who have completed such courses with grades of 2.00 or better may submit their transcripts to the registrar for evaluation. Transfer students who have credit for only one English composition course or for fewer than 6 credit hours must take RHT 101 or the student-initiated proficiency test (see below).
  - c. By petitioning the Proficiency Committee of the Department of Rhetoric, Communications and Journalism with samples of their writing, including three papers that have been completed to meet class requirements at Oakland University. One of these papers must indicate an ability to use some standard system of annotation. In addition to the writing samples, students must include supporting letters from two Oakland University faculty members.
  - d. By demonstrating superior writing skills in a student-initiated proficiency examination administered by the Department of Rhetoric, Communications and Journalism. This examination is offered throughout the academic year; students should contact the department (370-4120) or Department of Academic Services and General Studies (370-3226) for a current testing schedule.

5. General education: The general education program is designed to provide a common and coherent educational experience for all Oakland University undergraduates. It is based on the belief that educated persons should possess not only knowledge in a particular field of specialization but also an understanding of the world around them, an appreciation of the legacy of the past and some vision of the future. Exposure to a variety of disciplines will enable students to acquire a breadth of knowledge, develop analytical skills and examine fundamental questions of human experience.

All students must complete 32 credits in general education, including at least one course (3 or more credits) from the list of approved courses offered in each of the following eight field categories: arts; literature; language; western civilization; international studies; social science; mathematics, logic and computer science; and natural science and technology.

Transfer students may fulfill this requirement with courses from their former institutions that have been approved for this purpose by the University General Education Committee; in such cases, a 3-credit transfer course may serve as the required course in a particular field category, but the student must still present a total of 32 credits and all eight categories must be represented. Students who have earned more than 30 accepted transfer credits at Michigan community colleges may choose to meet the earlier general education requirement as presented in the 1984-85 undergraduate catalog, provided they enrolled in the community colleges before fall 1984 and enroll at Oakland University before fall 1987. Transfer students holding an associate of arts or associate of science degree from a community college participating in the Michigan Association of College Registrars and Admissions Officers (MACRAO) Articulation Agreement will be considered to have fulfilled Oakland University's general education requirement minus one exception: Courses in English composition that have been taken previously will be applied to Oakland University's writing proficiency requirement; therefore, students enrolling under terms of the MACRAO agreement must complete eight additional credits of general education. Students must meet with an academic adviser to select the courses to meet this requirement.

The policy stipulated above is considered a minimum credit requirement that academic units may increase for their own students. Students pursuing degrees in the College of Arts and Sciences should refer to pages 44-45 for additional distribution requirements.

General education requirements: Each candidate for an Oakland University baccalaureate is required to complete satisfactorily at least one approved course from each of the following field categories: Students using this catalog to meet general education requirements may also use any course subsequently approved by the General Education Committee as satisfying requirements in a particular category and published in a later catalog. If a course listed below should be removed from lists of approved courses in later catalogs, it may still be used to meet a general education requirement by students following the 1987-88 catalog.

- a. Arts: Courses in the arts category are designed to provide an understanding of how people express through the arts their experience of the world. The arts are the visual and auditory material of culture. Courses in this field will help students approach, understand and appreciate the aesthetic dimensions of human experience.

AH 100	Introduction to Western Art I
AH 101	Introduction to Western Art II
CIN 150	Introduction to Film
DAN 173	Dance History and Appreciation
MUS 100	Introduction to Music
MUS 250	World Music Survey I
MUS 320	Survey of Music History and Literature
THA 100	Introduction to Theatre
THA 268	Theatre History I
THA 269	Theatre History II

- b. Literature: The study of literature enables the student to move beyond individual experience by participating in the intellectual, emotional and spiritual experiences of others. The study of the ways literary works fuse form and content cultivates sensitivity to language and enhances awareness of our humanity.

ENG 100	Masterpieces of World Literature
ENG 105	Shakespeare
ENG 111	Modern Literature
ENG 224	American Literature
ENG 241	British Literature
ENG 303	Fiction
ENG 306	Drama
ENG 312	Classical Mythology
LIT 100	Introduction to Asian Literature
LIT 181	European Literature I
LIT 182	European Literature II

- c. Language: Language both reflects and shapes human culture. The systematic study of a foreign language or of language systems will help students become aware that people think, behave and perceive reality in ways related to the languages they speak.

ALS 176	The Humanity of Language
CHE 114*	Introduction to Chinese
FRH 114*	Introduction to French
GRM 114*	Introduction to German
HIU 114*	Introduction to Hindi and Urdu
IT 114*	Introduction to Italian
JPN 114*	Introduction to Japanese
LIN 207/ SCN 207	Semantics
RUS 114*	Introduction to Russian
SPN 114*	Introduction to Spanish

\*Students who complete a 4-credit foreign language course beyond the 114 level will receive credit for satisfying the field category in language upon completion of the course.

- d. Western civilization: Courses in this category examine significant political, social, economic and intellectual developments of Western cultures from a historical perspective. Students will develop skills of critical inquiry into historical events and investigate the foundations of Western thought.

HST 101	Introduction to European History Before 1715
HST 102	Introduction to European History Since 1715
HST 114	Introduction to American History: Nation-Building
HST 115	Introduction to American History: Modernization and World Power
HST 210	Science and Technology in Western Culture
PHL 101	Introduction to Philosophy
PHL 103	Introduction to Ethics
PHL 204	History of Western Philosophy: Classical Greek Philosophy
PHL 205	History of Western Philosophy: Hellenistic and Medieval Philosophy
PHL 206	History of Western Philosophy: Early Modern Philosophy
PS 377	Communism

- e. International studies: The examination of a culture other than their own will help students understand and value the traditions and experiences of other people. It also provides them with fresh perspectives on their own assumptions and traditions.

IS 210	Introduction to China
IS 220	Introduction to Japan

- IS 230 Introduction to Africa  
 IS 240 Introduction to India  
 IS 250 Introduction to Latin America  
 IS 260 Introduction to Russia and Eastern Europe  
 IS 270 Introduction to the Middle East
- f. Social science: Courses in this category will introduce students to major concepts in a field of social science and its methods of scientific inquiry. The social sciences examine the influences of social and cultural factors on individual or group behavior and values.
- AN 101 Cultural and Human Evolution  
 AN 102 Man in Culture and Society  
 AN 307 Culture and Society through Film  
 ECN 150 Basic Economics  
 ECN 200 Principles of Macroeconomics  
 ECN 210 Principles of Economics  
 PS 100 Introduction to American Politics  
 PS 115 United States Foreign Policy  
 PS 131 Foreign Political Systems  
 PSY 100 Foundations of Contemporary Psychology  
 PSY 130 Psychology and Society  
 SOC 100 Introduction to Sociology  
 SOC 206 Self and Society
- g. Mathematics, logic and computer science: Courses in this category examine systematic ways of approaching, processing and analyzing data and ideas from different disciplines. While divergent in approach, these courses will help students become more familiar with means of quantification and symbolic systems.
- MTH 121 Linear Programming, Elementary Functions  
 MTH 122 Calculus for the Social Sciences  
 MTH 154 Calculus I  
 MTH 185 Exploration into Undergraduate Topics  
 PHL 102 Introduction to Logic  
 PHL 202 Introduction to Symbolic Logic  
 STA 225 Probability and Statistics
- h. Natural science and technology: Courses in this category will introduce students to major concepts in a field of natural science or modern technology and to the methods of scientific inquiry. Students will also gain understanding of the impact and implications of natural science and technology in the modern world.
- BIO 104 Human Biology  
 BIO 110 Life on Earth  
 BIO 190 Biology  
 BIO 200 General Biology  
 BIO 300 Biology and Society  
 CHM 104 Introduction to Chemical Principles  
 CHM 110 Chemistry in the Modern World  
 CHM 144 General Chemistry  
 (or 164)  
 ENV 308 Introduction to Environmental Studies  
 HS 201 Health in Personal and Occupational Environments — Ideas, Concepts, Issues and Applications
- PHY 101 General Physics I  
 (or 151)  
 PHY 104 Astronomy: The Solar System  
 PHY 105 Astronomy: Stars and Galaxies



PHY 106	Earth Science
PHY 107	Oceans and Atmosphere
PHY 125	The Physics of Music
PHY 127	Human Aspects of Physical Science

6. Procedural requirements:
  - a. Students must be in substantial compliance with all legal curricular requirements.
  - b. Before or during the semester or session in which they expect to complete all academic requirements, degree candidates must file an application-for-degree form at the Cashier's Office with a non-refundable \$20 fee. The filing deadline for each semester or session is indicated in the *Schedule of Classes* for that term. Failure to apply will result in deferred graduation. Application forms are available at the Records Office, 102 O'Dowd Hall.
7. Specific requirements: Students must fulfill all specific undergraduate degree requirements as stipulated by the various colleges, schools or other academic units empowered to present candidates for the undergraduate degree(s) over which they have authority. For further information concerning specific undergraduate degree requirements, consult the following areas of this catalog:
  - a. Bachelor of Arts, Bachelor of Music and Bachelor of Science, College of Arts and Sciences
  - b. Bachelor of Science, School of Business Administration
  - c. Bachelor of Science and Bachelor of Science in Engineering, School of Engineering and Computer Science
  - d. Bachelor of Science, School of Health Sciences
  - e. Bachelor of Science, School of Human and Educational Services
  - f. Bachelor of Science in Nursing, School of Nursing
  - g. Bachelor of General Studies, General Studies

### Additional undergraduate degrees and majors

Under certain conditions, a student may earn either an additional baccalaureate or a single baccalaureate with multiple majors.

1. If a student enrolled at Oakland University but not yet holding any degree from this institution wishes to pursue two or more Oakland University baccalaureates simultaneously, he or she must:
  - a. Meet all specified requirements for each degree program.
  - b. Complete at least 32 credits at Oakland University beyond those required for the degree requiring the most credits. Of these, 16 credits must be at an advanced level (courses at 300 level or above).

These degrees must either have separate designations (for example, Bachelor of Arts and Bachelor of Science) or be earned in separate academic divisions (for example, the College of Arts and Sciences and the School of Engineering and Computer Science).

A student who meets the requirements for more than one major program but who is ineligible to receive separate degrees — either because of the above general restrictions or because of an insufficient number of credits — may receive a single degree with more than one major recorded on his or her transcript.

2. If a student holding a baccalaureate from Oakland University wishes to earn another Oakland University baccalaureate, the second degree must, as with the degrees described above, either have a separate designation or be awarded by a different academic division. The student must then:
  - a. Receive written approval from the college or school concerned (and, where appropriate, from the department) as part of the admission process to the new degree program.
  - b. Meet all specific requirements for the new degree as stipulated by the college, school or other academic unit in which the person is a candidate.

c. Complete at least 32 additional credits at Oakland University.

A student ineligible to complete a second degree may, however, enroll as a post-baccalaureate student and obtain verification from a major department that he or she has met all requirements for an additional major.

3. If a student holding a baccalaureate from another accredited institution of higher education wishes to earn an additional baccalaureate from Oakland University in a different discipline, he or she must:
  - a. Receive written approval from the college or school concerned (and, where appropriate, from the department) as part of the admission process to the new degree program.
  - b. Meet all specific requirements for the new degree as stipulated by the college, school or other academic unit in which the person is a candidate.
  - c. Complete at least 32 additional credits at Oakland University.
4. If a student holding a baccalaureate from Oakland University or from another institution of higher education wishes to earn teacher certification in elementary education, he or she must be admitted to Oakland University with post-baccalaureate status. For a description of the program, see the Department of Curriculum, Instruction and Leadership.

### Course and credit system

The credit-hour value of each course (the number in parentheses following the course title) is specified in semester hours. One semester hour is equivalent to a total of three hours per week including 50 minutes of scheduled instruction and the estimated time that an average student spends in outside preparation each week. Most Oakland University courses are 4 credits. A full academic load is 16 to 18 credits per semester. With his or her adviser's permission, a student who has completed 12 or more credits at Oakland University may register for as many as 21 credits if 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.

### Regulations governing courses

1. A course sequence joined by a hyphen (e.g., FRH 114-115) must be taken in the order indicated. The first course in such a sequence is a prerequisite to that following.
2. Course numbers separated by commas (e.g., HST 114, 115) indicate related courses that may be taken in any order. However, departmental or program requirements may sometimes govern the order.
3. Course numbers 000-049 are designated for skill development courses specially designed to aid incoming students with significant deficiencies in their academic background in preparing for courses numbered 100 and above. Credits earned in these courses may not be used to satisfy minimal graduation requirements in any academic program. These courses are included in the student's grade point average. Course numbers 050-099 are for courses specially designed to enrich academic skills. Not more than 16 credits in such courses and in tutorial work may count toward graduation requirements. Courses numbered 100-299 are introductory undergraduate courses primarily for freshmen and sophomores. Courses numbered 300-499 are designed for juniors and seniors. Courses numbered 500 and above are primarily for graduate students. Qualified undergraduates may enroll in a class numbered 500-599 provided they have obtained written permission to do so from the department or school offering the class. Only graduate students are eligible for courses numbered 600 and above.
4. The university reserves the right to cancel any course in which there is insufficient registration.
5. It is the student's responsibility to complete all prerequisites before registering for a course with such requirements. Departments may waive prerequisites in accordance with university policy.

6. Some courses are cross-listed between departments. In such cases, the course description is listed only in one department. The listing in the other department notes that the course is identical with the course in the primary department. When registering, students should select the listing under which they wish to receive credit.

### Course competency

Students may receive credit toward graduation designated as competency credit (graded S/U) on their transcripts for Oakland University courses, subject to the following provisions:

1. That they register for the course at registration with written permission of the departmental chairperson, dean or program director of the academic unit responsible for the course.
2. That they pass an appropriate competency examination not more than six weeks after the term begins. Competency credit will not be permitted for a course when a student has received credit for more advanced courses in the same area. The repeat course rule applies to the repeating of competency examinations.

A student may apply up to 60 credits based on non-classroom experience (course competency, Advanced Placement and/or CLEP credits) toward a degree program.

### Petition of exception

Any student may request a waiver or modification of specific academic requirements. Students may obtain a Petition of Exception form from the office of the dean of the student's college or school. The completed form should be signed by a faculty adviser in the student's major department or school. Petitions for modification of the normal requirements of a major in order to suit individual programs should be directed to the chairperson of the major department or school.

Petitions for modification of general undergraduate degree requirements should be returned to the office of the dean of the student's college or school for referral to the appropriate committee on instruction. The student, the registrar and the student's academic adviser or major department will receive a copy of the petition containing the action taken. Petitions of Exception relating to graduation requirements must be filed no later than the second week of the semester or session of intended graduation.

### Change of courses

If a student decides not to complete a course, the course may be dropped through the ninth week in 14-week courses and the fifth week in 7-week courses. Courses dropped for which either fee cancellation or refund of fees is claimed must be processed through a drop-and-add form obtained from and submitted to the Registration Office, 100 O'Dowd Hall (see also "Refund of fees" on page 18).

Students previously registered for the term and wishing to add a course should do so as early as possible in the semester or session. Courses may not be added following the fourth week of instruction (second week in spring and summer sessions and for 2-credit, half-semester courses).

### Grading system

1. The basic undergraduate grading system at Oakland University is a 32-point system of numerical grades, with passing grades ranging from 1.00 through 4.00, by tenths, and a no-credit grade of 0.00. Non-numerical grades are W, I, P, S, U, R and Z.
2. The first two weeks of a semester (one week in spring and summer sessions) are a no-record period for dropping and adding full-semester courses. The no-record period for 2-credit, half-semester courses is the first week of instruction.
3. The meanings of non-numeric grades are as follows:
  - a. W (Withdrawal) is assigned by the registrar if a student withdraws officially from a course between the end of the no-grade period and the ninth week of 14-week courses (the fifth week of 7-week courses).

- b. The I (Incomplete) grade is temporary and may be given only after the cut-off date for use of the W grade. It is used in the case of severe hardship beyond the control of a student that prevents him or her from completing course requirements. Course work to remove an I grade must be completed during the first eight weeks of the next semester (fall or winter) for which the student registers unless a student-initiated extension is approved by the instructor and the dean of the appropriate college or school. If course requirements are not completed within one year and no semester has been registered for, the I grade shall be changed to a grade of 0.00. A student who wishes to receive an Incomplete grade in a course must present a Student Request for Incomplete (I) Grade form to the instructor by the day of the scheduled final examination. This form, which indicates the instructor's willingness or unwillingness to grant the I and the schedule he or she sets for completing the semester's work, is available in department offices and the Registration Office.
  - c. The P (Progress) grade is temporary and may be given only in a course that, by design, cannot be completed in one semester or session. Prior approval must be obtained from the dean of the appropriate college or school to assign P grades in a particular course. The P grade is only given for course work that is satisfactory in every respect. P grades must be removed within two calendar years from the date of assignment. If this is not done, the P will be changed to a 0.00.
  - d. The S (Satisfactory) grade implies a grade of 2.00 or better in certain selected courses in which S/U grading is used exclusively; such courses must be approved by the appropriate committee on instruction. Under circumstances presented below, students may elect as an option to take a numerically graded course on an S/U basis.
  - e. The U (Unsatisfactory) grade is given in selected courses approved for S/U grading and implies a non-passing grade of less than 2.00. It also denotes unsatisfactory work in a numerically graded course elected by a student on an S/U basis.
  - f. R is a temporary grade assigned by the registrar in the absence of a grade from the instructor.
  - g. Z is assigned upon registration for an audited course. The student's declaration of intention to audit is required, and it is understood that no credit for the course is intended that term.
4. If none of the above applies, the course is considered to have been successfully completed when the instructor assigns a numerical grade from 1.00 to 4.00. The University Senate has approved publication of the following conversion for some external purposes:
- 3.60-4.00 — A
  - 3.00-3.50 — B
  - 2.00-2.90 — C
  - 1.00-1.90 — D
  - 0.00 — no credit
5. All grades appear on a student's transcript. However, only numerical grades are used to determine the student's grade point average, which is computed to two decimal places.

### S/U grading option

Any undergraduate who has completed at least 28 credit hours toward graduation may elect to take up to 8 credits of course work at Oakland University on an S/U grading basis, assuming that all prerequisites have been completed and subject to the following conditions.

- a. These credits may only be counted as free elective credits. They may not be used to satisfy general education requirements (including college or school distribution requirements), the student's major or minor course requirements or prerequisites, or any courses designated "No S/U" in the *Schedule of Classes*.
- b. Any courses that are designated S/U in the catalog or *Schedule of Classes* will not count toward the limit of 8 S/U grading option credits per student. Courses where the S/U grading system is used to grade all students in the course can be used to satisfy any academic requirement.

- c. The student must elect the S/U option by the late registration deadline by filing the appropriate form with the Registration Office, 100 O'Dowd Hall.
- d. Instructors will not be informed on their enrollment lists as to who are the S/U students, if any. They will simply assign numeric grades (0.0 to 4.0) to all enrolled students. For students who have elected the S/U option, the Registrar's Office will then convert numeric grades from 2.0 to 4.0 to an S and numeric grades from 0.0 to 1.9 to a U. An S or U will appear on the student's grade slip and transcript.
- e. Neither the S nor the U grade will be included in the student's Grade Point Average.
- f. If an academic unit at Oakland University later requires evidence of a numerical grade point instead of an S, because of a change of program status, the student may file a petition with the Registration Office to release that grade point information to the program requiring the evidence.
- g. If a course is repeated, it must be repeated on the same grading basis as the first attempt.

### Academic conduct policy

All members of the academic community at Oakland University are expected to practice and uphold standards of academic integrity and honesty. Instructors are expected to inform and instruct students about the procedures and standards of research and documentation required to fulfill course work. Students are expected to follow such instructions and make sure they understand the rules and procedures in order to avoid inadvertent misrepresentation of their work.

Students must assume that individual (unaided) work on exams, lab reports, computer assignments and documentation of sources is expected unless the instructor specifically says that it is not necessary. Students must also assume that if the instructor assigns a special project other than or in addition to exams (such as a research paper, an original essay or a book review) as part of the course requirements, he or she intends that work to be completed for that particular course exclusively. Any such work students may have completed for a course taken in the past, or may be completing for another current course, must not be submitted unless permission to do so is received.

Academic integrity means representing oneself and one's work honestly. Misrepresentation is cheating — it means a student is claiming credit for ideas or work not actually his or hers and is thereby seeking a grade that is not actually earned. The following definitions are examples of academic dishonesty:

1. Cheating on examinations by using materials such as books and/or notes when not authorized by the instructor; taking advantage of prior information not authorized by the instructor regarding questions to be asked on the exam; copying from someone else's paper; helping someone else copy work; and other forms of misrepresentation. Students should be careful to avoid the appearance of cheating.
2. Plagiarizing the work of others. Plagiarism is using someone else's work or ideas without giving that person credit; by doing this a student is, in effect, claiming credit for someone else's thinking. Whether the student has read or heard about the information used, he or she must document the source of information. When dealing with written sources, a clear distinction should be made between quotations (which reproduce information from the source word for word within quotation marks) and paraphrases (which digest the source information and produce it in the student's own words). Both direct quotations and paraphrases must be documented. Even though a student rephrases, condenses or selects from another person's work, the ideas still belong to that person; failure to give credit constitutes misrepresentation of the student's actual work and plagiarism of another's ideas. Naturally, buying a paper and handing it in as one's own work is plagiarism.
3. Cheating on lab reports by falsifying data or submitting data not based on the student's own work.
4. Falsifying records or providing misinformation regarding one's credentials.
5. Unauthorized collaboration on computer assignments and unauthorized access to and use of computer programs.

If a student feels that practices by the instructor are conducive to cheating, he or she may convey this information to the instructor, the student ombudsperson of the University Congress or any member of the student/faculty University Committee on Academic Conduct (either directly or through the Office of the Dean of Students).

Instructors are expected to bring evidence of plagiarism, cheating on exams or lab reports, falsification of records or other forms of academic misconduct before the Academic Conduct Committee of the University Senate for determination of the facts in the case and, if warranted, assessment of penalty. If academic misconduct is determined, the committee will assess penalties ranging from academic disciplinary reprimand (which is part of the student's confidential university file), to academic probation, suspension or dismissal from the university.

Instructors play at least three roles in maintaining proper standards in the context of academic conduct:

1. To assist in recognizing the application of general standards in the context of a particular course or discipline
2. To take practical steps to prevent cheating and to detect it when it occurs
3. To report academic misconduct to the dean of students, 144 Oakland Center, for consideration by the Committee on Academic Conduct

### **Auditing courses**

A formal audit option is available for students who wish to participate in a course on a non-graded basis. With written permission of the instructor, students may register to audit a course during the late registration period for each semester or session. Forms for auditing classes are available in the Registration Office, Office of Admissions, Office of Graduate Study and Academic Services and General Studies Office.

Audit registrations are governed by the following rules:

1. Regular tuition and fees apply to all courses.
2. The registrar will assign the final mark of Z to all formal audits.
3. Changes of registration from credit to audit or from audit to credit will not be permitted once the no-grade add/drop period has ended for a given semester or session.
4. Students who wish to audit courses must have been admitted to the university by the Office of Admissions.
5. Students whose entire registration for a semester or session consists of formal audits must register during late registration. Late registration fees will be waived for such students.

### **Repeating courses**

Students may repeat a course up to two times, with the last grade (excluding non-numeric grades) earned in the course used in the grade point average (GPA) computation. At the time of registration for a course taken previously, the student must file a "repeat form." Filing this form is the student's responsibility and will ensure that proper adjustments to GPA and degree credits are made. Detailed information on when forms should be filed and how academic records appear when courses are repeated appears in each term's *Schedule of Classes*.

### **Academic honors**

At the end of each fall and winter semester, undergraduates who have earned a semester grade point average (GPA) of 3.00 or higher in at least 12 credit hours of numerically graded university work and who have received no 0.0 grades will be recognized for academic achievement. These credits must be earned within the time constraints of the normal semester. Credits or grades for incompletes awarded after the end of the term will not be considered for commendation or honors. Notices of commendation will be sent to undergraduates with GPAs of 3.00 to 3.59. Notices of academic honors will be sent to undergraduates with GPAs of 3.60 to 4.00. Both commendation and academic honors will be recorded on students' academic transcripts.

## University honors

The three levels of university honors, cum laude, magna cum laude and summa cum laude, may be awarded with the conferral of a student's earned baccalaureate with the following cumulative grade point averages: 3.60 -3.74, cum laude; 3.75-3.89, magna cum laude; and 3.90-4.00, summa cum laude.

The awarding of a degree with university honors will be based only on Oakland University credits, and the student must earn at least 62 credits at Oakland University to be eligible for such honors.

## Academic records

Academic records are maintained in the Records Office, 102 O'Dowd Hall. Standing reports are mailed to each enrolled student's permanent address of record at the end of each academic period. Transcripts of academic records may be obtained by completing a transcript request form at the Records Office or by writing Transcript Request, Office of the Registrar, Oakland University, Rochester, Michigan 48309-4401. Requests should include the name under which the student attended, the student's Oakland University student number, the date the student last attended and date of degree (if applicable), the level of last course work and the address to which the transcript is to be sent.

A check or money order of \$3 per transcript must accompany the request. Transcripts will not be issued for students who have delinquent indebtedness to the university or who are delinquent in repaying a National Direct Student Loan (NDSL) or Nursing Student Loan (NSL).

## Academic probation and dismissal

Undergraduates who make unsatisfactory progress toward a degree by failing courses, will be placed on probation in accordance with a university policy that stipulates that students must complete for credit most of the courses for which they register. Students on probation who fail to meet the minimal standard of progress established by the University Senate will be dismissed from the university.

Students receive a report of their academic standing on a Report of Standings. Students whose continued enrollment in the university is questionable will receive a letter and an appeal form after term grade reports are distributed. If the student is dismissed, an appeal petition must be filed with the director of academic services within 10 calendar days of issuance of the dismissal notification.

The Academic Probation and Dismissal Policy is administered by the director of academic services for the University Senate's Academic Standing and Honors Committee. The policy is based on the following principles or practices:

1. Each student should be encouraged to make responsible decisions concerning his or her educational progress. A student who is apparently not benefiting sufficiently from the educational opportunities available at the university should be advised to consider other alternatives. A non-achieving student should take the initiative and turn to more productive or satisfying activities before the committee finds it necessary to dismiss him or her.
2. The major share of a student's educational expense is provided by the State of Michigan, and it is the responsibility of the university to see that these funds are properly used. If a student fails to make satisfactory academic progress toward a degree, dismissal action must be taken by the Academic Standing and Honors Committee.
3. Some students new to the university (including transfer students) need a period of adjustment; therefore, no student will be dismissed at the end of his or her first semester at the university. Furthermore, a student will not be dismissed without having been placed on probation in the previously enrolled semester.
4. Students must have a 2.00 grade point average (GPA) upon graduation, and the probation policy specifies that they must make satisfactory progress toward this goal. Students with

fewer than 80 credits toward graduation who have GPAs below 2.00 are normally allowed to continue their studies on probation if it is reasonable to expect that they can sufficiently raise their cumulative GPAs. A chart indicating the required GPA for the number of credits accumulated at Oakland University (including transfer credits) is available from the Academic Services Records Office, 154 North Foundation Hall.

5. The Academic Standing and Honors Committee attempts to assemble and review pertinent information on each student who is in academic difficulty. Sometimes, however, there is information that would modify the decision if it were available. Consequently, students are advised to appeal the action of the committee if they feel there are valid reasons for rescinding probation or dismissal actions.
6. Students are notified on their grade reports of their academic standing.
7. Students who have been dismissed may appeal by completing an official Academic Standing Appeal Form and submitting it to the Academic Standing and Honors Committee within 10 calendar days of receipt of the dismissal notice. The forms are available in the Academic Services Records Office, 154 North Foundation Hall.

Specific procedure: To stay in good academic standing, the student must not allow his or her cumulative GPA to drop below 2.00. Some schools and departments establish more selective criteria for satisfactory academic performance within their majors. Students should consult other sections of this catalog for specific information.

Actions to be taken with regard to grades earned at Oakland University between the fall 1976 semester and the summer 1984 session:

1. Any student who has accumulated more than 32 credits of N/WN grades is liable for dismissal.
2. The academic standing of a student whose accumulation of N/WN grades is less than the above limit is based on a numerical approximation of progress toward graduation called an Academic Progress Indicator (API).
3. In the computation of the API, W grades are not used.
4. In the computation of the API, S/WS grades are assigned the numerical value of 2.0; N/WN grades are assigned the numerical value of 0.0
5. The computation of API depends on the number of credits of N/WN grades received and the number of credits earned toward graduation. There are three different cases:
  - a. More than 27 credits toward graduation and more than 12 credits of N/WN grades: The API is the ratio of the sum of the honor points of the numerical equivalents of all grades received to the total number of credits attempted.
  - b. More than 27 credits toward graduation and fewer than 13 credits of N/WN grades: The API is the ratio of the sum of the honor points of the numerical equivalents of all grades earned toward graduation to the number of credits earned toward graduation.
  - c. Fewer than 28 credits earned toward graduation: The API is computed as in a. above.
6. A student with 80 credits or more toward graduation whose API is less than 2.00 is liable for dismissal. A student with T (transfer credits) and E (earned credits) at Oakland University with  $T +$  fewer than 80 whose API is less than  $1.4 + 0.6E (80 - T)$  is liable for dismissal.
7. A student who is liable for dismissal at the end of a probationary term will be dismissed.
8. A student will be placed on probation at the end of a term if:
  - a. The student is not liable for dismissal, but the API is less than 2.00 or
  - b. The student is liable for dismissal but is not already on probation.
9. A student who has successfully appealed a dismissal will be placed in the Dismissal Option Program.
10. A student in the Dismissal Option Program will return to good standing at the end of the term in which the API is greater than or equal to 2.00. This program, administered by the Academic Skills Center, requires a student to complete a learning contract designed to facilitate academic improvement, meet with the appropriate academic adviser, and discuss academic performance with the instructors of classes in which the student is enrolled.



11. A student in the Dismissal Option Program will be continued in the program if the API of that term's work (computed as in 5a.) continued over succeeding terms until 124 credits are completed would result in an API of at least 2.00. Otherwise, the student will be dismissed.

The grading system described on page 33 of this catalog went into effect in the fall 1984 semester, eliminating N, WS and WN grades and the need for an API for new students. Hereafter, the GPA will be used to determine academic standing, with the API only serving as an index of academic progress for students admitted to the university between fall 1976 and summer 1984.

### **Dismissal from the university**

An undergraduate who is dismissed from the university for any reason does not retain the privileges of a student in good standing. A student who has been dismissed may apply for re-admission through the Academic Services Records Office, 154 North Foundation Hall, unless he or she has been informed that readmission will not be considered.

### **Academic forgiveness**

Students attending Oakland University after an absence of three or more years, who were not in good academic standing prior to their absence, may file a Petition of Forgiveness with the Academic Standing and Honors Committee. The committee may forgive, for academic standing purposes only (probation and dismissal), all or part of the record used to compute probationary and dismissal status. Petitions of Forgiveness may be obtained from the Academic Services Records Office, 154 North Foundation Hall.

### **Undergraduate withdrawal**

A student who leaves the university for any reason must follow the withdrawal procedure. Undergraduates withdrawing from the university must do so through the Academic Services Records Office. When a student withdraws from the university after the second week of classes (first week in spring and summer sessions) and before the end of the official withdrawal period, W grades will be assigned in all uncompleted courses. Official withdrawal from the university is not permitted after the ninth week of 14-week courses (fifth week of 7-week courses).

Undergraduates who plan to return to the university should consult the readmission policy below.

### **Readmission**

An undergraduate whose attendance at Oakland University is interrupted may be required to make formal application for readmission. The regulations are:

1. Students whose attendance has been interrupted for a period of six or more years must apply for readmission.
2. Students who withdraw from the university and who are not in good academic standing at the time of the withdrawal must apply for readmission.
3. Students who have been dismissed from the university for any reason must apply for readmission.
4. All other undergraduates may return and register for classes without seeking formal readmission.

Students who must apply for readmission should submit an application to the Academic Services Records Office at least one month before the first day of registration of the semester or session the undergraduate expects to re-enter. (Failure to apply early could result in not being able to register.)

# OTHER ACADEMIC PROGRAMS

This catalog is devoted to undergraduate degree offerings at Oakland University through the College of Arts and Sciences and schools of Business Administration, Engineering and Computer Science, Health Science, Human and Educational Services and Nursing. In addition, the university has other academic units that are central to its mission. Brief descriptions of these units are provided below.

## University Library

**Dean:** Suzanne O. Frankie

**Associate dean:** Indra M. David

**Office of the Dean:** Eric Condic, circulation manager; David L. Gustner, business manager; Alexis L. Salisz, manager, technical services; Bernard L. Toutant, administrative assistant

**Professors:** Suzanne O. Frankie, George L. Gardiner, Eileen E. Hitchingham, Janet A. Krompart

**Associate professors:** Indra M. David, Robert G. Gaylor, Mildred H. Merz

**Assistant professors:** Sharon Bostick, William Cramer, Linda L. Hildebrand, Frank Lepkowski, Richard L. Pettengill, Ann M. Pogary, Daniel F. Ring, Kristine S. Salomon

## Library facilities

Most university library materials and services are housed in Kresge Library. Magazines are on the third level, circulating books on the second level, reference works and major library services on the main level, and microforms and government documents on the lower level.

The Instructional Technology Center, located in Varner Hall, provides media services for instructional films and designs and produces programs ranging from slide presentations to audio-visual presentations requiring a television studio. In addition, the Performing Arts Library (also located in Varner) houses a special collection of books, journals, acting editions of plays, music collection scores and recordings.

## Library collections

The University Library collection of 1,276,845 pieces of library material includes 745,546 microforms, 13,362 records and phonotapes, 51,735 periodical volumes and 283,793 cataloged circulating and reference books. Supplementing the collection are extensive unprocessed materials, manuscripts, memorabilia and museum pieces.

Through a \$100,000 fund established by Oakland University students in memory of Matilda R. Wilson, the library now has an excellent reference collection. This includes atlases, bibliographies, dictionaries, encyclopedias, indexes, yearbooks and other reference materials. In 1979, with the depletion of the Wilson Fund, Oakland students began to assess themselves voluntarily to continue augmenting the collection.

The library receives some 2,209 paid serial subscriptions. Periodicals and other serials are shelved alphabetically by title on the third floor of the library. Since 1964, the library has been a U.S. Government depository and receives about 60 percent of the depository materials published each year. It also is a depository for Michigan documents. These collections are indexed by the *Monthly Catalog of U.S. Government Publications* and *Michigan Documents*.

The following special collections are included in the library's holdings:

*William Springer Collection of Lincolniana and Civil War Materials* (secondary source materials)

*Hicks Women in Literature Collection* (several hundred volumes written by or about women in the 17th-20th centuries)

*James Folklore Collection* (550 folklore monographs, some very rare)

*Anglo-Irish Collection* (rare monographs, journals, literary works in original typescripts, signed poems and reviews, and original letters to and from literary figures)

*Billie Sunday Farnum Collection* (papers from Farnum's terms in Congress and other public and political offices and as Michigan auditor general)

*Alternative (Underground) Press Collection* (one of the largest in existence; focuses on the Midwest)

*University Archives Collection* (materials of historical or legal significance to Oakland University)

*Faculty Publications Collection* (monographs written by Oakland faculty members)

### Library services

Periodicals are arranged alphabetically on shelves and are not cataloged. Most other library materials are classified under the Library of Congress system and indexed through the public card catalog. The reserved book collection, housed in the circulation unit, is a collection of materials that faculty members have reserved for use by specific classes.

Reference librarians help students find materials and use the library. Bibliographic instruction and data-base services supplement these traditional reference services. As part of some regular credit courses, teaching and library faculty members collaborate on lectures and demonstrations on library usage. The library's on-line literature search service aids in retrieval of citations of published articles in education, engineering, medicine, psychology and natural and social sciences.

Through interlibrary lending, members of the university community may obtain materials that are unavailable in the university library. Interloan systems share books, periodicals and newspaper articles, theses and dissertations, films and documents on microform, music scores and research papers.

## Office of Graduate Study

Dean: *George Dahlgren*

Office of the Dean: *Elizabeth L. Conner, assistant to the dean*

Course offerings and programs of study at the graduate level constitute a major Oakland University enterprise. Most schools and departments offer some form of graduate work leading to advanced degrees.

All of the graduate programs have their philosophical underpinning in the university's role and mission statement. Through them, the intellectual and educational needs of students are served in relation to specific careers; cultural heritage is preserved and extended; and new knowledge is produced that is directed toward the extension of frontiers and the solution of problems and issues that confront society as a whole. Programmatic balance is sought to assist in the achievement of these varied outcomes. Students are assumed to be full partners in the process of program implementation. Through this partnership, the goals and purposes of graduate education are fulfilled.

Details of the programs and regulations that govern graduate work appear in the *Oakland University Graduate Catalog*. Copies of the catalog are available from the University Bookcenter. Prospective students should also consult the school or department in which they wish to study.

### Graduate degree programs

**Doctor of Philosophy:** biomedical sciences (cellular biology of aging, health and environmental chemistry, medical physics), reading, systems engineering

#### Education Specialist

**Master of Arts:** counseling, English, history, linguistics, sociology

#### Master of Business Administration

**Master of Music:** performance, piano pedagogy, conducting, composition, early music, music education, jazz

#### Master of Public Administration

**Master of Science:** applied mathematics, applied statistics, biology, chemistry, computer and engineering science, electrical and computer engineering, exercise science, mechanical engineering, nursing, physics, systems and industrial engineering

**Master of Arts in Teaching:** curriculum, instruction and leadership, early childhood education, English, mathematics, reading, special education

### Graduate certificate programs

Statistics

Microcomputer applications in education

## On-campus Evening Degree Programs

Students may earn undergraduate degrees at night in 18 major areas: accounting, communication arts, economics, English, finance, general management, general studies, history, human resources development, human resources management, industrial health and safety, journalism, management information systems, marketing, political science, psychology, public administration, and sociology/anthropology.

In addition, concentrations are available for students attending only in the evening in folklore and popular culture, film aesthetics and history, social justice and corrections, and women's studies. Minors in accounting, communication arts, economics, English, finance, history, human resources development, industrial health and safety, journalism, management, political science, psychology and sociology/anthropology are available to evening students.

## Evening Extension Program

**Coordinator of field services:** *Sheryl Lynn Clark*

Oakland University offers undergraduate courses at various sites in southeast Michigan, including: Dondero, Kimball and Shrine high schools, Royal Oak; Groves High School, Birmingham; Carleton Junior High School, Sterling Heights; Jewish Community Center, West Bloomfield; Pontiac Art Center, Pontiac; and schools in Clarkston.

Extension courses also are offered to businesses, government agencies, private agencies and civic groups. The courses provide special instruction to the employees or members of these organizations. Most courses can be taught at the organization's facility. Course content is structured to address specific needs or goals identified by the organization.

## Non-matriculating admission

Potential evening students who have never attended Oakland University and are unable to secure regular admission to the university because of time constraints may register for classes at extension sites on a non-matriculating basis, if space is available. Non-matriculating students are charged an application fee.

Non-matriculating admission is valid for only one semester. During that semester, students must secure regular admission to the university. To be considered for regular admission, students need to submit a second application for admission to the Office of Admissions and Scholarships, with the required fee, and forward transcripts from all past colleges, universities or high schools attended. Students who are accepted will receive a letter of admission. Non-matriculating students will receive full academic credit for courses in which they are enrolled.

### **Post-baccalaureate admission**

Potential evening students who hold baccalaureate degrees or advanced degrees (such as a master's degree) and who are unable to secure regular admission to the university because of time constraints may register for undergraduate classes at extension sites on a post-baccalaureate basis, if space is available.

Under post-baccalaureate status, students are admitted as special non-degree candidates. Their previous academic work is not evaluated by the registrar's office.

To obtain post-baccalaureate status, students must complete the undergraduate admissions application and pay an application fee at the time of registration at the extension site. A duplicated copy of a baccalaureate diploma or a copy of a transcript stating the degree earned must be presented at registration.

### **Extension course cancellation**

Oakland University reserves the right to cancel any extension course that does not have sufficient enrollment. All tuition and fees applicable to the cancelled section will be automatically refunded when a course is cancelled.

# COLLEGE OF ARTS AND SCIENCES

Dean: *Brian P. Copenhaver*

Office of the Dean: *Sheldon Appleton, associate dean; Isaac Eliezer, associate dean; Brian F. Murphy, director of the Honors College; Thomas Kirchner, administrator for college services; Rosemary Robinson, advising coordinator; Barbara McCrory, academic adviser; Janice Elvekrog, administrative assistant*

The College of Arts and Sciences offers instruction leading to the Bachelor of Arts, Bachelor of Music, Bachelor of Science, Master of Arts, Master of Music, Master of Science and Doctor of Philosophy degrees. In conjunction with the School of Human and Educational Services, it offers instruction leading to the Master of Arts in Teaching degree.

## Requirements for Bachelor of Arts and Bachelor of Science Degrees

### General requirements

Each student must:

1. Complete at least 124 credits; the Bachelor of Music degree and Bachelor of Science degree in environmental health require completion of 128 credits. No more than 8 credits in physical education will count toward a degree in the College of Arts and Sciences except for students completing a secondary teaching minor in physical education, who are allowed up to 20 credits in physical education.
2. Complete at least 32 of these credits at Oakland University, of which at least 16 credits must be in the student's elected major.
3. Complete at least 32 credits in courses at the 300 level or above.
4. Complete the last 8 credits (to complete baccalaureate requirements) at Oakland University.
5. Earn a cumulative grade point average of at least 2.00 in courses taken at Oakland University and in the major(s) and any elective minor(s).
6. Obtain certification of writing proficiency, as described on page 27.
7. Complete the university's general education requirement, as described on pages 28-31.
8. Complete the college distribution requirement described below.
9. Be in substantial compliance with all legal curricular requirements.

### College distribution requirements

In addition to completing the university-wide general education requirements, students seeking the Bachelor of Arts degree must take 16 additional credits\*, distributed as indicated in four of the six areas listed below. Students seeking the Bachelor of Science degree need take only 12 additional credits\* in three of the six areas listed below. Candidates for the Bachelor of Music degree must take 4 credits in each of three different distribution areas. With the approval of the Department of Music, Theatre and Dance, however, a student may substitute a non-music course from the university general education arts category for a course in one of the other areas comprising the college distribution requirements.

None of these requirements may be met by independent study courses, internships or teaching methods courses. Courses in the major may be applied toward these requirements, except as noted

below in #4 for majors in social science disciplines and in "Special provisions for transfer students."

1. Foreign language: 4 credits in a modern foreign language numbered 115 or higher. (Note: 4 credits in modern language numbered 115 or higher may be used to satisfy two requirements at once: the university-wide general education requirements and part of the college distribution requirements. Thus, Bachelor of Arts students able to place into and complete a foreign language course at the 115 level or higher will need to take only 12 — instead of 16 — additional credits. Bachelor of Science students will only need to take 8 — instead of 12 — additional credits.)
2. Arts and literature: An additional 4 credits from either the university general education field category list in arts and literature (see pages 28-29); or art or art history, cinema, dance, English, music or theatre course at the 300 level or higher, except for writing courses (ENG 308, 309, 310, 380, 382, 399 and 410); or literature courses at the 300 level or higher in a modern foreign language.
3. Civilization: An additional 4 credits from either history, philosophy or international studies courses listed in the university general education field categories of Western civilization or international studies (see page 29); or history or philosophy courses at the 300 level or higher.
4. Social sciences: An additional 4 credits in anthropology, economics, political science, psychology or sociology from either the university general education field category list in social science (see page 30 of this catalog); or courses at the 300 level or higher in any of these disciplines or linguistics courses ALS 334, 335, 373, 374, 375 or 376. (Majors in one of the social science disciplines must take these credits in a different social science discipline.)
5. Mathematics: An additional 4 credits in mathematical sciences (except MTH 100, 111\*\*, 112\*\* or any MTE course)
6. Science: An additional 4 credits in biology, chemistry, environmental health or physics.

\*See note under "Foreign language."

\*\*See the special information concerning these courses on page 98.

### Special provisions for transfer students

The university's general education requirements and the college's distribution requirements call for a distribution of courses among various fields as well as a total number of credits. Students transferring from other institutions may meet a 4-credit field requirement with an appropriate 3-credit transfer course. Such students, however, must take additional courses from any of the field categories above to bring the total number of credits completed up to the numbers required for their degree: 32 general education credits plus 16 college distribution credits for the Bachelor of Arts; 32 general education credits plus 12 college distribution credits for the Bachelor of Science. (Only 4 credits numbered 115 or higher in foreign language, or a transferred equivalent, may be applied toward both of these requirements; see the "Foreign language" field category above.)

No more than 8 credits in the major discipline and 8 credits in other courses required for the major may be counted toward these credit totals, however, except by students majoring in linguistics or journalism. (Cross-listed courses are considered to be in the department in whose listing the course description is given in full.) Students who have completed the MACRAO Agreement must complete the college distribution requirements in addition to the two courses required to complete the university general education requirements (see pages 28-31).

### Academic Advising and Program Planning

All students are responsible for planning their academic programs so as to meet all requirements for the degrees they are pursuing. Students should maintain their own records concerning course work completed, grades received, credits earned and requirements met. To assist

students with this responsibility, academic advisers are available in the College of Arts and Sciences' Advising Office and in each academic department. Students are encouraged to utilize these services since those who neglect to consult with these advisers often risk delay in the awarding of their degrees. They are also encouraged to participate in a graduation check during the term preceding the one of anticipated graduation.

## Departmental Major or Independent Major Requirements

Students must fulfill all requirements of their elected majors as described in the departmental entries. Students may also satisfy these requirements by completing an independent major as described below. A cumulative grade point average of 2.00 in the major or independent major is required for graduation.

### Majors

The majors offered in or accepted by the College of Arts and Sciences are listed below. For specific requirements see the departmental entries.

Anthropology	Latin American languages and civilizations
Art history	Linguistics
Biology	Mathematics
Chemistry	Music
Chinese language and civilization	Philosophy
Communication arts	Physics
Economics	Political science
English	Psychology
Environmental health	Public administration and public policy
French	Russian
German	Sociology
History	Sociology and anthropology
International studies	Spanish
Journalism	

The College of Arts and Sciences offers a Bachelor of Music in music education. For specific requirements, see page 119 of this catalog and the "Music Handbook," available from the Department of Music, Theatre and Dance.

There are no college-wide regulations governing admission to major standing or retention in these areas. Each department controls its own procedures in these areas. Students should maintain close contact with faculty advisers in the department in which they wish to major; students who fail to do so risk delay in graduating.

### Multiple majors

Students who elect to major in more than one area in the College of Arts and Sciences must satisfy the specific requirements of each of the majors they choose. Such students are single-degree candidates with more than one major and must satisfy the general and specific requirements applicable to the awarding of one degree, either a Bachelor of Arts or Bachelor of Science. Under certain conditions, a student may earn more than one degree. Such students are double-degree candidates. For information on the restrictions that apply to the awarding of more than one degree and the requirements that double-degree candidates must satisfy, please see page 31.

### Independent majors

Students interested in academic areas in which no suitable major program is available may petition the college Committee on Instruction for an individually tailored independent major in place of one of the departmental majors listed above. An independent major also may be



taken as part of a double-major program in conjunction with a regular departmental major, provided that no course counted toward completion of the departmental major is also counted toward completion of the independent major. Students will be admitted to the independent major only after completing 32 credits but before completing 90 credits. For the specific requirements of an independent major, consult the College of Arts and Sciences' Advising Office.

## Special Instructional Programs of the College

### Minors for liberal arts degree programs

Minors are not required by the College of Arts and Sciences for baccalaureate programs, but the college offers a number of liberal arts minors that students may pursue in addition to the required major. A cumulative grade point average of 2.00 is required in courses included in the minor. At least 8 of the credits offered for each minor must be taken at Oakland University. Courses that meet both minor requirements and general education or college distribution requirements may be used to meet both of these requirements. The college offers or accepts the following minors\*, described in detail under departmental entries or as indicated below:

Accounting (see page 210)	Journalism (see page 165)
Advertising (see page 165)	Linguistics
Anthropology	Management (see page 211)
Art history	Mathematics
Biology	Modern languages
Chemistry	Music
Communication arts	Philosophy
Computer science	Physics
Dance	Political science
Economics	Psychology
English	Quantitative methods (management)
Finance (see page 210)	Science (see page 193)
History	Sociology
Human resources development	Studio art
International management	Theatre arts
International studies	

\*These minors do not count toward an elementary or a secondary teaching credential.

### Secondary teaching minors

Secondary teaching minors are not required by the College of Arts and Sciences for baccalaureate programs, but are required of prospective secondary school teachers seeking certification by the Michigan Department of Education.

A cumulative grade point average of 2.00 is required in courses included in the minor. At least 8 of the credits offered for each minor must be taken at Oakland University. Courses taken to satisfy general education or college distribution requirements may also be used to meet those for the teaching minor. Only programs entitled "Secondary Teaching Minor" will be certified by the Michigan Department of Education. The college offers the following secondary teaching minors, which are described in detail under departmental entries:

Biology	Modern languages
Chemistry	Music
English	Physics
History	Science
Mathematics	Speech

### Interdepartmental programs/concentrations

The College of Arts and Sciences offers a number of interdepartmental programs and concentrations that students may pursue in addition to a departmental major. Concentrations are elective and are not required for graduation. Unlike the elective liberal arts minor, no specific grade point average is required for completion of any given concentration. A course may be counted toward more than one major, minor or concentration only when the department or program coordinator responsible for each program involved approves. As a general rule, no more than 8 credits of course work may be used toward more than one program, but exceptions to this rule may be allowed with the written approval of the program coordinators. Courses that meet both concentration requirements and general education or college distribution requirements may be used to satisfy both of these requirements.

The college offers the following interdepartmental programs and concentrations, which are described in detail on pages 182-193 of this catalog:

American studies	Prelaw studies
Applied statistics	Preprofessional studies in medicine, dentistry and optometry
Archaeology	Religious studies
Energy studies	Social justice and corrections
Environmental studies	Social services
Film aesthetics and history	Urban studies
Folklore and popular culture	Women's studies
Gerontology	
Michigan studies	

### Interschool M.B.A. program

For superior undergraduate students in any major in the college, the School of Business Administration offers the Master of Business Administration (M.B.A.) degree. This is a two-year professional program in management designed for students with non-business undergraduate majors. Undergraduate business or management majors may take a variation of the standard M.B.A. program.

Arts and sciences undergraduates working on a major other than one of the business areas may obtain both the undergraduate degree and M.B.A. in an accelerated program. To be eligible, students should have a grade point average in the top 15 percent of their class. Students should apply to the School of Business Administration for admission to this accelerated program in their junior year (see the *Oakland University Graduate Catalog*).

### Field experience program

The College of Arts and Sciences offers, by means of departmental courses numbered 399, opportunities for students to obtain academic credit related to concurrent field work experience. Emphasis is on the academic aspect of this program, which incorporates student performance in the field. Students are required to make an intellectual analysis of the field experience based on their academic program.

The 399 courses carry 4 credits each, are numerically graded and may not be repeated for additional credit. Students wishing to participate in this program are expected to be at the junior or senior level, and must have completed at least 16 credits in the department in whose 399 course they wish to enroll. Individual departments may have specific prerequisites in addition to these. For details, consult one of the departments participating in this program: art and art history, biological sciences, history, modern languages and literatures, philosophy, psychology and sociology and anthropology.

### Cooperative education

Students majoring in one of the arts and sciences disciplines have the opportunity to participate in a cooperative education (co-op) program. Co-op offers students the chance to obtain

work experience directly related to their chosen careers or fields of study. For example, chemistry majors may work in chemistry laboratories, prelaw students in law offices and journalism and communications majors in various writing jobs. By involving students in an on-the-job experience, co-op helps them make decision about their future careers. And in addition to augmenting their classroom work, it helps them defray the cost of college.

To participate in the co-op program, students should have junior or senior standing, a 3.00 grade point average and the approval of their faculty adviser. Students must agree to accept employment for at least two semesters and should not expect to work only during the spring and summer terms. Interested students should contact the Cooperative Education Office.

Associate Professor of Psychology, University of North Carolina at Chapel Hill  
 Susan E. Wiley (sue.wiley@unc.edu)

Assistant Professor of Psychology, University of North Carolina at Chapel Hill  
 L. Brent Whitely (lwhitely@unc.edu)

Chief, Cooperative Education Office, University of North Carolina at Chapel Hill  
 cooper@unc.edu

At the University of North Carolina at Chapel Hill, we are committed to providing our students with the best possible educational experience. We offer a wide range of programs and services designed to help our students succeed in their studies and in their careers. Our Cooperative Education Office is a key part of this commitment, providing students with the opportunity to gain valuable work experience while still in college.

The Cooperative Education Office is a key part of the University of North Carolina at Chapel Hill's commitment to providing our students with the best possible educational experience. We offer a wide range of programs and services designed to help our students succeed in their studies and in their careers. Our Cooperative Education Office is a key part of this commitment, providing students with the opportunity to gain valuable work experience while still in college.

The Cooperative Education Office is a key part of the University of North Carolina at Chapel Hill's commitment to providing our students with the best possible educational experience. We offer a wide range of programs and services designed to help our students succeed in their studies and in their careers. Our Cooperative Education Office is a key part of this commitment, providing students with the opportunity to gain valuable work experience while still in college.

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

A total of 40 credits in the liberal arts major is required. The following are the requirements for the liberal arts major in the history.

1. History 101 (3 credits)

2. History 102 (3 credits)

3. History 201 (3 credits)

4. History 202 (3 credits)

5. History 301 (3 credits)

6. History 302 (3 credits)

# DEPARTMENT OF ART AND ART HISTORY

**Chairperson:** John B. Cameron

**Professors:** Carl F. Barnes, Jr. (*Art History and Archaeology*), John L. Beardman (*Studio Art*), John B. Cameron (*Art History*)

**Associate professors:** Janice G. Schimmelman (*Art History*), Charlotte V. Stokes (*Art History*), Susan E. Wood (*Art History*)

**Assistant professor:** Bonnie F. Abiko (*Art History*)

**Lecturer:** Paul Webster (*Studio Art*)

**Chief adviser:** Janice G. Schimmelman

Art history is an ideal curriculum for students who wish to investigate a broad range of humanistic disciplines. The visual arts are studied in their historical context in terms of the cultural, economic, philosophical, political, religious, social and technological conditions that determine content and form.

The art history program provides both majors and non-majors with a thorough introduction to the visual arts of various cultures throughout history. It is strengthened by visiting lecturers in special fields, group visits to the Detroit Institute of Arts and to other public and private art collections in metropolitan Detroit, and study of special exhibits at Oakland University's Meadow Brook Art Gallery. The art and art history program cooperates with concentrations in American studies, archaeology, area studies, Michigan studies and women's studies.

The department offers a program of study leading to the Bachelor of Arts degree with a major in art history. This program is intended for students who wish directed study in art history and for students who are contemplating a career in one of the fields in which art history is a basis — aesthetics and criticism, archaeology, architecture, college teaching, special library collections, art publishing, fine arts, conservation, historic preservation, museum curatorship and urban design.

## Requirements for the liberal arts major in art history

A total of 40 credits in art history courses, distributed as follows, are required to complete the major in art history:

1. AH 100 and 101
2. 20 credits from the following (at least one course must be selected from each category except non-Western, from which category two courses must be selected):  
 Non-Western: AH 104, 300, 301, 302, 305, 307, 308 and 320  
 Ancient/medieval: AH 312, 314, 322 and 326  
 Renaissance/baroque: AH 330, 334 and 340  
 American/modern: AH 350, 363, 364, 365 and 367
3. 8 elective credits from AH courses
4. One AH course at the 400 level
5. One studio art course (4 credits) as a cognate to the major

Department faculty will not recommend for graduate study students who have not completed, in addition to the above requirements, AH 480 and either 490 or 491, as well as at least one year of college-level German or French.

## Departmental honors in art history

Students wishing to be considered for departmental honors may petition for honors or be recommended by a department faculty member. In awarding honors, the faculty takes into consideration grade point average (GPA), citizenship within the department, classroom performance and/or scholarship as evidenced by a significant research paper.

There is no minimum grade point average required for honors, but consideration will normally be given only to students who have completed 20 credits of art history study at Oakland University with a GPA of 3.60 or higher. If a research paper is to be submitted for consideration, it should be submitted at least three weeks prior to the end of the semester in which the student intends to graduate.

## Requirements for the liberal arts minor in art history

A total of 20 credits in art history courses, to be distributed as follows, is required:

1. AH 100 and 101
2. A total of 8 credits, 4 each from any two of the following categories:  
**Ancient/medieval:** AH 312, 314, 322, 326  
**Renaissance/baroque:** AH 330, 334, 340  
**American/modern:** AH 350, 363, 364, 365, 367
3. 4 elective credits from AH courses

## Requirements for the liberal arts minor in studio art

A total of 20 credits in studio art courses, to be distributed as follows:

1. SA 100 and one of the following: SA 101, SA 107
2. One course from the following: SA 200, SA 209, SA 214
3. Two courses from the following: SA 307, SA 309, SA 314

## Course Offerings

### ART HISTORY

#### AH 100 Introduction to Western Art I (4)

History and analysis of the visual arts of western Europe from prehistoric times until the Renaissance, ca. A.D. 1400. Satisfies the university general education requirement in arts.

#### AH 101 Introduction to Western Art II (4)

History and analysis of the visual arts of western Europe from the Renaissance, ca. A.D. 1400 to the present. Satisfies the university general education requirement in arts.

#### AH 104 Introduction to Asian Art (4)

Introduction to the monuments of Asian Art, including India, China and Japan.

#### AH 208 Afro-American Art (4)

The arts of black Americans of African descent produced in the United States since ca. A.D. 1700.

#### AH 300 Chinese Art (4)

The development of architecture, sculpture and painting in China from the Shang Dynasty, ca. 1550 B.C. until the founding of the Chinese Republic, A.D. 1912.

#### AH 301 Japanese Art (4)

The development of architecture, sculpture and painting in Japan from the fifth to the nineteenth century A.D.

#### AH 302 Indian Art (4)

The development of architecture, sculpture and painting in India from prehistoric to modern times.

#### AH 305 African Art (4)

The arts of the indigenous peoples of West, Central and East Africa. May be offered concurrently at the graduate level as AH 505.

**AH 307 Pre-Columbian Art (4)**

The arts of the Indians of Mexico, Central America and South America prior to the Spanish Conquest.

**AH 308 North American Indian Art (4)**

The arts of the Eskimo and the Northwest Coast, United States and Canadian Indians.

**AH 312 Greek Art (4)**

The development of architecture, sculpture and painting in the pre-Hellenic, Aegean civilizations and in Classical Greece from ca. 3000 B.C. until the period of Roman domination in the Mediterranean area, ca. 100 B.C.

Prerequisite: AH 100.

**AH 314 Roman Art (4)**

The development of architecture, sculpture and painting in Etruria and in the Roman Republic and Empire from ca. 600 B.C. until the relocation of the capital at Constantinople in A.D. 330.

Prerequisite: AH 100.

**AH 320 Islamic Art (4)**

The development of architecture and painting in Islam from the seventh to the eighteenth century A.D. with reference to the countries of the Fertile Crescent, North Africa, Arab and Moorish Spain, Egypt, Persia, Turkey and Muslim India.

**AH 322 Early Medieval, Byzantine, and Romanesque Art (4)**

The development of architecture, sculpture and painting in Christian Europe from A.D. 330 through the apex of monasticism, ca. A.D. 1150.

Prerequisite: AH 100.

**AH 326 Gothic Art (4)**

The development of architecture, sculpture and painting in western Europe from ca. A.D. 1150 through the period of the Crusades and medieval urbanism, ca. A.D. 1400.

Prerequisite: AH 100.

**AH 330 Renaissance Art in Italy (4)**

The development of architecture, sculpture and painting in Italy during the Renaissance from A.D. 1300 to 1600.

Prerequisite: AH 101.

**AH 334 Renaissance Art in Northern Europe (4)**

The development of architecture, sculpture and painting in northern Europe from 1400-1600.

Prerequisite: AH 101.

**AH 340 Baroque Art (4)**

The development of architecture, sculpture and painting in western Europe and colonial South America during the period of absolute monarchy and the Counter-Reformation from A.D. 1600 to 1800.

Prerequisite: AH 101.

**AH 345 German Art (4)**

The development of painting, sculpture and architecture in the Germanic countries from the Renaissance to the present.

Prerequisite: AH 101.

**AH 348 English Art (4)**

The development of architecture, sculpture and painting in Britain from the Renaissance through the nineteenth century.

**AH 350 American Art (4)**

The development of architecture, sculpture and painting in the United States from the American Revolution, A.D. 1776, until World War I, A.D. 1914.

Prerequisite: AH 101.

**AH 351 Women in Art (4)**

The traditional image of woman in art and the contribution of women artists in Europe and the United States from the Middle Ages until the present. Identical with WS 301, Special Topics in Women's Studies: Women in Art.

Prerequisite: AH 101.

**AH 355 Michigan Architecture (4)**

The development of the commercial, domestic, industrial, public and religious architecture of Michigan from the period of early settlement to the present. May be offered concurrently at the graduate level as AH 555.

**AH 363 Modern Architecture and Urban Design (4)**

The development of architecture and urban design in Europe and the United States from the Industrial Revolution, ca. A.D. 1750, to the present.

Prerequisite: AH 101.

**AH 364 Nineteenth-Century Art (4)**

The development of sculpture, painting and printmaking in the western world from the French Revolution to A.D. 1900.

Prerequisite: AH 101.

**AH 365 Twentieth-Century Art (4)**

The development of sculpture, painting and related media in the western world from A.D. 1900 to the present.

Prerequisite: AH 101.

**AH 366 History of Photography (4)**

The development of still photography as an art and its relationship to other visual arts since ca. A.D. 1830.

**AH 367 Film and the Visual Arts (4)**

The relationship between films and various plastic arts such as still photography, sculpture and painting, as they reflect some twentieth-century artistic movements (op art, surrealism, cubism, expressionism, etc.)

**AH 370 The Graphic Arts (4)**

The graphic arts in Europe and America from ca. 1450 to ca. 1900, including printmaking techniques, collecting and conservation. Students will work with original prints.

Prerequisite: AH 100 and AH 101.

**AH 380 Museology and Patronage (4)**

The study of modern museums (collections, conservation, organization), historical societies, corporate patronage and private collecting. The course format will include illustrated lectures and field trips.

Prerequisite: 16 credits in art history of which at least 8 must be at the 300-400 level.

**AH 390 Topics in Art History (4)**

Specific topics in art history for which no regular course offerings exist. Topic, instructor and prerequisite will be announced before each offering.

Prerequisite: Permission of instructor.

**AH 391 Readings in Art History (2)**

Specific readings projects in art history, art criticism, connoisseurship and conservation. May be repeated in a subsequent semester under a different instructor for a total of 4 credits.

Prerequisite: 16 credits in art history of which at least 8 must be at the 300-400 level; and permission of instructor.

**AH 399 Field Experience in Art History (4)**

Field experience in art history under faculty supervision. An academic project which incorporates student performance in an occupational setting. May not be repeated for credit or taken by students who have received credit for SA 399.

Prerequisite: 16 credits in art history, of which at least 8 must be at the 300-400 level; and permission of instructor.

**AH 480 The Bibliography and Methodology of Art History (4)**

The history and criticism of art as disciplines from classical antiquity to the present, with emphasis on the principal approaches to the study of art since A.D. 1500. Students will read selections from the major contributors to these disciplines.

Prerequisite: 12 credits of art history.

**AH 490 Problems in Art History (4 or 8)**

Seminar in specific subject areas of, or approaches to, art history. May be taken in different semesters under different instructors for a total of 8 credits or, with permission of instructor and department chairperson, may be taken in one semester for a total of 8 credits.

Prerequisite: 12 credits of art history.

**AH 491 Directed Research in Art History (4 or 8)**

Directed individual research for advanced art history majors.

Prerequisite: Permission of instructor.

**STUDIO ART**

The departmental program of study leading to the Bachelor of Arts degree with a liberal arts major in studio art has been suspended, and no new candidates for this major will be accepted. The department will continue to offer courses in studio art, as well as the liberal arts minor in studio art. Studio art courses are offered as general electives for all students and as a complement to the art history program.

**SA 100 Drawing, Painting and Visual Thinking (4)**

Exploration of the possibilities of translating observations into visual structures, including drawings from nature. Emphasis is on process rather than product. Theory and historical background will be given.

**SA 101 Introduction to Sculpture (4)**

Exploration of the methods and theories used in creating three dimensional structures.

**SA 107 Drawing Skills I (4)**

Introduction to the tools and methods of drawing as a means to observe the physical world accurately and to develop visual ideas more clearly. Emphasis is on skill development.

**SA 200 Basic Studio I (4)**

Continuation of SA 100 with more emphasis on conceptualization. Continues to deal with the process of creating structures, but the product will be more important than in SA 100.

Prerequisite: SA 100 or SA 101 or SA 107.

**SA 209 Painting I (4)**

Introduction to painting, its technique, history and expressive possibilities. Includes the making of and experimentation with paint.

Prerequisite: SA 100 or SA 101 or SA 107.

**SA 214 Sculpture II (4)**

Continuation of SA 101.

Prerequisite: SA 100 or SA 101 or SA 107.

**SA 215 Weaving and Tapestry (4)**

Basic weaving techniques involving loom-woven fabrications.

**SA 266 Photography**

Basic black and white picture taking, film processing and darkroom procedure. Concepts and techniques of photography.

**SA 307 Drawing Skills II (4)**

Continuation of SA 107. Emphasis is on translation of visual ideas from drawing into other media. May be taken in different semesters for a total of 8 credits.

Prerequisite: SA 100 or SA 101 or SA 107.

**SA 309 Intermediate Painting (4)**

Treats the problem-solving possibilities of painting, the expressive potential unique to the individual, and the relationship of these factors to contemporary issues.

Prerequisite: SA 100 or SA 101 or SA 107.

**SA 314 Intermediate Sculpture (4)**

Treats the problem-solving possibilities of sculpture, the expressive potential unique to the individual, and the relationship of these factors to contemporary issues.

Prerequisite: SA 100 or SA 101 or SA 107.

**SA 321 Silk-Screen Printing (4)**

Multi-color silk-screen printing, methodology and techniques.

Prerequisite: SA 100 or SA 101 or SA 107.



**SA 322 Photo Silk-Screen (4)**  
Methodology and techniques of photo silk-screen printing.  
Prerequisite: SA 100 or SA 101.

**SA 391 Projects in Studio Art (2)**  
Specific projects in studio art for which no regular offerings exist. Projects, instructor and prerequisite will be announced before each offering.  
Prerequisite: Permission of instructor.

**SA 399 Field Experience in Studio Art (4)**  
Field experience in studio art under faculty supervision. An academic project which incorporates student performance in an occupational setting. May not be repeated for credit or taken by students who have received credit for AH 399.  
Prerequisites: 16 credits in studio art, of which at least 8 must be at the 300 level.

**SA 490 Special Problems in Studio Art: Independent Studies (4)**  
Independent investigation of specific problems in the visual arts including their relationships with other disciplines. May be taken for a maximum of 8 credits.  
Prerequisite: Permission of instructor.

# DEPARTMENT OF BIOLOGICAL SCIENCES

**Chairperson:** *Nalin J. Unakar*

**Professors:** *Francis M. Butterworth, Egbert W. Henry, Virinder K. Moudgil, Asish C. Nag, John R. Reddan, Arun K. Roy, Nalin J. Unakar*

**Associate professors:** *John D. Cowlshaw, George J. Gamboa, Esther M. Goudsmit, R. Douglas Hunter, Paul A. Ketchum, Charles B. Lindemann*

**Assistant professors:** *Keith A. Berven, Sheldon R. Gordon, Thaddeus A. Grudzien, Feona M. Hansen-Smith, Satish K. Walia, Jon A. Yates*

**Adjunct professors:** *Clifford V. Harding, Charles M. McGrath, M. Dave Poulak, James R. Wells*

**Consulting professor of biomedical and health sciences:** *Julius Rutzky*

The Department of Biological Sciences offers programs of study leading to Bachelor of Arts, Bachelor of Science and Master of Science degrees. The undergraduate programs prepare students for graduate study in the life sciences; laboratory work and research in industries concerned with biological materials; and professional careers in medicine, dentistry, nursing or other allied health areas. This liberal arts program in biology is particularly suited to the needs of premedical students. For information on graduate study within the department, see the *Oakland University Graduate Catalog*.

The department offers a diversified selection of courses and research programs in biochemistry, botany, cell biology, developmental biology, ecology, evolutionary biology, genetics, microbiology, morphology, physiology, plant physiology and zoology. Students select courses that suit their goals and interests. With permission, they may elect to participate in the research laboratories of individual faculty members, for which they may receive course credit (BIO 490). In the past, many such students have appeared as co-authors on scientific publications as a result of the work in which they participated. Such opportunities are of particular value to students preparing for graduate study or research positions. Since modern biology requires physicochemical insight, training in chemistry, physics and mathematics is also required.

## **Admission to major standing**

To be eligible for a major in biology, students must be admitted to major standing by the Department of Biological Sciences at least three semesters before graduation. This procedure ensures that an appropriate program of study is completed by graduation. Students may be admitted to major standing after filing a satisfactory curriculum plan and completion of one year of introductory biology plus two other BIO courses, one year of general chemistry and mathematics through MTH 141.

## **Requirements for the liberal arts major in biology, B.A. program**

This curriculum is designed for students intending to incorporate a biology major into a broader liberal arts program in pursuit of careers in technical fields or business or post-graduate study. Students in the B.A. curriculum who wish to apply to medical or dental schools are advised to complete the concentration in preprofessional studies (see page 187 of this catalog). Students interested in a secondary teaching major in the biological sciences should consult the chairperson or the chief academic adviser of the department.

Forty credits in biology (BIO 190 and above) are required, including at least seven lecture courses. These must include BIO 190, 195, 200 and one course from three of the following areas:

1. Physiology (BIO 207, 321 or 333)
2. Biochemistry (BIO 325)
3. Morphology (BIO 205, 305, 313 or 323)
4. Genetics (BIO 341 or 387)
5. Ecology (BIO 301)

Students must also, in consultation with their biology adviser, select at least one course in organismic biology (botany, BIO 303, 311, 327 or 373; zoology, BIO 317 or 353; or microbiology, BIO 319) and at least one three- or four-credit 400-level lecture course (BIO 405, 455, 490 and 497 cannot be used to satisfy this requirement). Corresponding lecture and lab courses should normally be taken simultaneously. In addition, 14 credits of chemistry (CHM 144-145, 149, 203 or 234 or 201) and 10 credits of physics (two semesters of general physics and lab) and mathematics through MTH 141 plus one of the following — MTH 122, MTH 154, STA 225, STA 226 — are required. One semester of computer programming (CSE 130) is recommended as an elective.

### Requirements for the major in biology, B.S. program

This curriculum is designed for students who wish to pursue a career in the sciences, including medicine and health-related fields.

Forty credits in biology (BIO 190 and above) are required, including at least seven lecture courses and a minimum of four BIO laboratory courses. These must include BIO 190, 195 and 200, and one course from three of the following areas:

1. Physiology (BIO 207, 321 or 333)
2. Biochemistry (BIO 325)
3. Morphology (BIO 205, 305, 313 or 323)
4. Genetics (BIO 341 or 387)
5. Ecology (BIO 301)

Students must also, in consultation with their biology adviser, select at least one course in organismic biology (botany, BIO 303, 311, 327 or 373; zoology BIO 317 or 353; or microbiology BIO 319) and at least one three- or four-credit 400-level lecture course (BIO 405, 455, 490 and 497 cannot be used to satisfy this requirement). Corresponding lecture and lab courses should normally be taken simultaneously. In addition, two years of chemistry (CHM 144-145, 149, 234-235 or 203-204, and 209) and one year of physics (PHY 101-102, 158; or 151-152 and 158 depending on MTH option) are required. Mathematics is required through MTH 141 plus one of the following options: MTH 154 and 155; STA 226 and either 322, 323 or 324; and MTH 122 and either STA 225 or 226.

One semester of computer programming (CSE 130) is recommended as an elective. Finally, in addition to the formal course requirements, the student must complete a senior paper based either on research performed under BIO 490, or a literature search of a research-oriented topic taken as BIO 405.

### Requirements for departmental honors in biology

Departmental honors may be granted to students who have been nominated by a faculty member on the basis of high academic achievement and excellence in either independent research or teaching assistance.

The specific requirements are:

1. 3.20 grade point average (GPA) minimum overall and 3.50 GPA minimum in BIO courses
2. At least one 400-level BIO lecture course (BIO 405, 455, 490 and 497 do not qualify)
3. Excellence in one of the following two service roles:
  - a. Assisting in teaching a laboratory course(s) — either for pay or credit
  - b. Performing independent laboratory study or serving as a laboratory research assistant

### **Requirements for a modified major in biology (B.S.) with a specialization in anatomy**

**Adviser:** *Asish C. Nag*

Students should elect this specialization in their sophomore year. Biology courses required for the anatomy specialization are: BIO 205, 206, 305, 306, 317, 323, 324, 429, 430, 445, 446 and 460. The selection of all courses should be planned by consultation with the adviser.

### **Requirements for a modified major in biology (B.S.) with a specialization in microbiology**

**Adviser:** *Paul A. Ketchum*

Students may elect this specialization in their sophomore or junior year. Biology courses required for the microbiology specialization are: BIO 319, 320, 421, 422, 433 and 434. The selection of all courses should be planned in consultation with the adviser.

### **Requirements for the modified major in biology with a concentration in applied statistics**

**Adviser:** *Keith A. Berven*

This concentration is open to students pursuing either a Bachelor of Arts or a Bachelor of Science degree in biology. Students should elect this concentration in their sophomore year. Required courses are STA 226, 322 and either 323 or 324, as well as BIO 490 (4 credits).

### **Concentration in preprofessional studies in medicine, dentistry and optometry**

**Adviser:** *Egbert W. Henry*

The Bachelor of Science degree with a major in biology provides students with all the requirements for a concentration in preprofessional studies; however, refer to page 184 for suggestions regarding course selection. Students in the Bachelor of Arts degree program will need two semesters of organic chemistry and laboratory in addition to their other science requirements.

### **Biochemistry program**

In cooperation with the Department of Chemistry, the Department of Biology offers a Bachelor of Science degree program with a major in biochemistry (see page 177).

### **Requirements for the liberal arts minor in biology**

Students in other departments who wish to minor in biology must take a minimum of 20 credits in biology, including BIO 190, 195 and 200. At least 8 credits must be taken in courses numbered 301 or above. Students majoring in other life science areas should read the restrictions on dual use of courses to satisfy both major and minor requirements as noted on page 47).

### **Requirements for the secondary teaching minor in biology**

Twenty credits in biology (from BIO 190 and above) are required for the secondary teaching minor in biology.

## **Course Offerings**

The following courses are designed particularly for non-science majors and are not counted toward major or minor requirements.

#### **BIO 104 Human Biology (4)**

Introduction to human biology with emphasis on human anatomy and physiology. Topics include cell biology, skeletal, muscular, digestive, cardiovascular, neural, hormonal and reproductive systems. *Satisfies the university general education requirement in natural science and technology.*

**BIO 110 Life on Earth (4)**

A survey course on the history of nature. The evolutionary emergence of plant and animal life from unicellular to multicellular organisms and eventually to humans is presented through lectures, text readings and films. Satisfies the university general education requirement in natural science and technology.

**BIO 300 Biology and Society (4)**

The major concepts of modern biology which would serve as a foundation for the well-educated non-scientist, including evolutionary biology, molecular and cellular biology, genetic and medical interventions, the biological bases of behavior and social organization, and the effects of biological and chemical pollutants. Satisfies the university general education requirement in natural science and technology.

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

**BIO 190 Biology (4)**

Introduction to the structure and function of plants and animals; nutrient acquisition, gas exchange, internal transport, excretion, chemical and nervous control, reproduction, behavior, ecology, evolution, a synopsis of the major phyla.

Offered fall and winter semesters. Satisfies the university general education requirement in natural science and technology.

**BIO 195 Biology Laboratory (1)**

Laboratory and field experience emphasizing scientific method, scientific writing, Mendelian genetics, vertebrate anatomy and animal and plant diversity. To accompany BIO 190 or 200.

**BIO 200 Biology (4)**

Cell ultrastructure, enzymology, metabolism, genetics, cell division. A year of high school chemistry and/or CHM 140 is strongly recommended. May be taken before BIO 190. Offered fall and winter semesters. Satisfies the university general education requirement in natural science and technology.

**BIO 205 Human Anatomy (4)**

The integration of organs into systems and systems into the organism. Selected aspects of developmental, comparative and microanatomy also will be discussed. Relevant to students in health sciences, biological science and liberal arts studies.

Prerequisite: BIO 200.

**BIO 206 Human Anatomy Laboratory (1)**

To accompany BIO 205.

**BIO 207 Human Physiology (4)**

A detailed study of general physiological principles and mechanisms with emphasis on systemic physiology. Normal physiology of individual organ systems will be explored, with stress on the role each plays in the human homeostatic balance.

Prerequisite: BIO 200.

**BIO 250 Biology of Aging (4)**

Introduction to the phenomenon of aging at both cellular and organ levels. Topics include roles of nutrition, exercise, drugs, diseases, hormones and theories of aging. Offered winter semester alternate years.

Prerequisite: One semester of introductory biology.

**BIO 300 Biology and Society (4)**

See description above under nonmajor courses.

**BIO 301 Ecology (5)**

Basic ecological concepts, energy and materials flow, growth and regulation of populations, community interactions, chemical ecology and environmental biology. Includes laboratory experience. Offered fall semester.

Prerequisite: BIO 190, 195, 200.

**BIO 303 Field Biology (4)**

An ecologic and taxonomic study of the flora and fauna of Oakland University's setting. Aims include competence in use of illustrated handbooks and keys, and skills in collecting, preserving and identifying.

Prerequisite: BIO 190, 195.

**BIO 305            Histology (4)**

The microscopic anatomy and histochemistry of vertebrate tissues and organs in relation to tissue function.  
Prerequisite: BIO 190, 200.

**BIO 306            Histology Laboratory (2)**

To accompany BIO 305.

**BIO 307            Introduction to Medical Microbiology (4)**

Introduction to the biology of microorganisms emphasizing the infectious diseases they cause and their control. Bacterial, mycotic, protozoan, viral infections; immunology; epidemiology; pathogenic mechanisms; chemotherapy; microbial genetics; microbial growth; microbial physiology. Required of students in the nursing program. Not open to students who have taken BIO 319.

Prerequisite: BIO 200.

**BIO 311            Botany (5)**

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. Includes laboratory experience.

Prerequisite: BIO 190, 195, 200.

**BIO 313            Plant Morphology (5)**

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. Includes laboratory experience.

Prerequisite: BIO 190, 195, 200.

**BIO 317            Vertebrate Zoology (5)**

A comparative study: gross and histological anatomy, taxonomy, unique physiological adaptations to habitats, evolution and paleontology. Includes laboratory experience.

Prerequisite: BIO 190, 200.

**BIO 319            General Microbiology (4)**

Microbial metabolism, growth, genetics, molecular biology, genetic engineering, classification, aseptic techniques, host-parasite relationships, a survey of human bacterial and viral pathogens. The impact of non-pathogenic microbes on natural processes is emphasized. Not open to students who have taken BIO 307.

Prerequisite: BIO 200, CHM 145.

**BIO 320            General Microbiology Laboratory (1)**

The techniques for growing, isolating, handling and identifying microbes.

To accompany BIO 319.

**BIO 321            Physiology (4)**

A detailed study of physiological principles; the internal environment, bioenergetics, transport, osmoregulation, respiration, conduction, contraction and circulation.

Prerequisite: BIO 190, 200.

**BIO 322            Anatomy and Physiology Laboratory (1)**

A detailed study of vertebrate anatomy and physiology. To accompany BIO 321.

**BIO 323            Developmental Biology (4)**

Topics include: gametogenesis, fertilization, morphogenesis, differentiation, organogenesis, regeneration. Each topic is examined from the morphological to the molecular level.

Prerequisite: BIO 190, 200. Highly recommended: BIO 324.

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

A series of observations and experimental exercises on a variety of organisms designed to expose the student to basic patterns of development, embryonic structures and techniques to analyze developmental processes.

Corequisite: BIO 323.

**BIO 325            Introductory Biochemistry (4)**

The principles and techniques of molecular biology which are basic to discussions in the intermediate and advanced courses. Topics include: structure and function of macromolecules, cellular organization, biological energy, molecular genetics.

Prerequisite: BIO 200 and one year of general chemistry. CHM 201 or 203 recommended.

**BIO 326      Introductory Biochemistry Laboratory (1)**

To accompany BIO 325. Enzyme purification and kinetics, qualitative and quantitative analysis of biomolecules. Extraction of DNA from *E. coli*.

Prerequisite: At least 2 BIO lab courses; organic chemistry highly recommended.

**BIO 327      Dendrology (4)**

The study of trees and shrubs; their identification, biology and ecology, the importance of woody plants to people. Includes laboratory experience.

Prerequisite: BIO 190 or 200.

**BIO 333      Plant Physiology (4)**

Hormonal relationships, inorganic nutrition, water relations, metabolism, photosynthesis and tropisms.

Prerequisite: BIO 190, 200.

**BIO 334      Plant Physiology Laboratory (1)**

Corequisite: BIO 333.

**BIO 341      Genetics (4)**

The physical and chemical basis of inheritance. Selected topics in human genetics, microbial genetics, biochemical genetics, molecular biology and cytogenetics. Two lab options are available; see BIO 342 and 345.

Prerequisite: BIO 190, 200. BIO 325 recommended.

**BIO 342      Genetics Laboratory (1)**

A series of short experiments to demonstrate basic genetic principles.

Corequisite: BIO 341.

**BIO 345      Experimental Genetics (2)**

An innovative approach to learning genetics. The student working on an individual research project not only will learn some basic principles of genetics but also will obtain preliminary experience in biological research.

Corequisite: BIO 341.

**BIO 351      Neurobiology (4)**

Topics include nerve excitation, synaptic transmission, spinal cord functions, cerebral cortical activity, sleep and consciousness, biochemical and pharmacological properties of nerve cells.

Prerequisite: BIO 190, 200. CHM 145.

**BIO 353      Animal Behavior (4)**

The genetics, physiology, ecology and evolution of animal behavior. Emphasis is on social behavior, especially the behavior of social insects.

Prerequisite: Sophomore standing.

**BIO 354      Animal Behavior Laboratory (1)**

A field-oriented course to acquaint students with experimental design, quantitative data retrieval and data analysis. A large part of the course will consist of an independent behavioral field study supervised by the instructor.

Prerequisite: Sophomore standing. Corequisite: BIO 353.

**BIO 355      Seminar (1)**

Discussion of recent publications in the biological sciences.

**BIO 365      Medical Parasitology and Mycology (3)**

An introduction to the medically important mycotic, protozoal and helminthic parasites; morphology, biology; life cycles, clinical manifestations, pathogenesis, immunology, epidemiology and control.

Prerequisite: BIO 190 or equivalent.

**BIO 366      Medical Parasitology and Mycology Laboratory (1)**

Laboratory methods for identification of the medically important protozoan and helminthic parasites.

Corequisite: BIO 365.

**BIO 373      Field Botany (4)**

A local flora course in identifying vascular plants occurring naturally in Michigan. Emphasis is on flowering plants, although ferns and coniferous species are also treated. Includes field trips to representative natural areas in southeast Michigan.

Prerequisite: BIO 190, 200.

**BIO 375**      **Limnology (2)**

An introduction to freshwater biology; lake classification, biogeochemical cycles, lake and stream ecology, seasons, flora and fauna, plankton and benthos, lake origins and evolution. Offered every other winter.  
Prerequisite: BIO 190, 200.

**BIO 377**      **Marine Biology (2)**

Flora and fauna of the shore and open ocean, ocean seasons, tides, food webs, adaptations, feeding, locomotion, community interactions, fisheries biology and aquaculture. Offered every other winter.  
Prerequisite: BIO 190, 200.

**BIO 381**      **Gross Human Anatomy (4)**

Combined lectures and laboratories primarily for upper-level health science majors. Study of human body systems with emphasis on the musculoskeletal system; morphological correlate of human physiological functions; dissection of cadaver.  
Prerequisite: BIO 321 and permission of instructor.

**BIO 387**      **Evolution and Systematics (4)**

Exploration of the processes of evolution and their past and current influence on organisms of today. Topics include origin of variability, natural selection, differentiation of populations, speciation, phylogenetic concepts, evolutionary ecology and sociobiology.  
Prerequisite: BIO 190, 200. BIO 341 recommended.

**BIO 393**      **Endocrinology (4)**

The interrelationship of various endocrine systems with vertebrate physiology; examination of control processes, the mechanism of hormone action, the role of hormones in cancer, reproduction, differentiation, growth.  
Prerequisite: BIO 321, 325 or permission of instructor. Offered winter semester alternate years.

**BIO 394**      **Endocrinology Laboratory (2)**

To accompany BIO 393. Individual research projects.  
Prerequisite: Permission of instructor.

**BIO 399**      **Field Experience in Biology (4)**

Field experience in biology with faculty supervision which incorporates student performance in an occupational setting.  
Prerequisite: 16 credits in biology of which 8 must be at the 300-400 level.

**BIO 401**      **Advanced Human Physiology (4)**

Lectures and discussion emphasizing the human organism and the experimental basis for current concepts and techniques. Topics include: reproduction, circulation, respiration, electrophysiology, and cellular mechanisms in physiological processes.  
Prerequisite: BIO 207 or 321.

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

Prerequisite: Permission of instructor.

**BIO 407**      **Cellular Biochemistry (4)**

Advanced discussion of cellular control mechanisms emphasizing recent developments in the biochemistry of proteins and nucleic acids.  
Prerequisite: BIO 325, CHM 204 and PHY 102.

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

Modern research techniques; chromatography (paper, column, thin layers, etc.), electrophoresis, immunoelectrophoresis, ultracentrifugation and cell fractionation, isolation and density gradient analysis of the nucleic acids, etc. To accompany BIO 407.

**BIO 421**      **Medical Microbiology (4)**

Bacterial and viral human pathogens, emphasizing their etiology, physiology, pathogenesis, epidemiology, control and diagnosis.  
Prerequisite: BIO 200.

**BIO 422**      **Medical Microbiology Laboratory (2)**

Basic skills of handling pathogenic bacteria and their diagnosis.  
Prerequisite: BIO 421 with a minimum grade of 2.0.



**BIO 423 Immunology (3)**

The human immune system. Topics include antigens, antibodies, immunophysiology, serology, immunochemistry, immunobiology, immunogenetics, hypersensitivity, immunities to infectious agents and disorders of the immune system.

Prerequisite: BIO 207 or BIO 321.

**BIO 425 Biophysics (4)**

The physical basis of biological phenomena, and the nature of biophysical theories. Biological structure and function are studied in the context of the hierarchical, cybernetic systems theory. Offered winter semester of alternate years.

Prerequisite: BIO 325 or equivalent, calculus and general physics.

**BIO 426 Biophysics Laboratory (1)**

Mathematical modeling of biological phenomena, using microcomputers.

Corequisite: BIO 425.

**BIO 429 Cytochemistry (3)**

A survey of techniques currently used in microscopy to analyze the distribution and quantity of specific chemicals within cells and their organelles. Techniques include: specific staining reactions, enzyme digestion, metabolic inhibition and autoradiography.

Prerequisite: BIO 305 and 306. Corequisite: BIO 430.

**BIO 430 Cytochemistry Laboratory (2 or 3)**

Individual research projects using cytochemical techniques to study and compare chemical compositions of several types of cells.

Corequisite: BIO 429.

**BIO 433 Advanced Microbiology (3)**

The application of biochemical principles to the study of bacterial physiology, structure and function. The diversity of bacterial species, their classification and microbial ecology are emphasized.

Prerequisite: BIO 319 and CHM 203.

**BIO 434 Advanced Microbiology Laboratory (2)**

Selective enrichment, isolation and characterization of microorganisms from natural sources.

Corequisite: BIO 433.

**BIO 435 Developmental Genetics (4)**

Modern aspects of genetics derived from molecular and microbial systems and their application to problems of development in multicellular organisms. Topics include gene structure, gene regulation, recombinant DNA and immunogenetics.

Prerequisite: BIO 341 and 325 or equivalent.

**BIO 436 Developmental Genetics Laboratory (1)**

To accompany BIO 435.

**BIO 439 Biochemistry of the Gene (4)**

Biochemistry and expression of the eukaryotic gene with emphasis on recent developments in gene cloning, expression of cloned genes, and applications of recombinant DNA technology in biology and medicine.

Prerequisite: BIO 407 or CHM 453.

**BIO 440 Biochemistry of the Gene Laboratory (2)**

Laboratory exercises and short projects involving nucleic acids and protein synthesis. Specific experiments include isolation and characterization of RNA and DNA, translation of mRNA and enzymology of nucleic acids.

Corequisite: BIO 439.

**BIO 441 Microbial Genetics (4)**

Microbial genetics, emphasizing the basic aspects of bacteriophage and plasmid genetics applied to biotechnology.

Prerequisite: BIO 341 or BIO 319 or permission of instructor.

**BIO 445 Ultrastructure (4)**

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

Prerequisite: BIO 305 and permission of instructor.

**BIO 446 Ultrastructure Laboratory (2)**

To accompany BIO 445.

**BIO 460 Neuroanatomy (4)**

The brain, brain stem, spinal cord and associated structures with respect to their morphology, development, function and the integration of these functions in motor activity. Certain lesions and their clinical significance will be discussed.

Prerequisite: BIO 205 or 381 or permission of instructor.

**BIO 463 Cell Biology (4)**

Prerequisite: BIO 305 and permission of instructor.

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

To accompany BIO 463.

**BIO 481 Topics in Physiological Ecology (3)**

Physiological responses of individual organisms and populations to their environment, including regulation of the internal environment, reproductive strategies, bioenergetics and chemical ecology.

Prerequisite: One course in physiology or ecology.

**BIO 482 Topics in Evolutionary Biology (3)**

Advanced topics in evolutionary biology including evolutionary patterns, the nature of selection, adaptation, macroevolution, the application of molecular biology to evolution, and philosophical issues of evolution.

Prerequisite: One course in either ecology, behavior or evolution, or permission of instructor.

**BIO 483 Topics in Community and Population Biology (3)**

Analytic and synthetic approaches to the biology of populations and communities utilizing both plant and animal studies. Topics will include population growth and regulation, competition, predator-prey interactions, community structure and species diversity.

Prerequisite: One course in ecology, evolution, or permission of instructor.

**BIO 484 Topics in Behavioral Biology (3)**

The ecology, evolution, genetics, and physiology of behavior, especially social behavior. Topics will include kin recognition, mate choice, dominance hierarchies, and the mechanisms by which societies are organized.

Prerequisite: BIO 353.

**BIO 490 Independent Research (2, 3 or 4)**

Directed undergraduate research in laboratory, field or theoretical biology. May be taken more than once. Graded numerically or S/U by written arrangement with biology faculty supervisor. A maximum of 8 credits may be numerically graded.

Prerequisite: Written agreement with a biology faculty supervisor.

**BIO 497 Apprentice College Teaching (2)**

Assisting in presenting a course, usually a laboratory course, to undergraduates. May be taken more than once.

Prerequisite: Written agreement with a biology faculty supervisor.

# DEPARTMENT OF CHEMISTRY

**Chairperson:** Paul Tombouliau

**Professors:** Gottfried Brieger, Denis M. Callewaert, George Dahlgren, Isaac Eliezer, Kenneth M. Harmon, Joel W. Russell, Peter Schmidt, Michael D. Sevilla, R. Craig Taylor, Paul Tombouliau

**Associate professors:** Bandana Chatterjee, Julien Gendell, Tadeusz Malinski, Steven R. Miller, Kathleen Moore, Robert L. Stern

**Assistant professors:** Paul A. Pappalardo, Mark Severson

**Adjunct professor:** Philip Weiss

**Lecturers:** William Bradford, Gerald G. Compton, Edward Kerfoot, Daniel Steinmetz, Stephen Tackitt, Douglas Thiel, David Van Lewen

Oakland University's chemistry programs offer students the laboratories and equipment typically found at larger universities while retaining strong emphasis on the undergraduate education and informal student-faculty relations characteristic of smaller liberal arts colleges. Additionally, research opportunities are available to qualified undergraduates.

The Department of Chemistry provides highly professional chemistry programs as well as the liberal arts dedication to developing the highest intellectual and creative potential of its students. The department offers programs of study leading to Bachelor of Arts, Bachelor of Science and Master of Science degrees.

## Planning a program in chemistry

Curricula leading to a major in chemistry are quite structured, since knowledge is developed cumulatively in a four-year sequence. This leads to a fairly prescribed order of course presentation with a number of specific course requirements. Students interested in pursuing a program of study in chemistry should consult with a departmental adviser and file a program plan as early as possible in their college career.

## Admission to major standing

To be eligible for a major in chemistry, students should be admitted to major standing by the department at least three semesters before graduation. Admission to major standing and the accompanying program certification guarantee that the student's program plan will meet the requirement for the Bachelor of Arts and Bachelor of Science degrees.

Students may apply through the department office or a faculty adviser. Students may be admitted to major standing after filing a satisfactory curriculum plan and completion of 30 total credits in chemistry, physics and mathematics, including CHM 234, 237, MTH 155 and PHY 151, with a grade point average of 2.00 or better.

Course work more than ten years old is subject to re-evaluation by the department. An examination may be required to demonstrate proficiency in areas covered by such courses.

## Core curriculum

The core courses for the Bachelor of Arts and Bachelor of Science degrees consist of CHM 144-145, 149, 225, 234-235, 237, 238, 342-343, 348 and two semesters of CHM 400. Also included in the core are MTH 154-155, PHY 151-152 and CSE 130.

### Requirements for the liberal arts major in chemistry, B.A. program

This curriculum is for students who wish to incorporate a science major into a broader liberal arts program, or who wish a foundation in chemistry as a basis for study in chemical physics, medicine and related fields, environmental studies and technical-legal or technical-business careers. Students interested in sales or management careers in the chemical industry might consider taking the minor in management offered by the School of Business Administration.

Forty-one credits in chemistry and admission to major standing are required for the Bachelor of Arts degree, including the core curriculum plus 5 additional credits in CHM courses at the 400 level or above, at least 2 of which are laboratory credits. Students interested in a secondary teaching major in chemistry should consult the chairperson or the chief adviser of the department.

### Requirements for the major in chemistry, B.S. program

The Bachelor of Science degree with a major in chemistry consists of the core curriculum plus a set of advanced courses. The program can provide the graduate with American Chemical Society certification (see requirements under "American Chemical Society certification" on page 67 of this catalog).

The requirements for the major in chemistry are admission to major standing and a minimum of 48 credits in chemistry, consisting of the core curriculum and an advanced course program.

In selecting advanced courses, students may tailor their programs to fit specific career objectives, such as industrial chemistry, biochemistry, graduate study, research, medicine or dentistry. Students should plan their programs in consultation with a faculty adviser; advanced course programs must be approved as part of the application for major standing. In addition to the core curriculum, the B.S. degree requires 12 additional credits in CHM courses at the 400 level or above, at least two of which are laboratory credits. Also, four or more credits of BCM, BIO, APM, MTH, STA or PHY courses numbered above 250 are required.

### Research

The Department of Chemistry offers exceptional opportunities year-round for interested and qualified students to participate in faculty research. Course credit for research may be earned in CHM 290 and 490. In addition, employment opportunities or fellowships are often available. Such research experience is of particular value to students preparing for graduate study or industrial employment.

Students should feel free to discuss research opportunities with members of the chemistry faculty. Specific arrangements with an individual faculty member must be made before enrollment in CHM 290 or 490.

CHM 490 credits cannot be counted as elective credits toward a chemistry major except by petition in exceptional cases.

### Departmental honors

Departmental honors may be awarded to graduating seniors in chemistry who have been recommended for honors by their research advisers and have completed all required science courses with high grades.

### Advanced courses in chemistry

Chemistry majors take one or more advanced courses in areas of interest. In addition to the courses listed in this catalog, the following advanced courses are open to qualified undergraduates: CHM 521 and 522 ("Advanced Analytical Chemistry" and "Topics in Analytical Chemistry"), CHM 534 and 535 ("Advanced Organic Chemistry" and "Topics in Organic Chemistry"), CHM 540 ("Symmetry in Chemistry"), CHM 541 and 542 ("Advanced Physical Chemistry" and "Topics in Physical Chemistry"), CHM 553 and 554 ("Advanced Biochemistry" and "Topics in Biochemistry"), CHM 563 and 564 ("Advanced Inorganic Chemistry" and "Topics in Inorganic Chemistry"). (See the *Oakland University Graduate Catalog* for course descriptions.)

### Biochemistry program

In cooperation with the Department of Biology, the Department of Chemistry offers a Bachelor of Science degree with a major in biochemistry (see page 177). Courses used to fulfill the requirements for a major in biochemistry may not be used simultaneously to fulfill the requirements for a major or minor in chemistry.

### Requirements for the liberal arts minor in chemistry

Students in other departments who wish to minor in chemistry must take CHM 144-145, 149, 203-204 (or 234-235), 225 and 342. A minimum of 8 credits in chemistry must be earned at Oakland University.

### Requirements for the secondary teaching minor in chemistry

Twenty credits in chemistry courses are required for the secondary teaching minor in chemistry. These must include CHM 144, 145 and 149, plus 10 credits of CHM courses numbered at the 200 level or above. A choice from CHM 203, 204, 209, 225, 234, 235, 237, 238, 342, 343 and 348 is recommended.

### Concentration in preprofessional studies in medicine, dentistry and optometry

Students can take a concentration in preprofessional studies by adding the required biology courses to a regular chemistry major program. Students should consult a departmental adviser before planning this concentration.

### Engineering chemistry program

**Coordinator:** Mark Severson

The program in engineering chemistry, which is offered by the Department of Chemistry in cooperation with the School of Engineering and Computer Science, leads to the Bachelor of Science degree with a major in engineering chemistry. It is intended for well-qualified students who seek a basic preparation in engineering along with a highly professional chemistry program.

Program requirements\* for the Bachelor of Science in engineering chemistry include:

1. MTH 154-155, MTH 254, APM 257 and PHY 151-152
2. CHM 144-145, CHM 149, CHM 234-235, CHM 237, CHM 342-343, CHM 348 and CHM 471; choice of six credits from CHM 462-463, CHM 470, CHM 472 or CHM 477
3. EGR 101, EGR 401, CSE 132, CSE 171, EE 222, ME 221, ME 241, ME 331 and SYS 325; choice of eight credits from ME 438, ME 448, ME 449, ME 456, ME 482 and SYS 431.

In addition to the previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.00 in the courses taken to satisfy the engineering and chemistry requirements and in the courses prescribed for the mathematics, physics and computer science requirements. For limitations on free electives see page 228.

### American Chemical Society certification

The Department of Chemistry's faculty members, facilities and curriculum meet the criteria of the American Chemical Society. This allows the department to certify chemistry students as eligible for society membership. Certification is granted to students who have successfully completed the requirements for the Bachelor of Science degree with a major in chemistry, including CHM 426 and CHM 462-463.

\*Students within this program are not required to complete the college distribution described on page 44.

## Placement in introductory chemistry courses

The various introductory courses (CHM 104, 140, 144 and 164) are for students in different majors and with different levels of mathematical and physical sciences preparation. In order to assure the best choice of course, each student must take the Chemistry Placement Test before registering for any of these courses. Placement is based on the test results, student's declared major and high school science and mathematics experience. Students should consult the department office or the *Schedule of Classes* for additional details, test dates and times.

## Course Offerings

The following course is designed particularly for non-science majors, and is not counted toward major or minor requirements.

### CHM 110 Chemistry in the Modern World (4)

Designed for students without science background who seek an understanding of the chemical nature of our world. Both historical and current applications are considered. *Satisfies the university general education requirement in natural science and technology.*

*The following courses are designed particularly for the chemistry major and minor, and for other students in science and engineering. Credit will not be allowed for more than one course from each of the following pairs: CHM 209 and 237, 203 and 234, 204 and 235. Credit will not be allowed in major and minor programs in chemistry, biology or physics for CHM 104, 110, 140, 201 and 497.*

### CHM 104 Introduction to Chemical Principles (4)

CHM 104-201 constitutes a complete two-semester sequence in general, organic and biological chemistry. Recommended preparation is two years of high school mathematics, including algebra and one year of high school science.

Prerequisite: Chemistry Placement Test. Corequisite: MTH 111\* or placement in MTH 112\* or higher. *Satisfies the university general education requirement in natural science and technology.*

### CHM 140 Foundations for Chemistry (4)

Basic chemical facts and concepts providing background and problem-solving skills in general chemistry. Intended especially for students needing additional preparation before enrolling in CHM 144.

Prerequisite: Chemistry Placement Test; MTH 111\* or placement in MTH 112\* or higher MTH course.

### CHM 144-145 General Chemistry (4 each)

Stoichiometry, states of matter, atomic and molecular structure, thermochemistry, equilibrium and kinetics. CHM 144-145 are prerequisite to all other chemistry courses except CHM 201. Recommended preparation is three years of high school mathematics and one year of high school chemistry. *CHM 144 satisfies the university general education requirement in natural science and technology.*

Prerequisite: Chemistry Placement Test or CHM 140; MTH 112\* or placement in MTH 141 or higher MTH course.

### CHM 149 General Chemistry Laboratory (2)

Introduction to the basic techniques of chemistry experimentation.

Prerequisite: Grade of 2.0 or higher in CHM 144. Corequisite: CHM 145.

### CHM 164-165 General Chemistry (Honors) (4 each)

Intensive introduction to general chemistry for the well-prepared student. Recommended preparation as for CHM 144-145, plus high school physics. *CHM 164 may be used in place of CHM 144 or 145 to satisfy the general education requirement in natural science and technology.*

Prerequisite: Chemistry Placement Test or by invitation.

### CHM 201 Introduction to Organic and Biological Chemistry (4)

Brief study of organic chemistry, emphasizing biochemical applications.

Prerequisite: CHM 104.

**CHM 203-204 Organic Chemistry (4 each)**

Structure, properties and reactivity of organic compounds. Intended primarily for majors in biology, health sciences and pre-professional students. Pre-professional students with a strong record in chemistry should consider CHM 234-235 as an alternative.

Prerequisite: CHM 145.

\*See the special information concerning these courses on page 98.

**CHM 209 Organic Chemistry Laboratory (2)**

Basic techniques of synthesis, degradation and identification of organic substances.

Prerequisite: CHM 149 and CHM 203. Corequisite: CHM 204.

**CHM 225 Analytical Chemistry (4)**

Theory and techniques of analytical chemistry, including gravimetric, titrimetric, electrochemical and spectrophotometric methods. Two hours lecture and eight hours laboratory per week.

Prerequisite: CHM 149.

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

A comprehensive introduction to organic chemistry, with emphasis on modern theory and synthetic methods. Intended primarily for chemistry majors.

Prerequisite: CHM 145.

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

Preparation, separation and identification of organic compounds. Corequisite: CHM 234-235.

**CHM 290 Introduction to Research (1, 2, 3 or 4)**

Introduction to laboratory research for students with no previous research experience. May be repeated for credit. Graded S/U.

Prerequisite: Permission of instructor.

**CHM 342 Physical Chemistry I (4)**

Applications of thermodynamics to chemical systems and equilibria.

Prerequisite: CHM 145 or 165 and MTH 154. Corequisite: MTH 155 and PHY 151.

**CHM 343 Physical Chemistry II (4)**

Macroscopic studies of kinetics, electrochemistry and transport phenomena as applied to chemical systems, and introduction to quantum mechanics.

Prerequisite: CHM 342. Corequisite: PHY 152.

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

Experiments in thermodynamics, kinetics, phase equilibria and advanced spectroscopy with emphasis on mathematical treatment of experimental data.

Prerequisite: CHM 225 and 342. Corequisite: CSE 130 and CHM 343.

**CHM 400 Seminar (0)**

Discussions of recent advances and topics of current interest; reports. Graded S/U.

Prerequisite: Senior standing.

**CHM 426 Instrumental Analysis (3)**

Theory and application of modern instrumental techniques including spectroscopy, radiochemical methods, x-ray methods, surface analysis, NMR, mass spectrometry, electroanalytical methods, gas and liquid chromatography and hyphenated methods.

Prerequisite: CHM 225 and CHM 343.

**CHM 427 Electrochemistry (3)**

Survey of electroanalytical and spectroelectrochemical methods. Includes microelectrodes and selective electrodes in bioelectrochemistry as well as electrical phenomena of the biological membrane level.

Prerequisite: CHM 225.

**CHM 444 Physical Chemistry III (3)**

Introduction to statistical mechanics. Applications of quantum and statistical mechanics to chemical bonding, molecular structure and spectroscopy.

Prerequisite: CHM 343 and MTH 254.

**CHM 453-454 Biochemistry (3 each)**

A comprehensive introduction to molecular biology and biochemistry, including the structure and function of nucleic acids, proteins, enzymes, carbohydrates and lipids, enzyme kinetics, metabolism and metabolic controls. Identical with BCM 453-454.

Prerequisite: CHM 204 or 235.

**CHM 457 Biochemistry Laboratory (2)**

Techniques of extraction, separation, identification, and quantification of biomolecules, including electrophoresis, chromatography and radioisotope techniques, with emphasis on mathematical treatment of experimental data.

Prerequisite or corequisite: CHM 453.

**CHM 458 Biochemistry Projects (2)**

Advanced project-oriented instruction in biochemical laboratory techniques.

Prerequisite: CHM 457 and permission of instructor.

**CHM 462-463 Inorganic Chemistry (2 each)**

Structure, bonding and reactivity of inorganic compounds, with emphasis on transition metals and selected main group elements.

Prerequisite: CHM 342.

**CHM 466 Inorganic Synthesis Laboratory (2)**

Synthesis, analysis and characterization of inorganic and organometallic compounds.

Prerequisite: CHM 238. Corequisite: CHM 462.

**CHM 470 Industrial Chemistry (3)**

Survey of the major sources and uses of chemicals, industrial chemical processes and fundamental raw materials. Includes discussion of organization, economics, communication, patents and government regulation in the chemical industry.

Prerequisite: CHM 235.

**CHM 471 Macromolecular Chemistry (3)**

Preparation, properties and structure of selected inorganic and organic polymers. Both chemical theory and technological applications will be discussed.

Prerequisite: CHM 204 or 235.

**CHM 472 Mechanical Properties of Polymers (3)**

Relationship between structure and mechanical behavior for polymeric, polymer-reinforced and composite materials.

Prerequisites: CHM 204 or 235 and 471.

**CHM 477 Macromolecular Laboratory (2)**

Introduction to the synthesis and physical characterization of synthetic polymers.

Prerequisite: CHM 238.

**CHM 480 Selected Topics (1, 2, 3 or 4)**

Advanced study in selected areas; normally involves preparation of a term paper or presentation of a seminar. May be repeated for credit.

Prerequisite: Permission of instructor.

**CHM 486 Physical-Analytical Projects (1 or 2)**

Advanced experimentation in physical or analytical chemistry, with at least four hours per week per credit.

Prerequisite: Permission of instructor.

**CHM 487 Synthesis Projects (1 or 2)**

Advanced synthesis work emphasizing modern techniques, with at least four hours per week per credit.

Prerequisite: Permission of instructor.



**CHM 490 Research (1, 2, 3, 4 or 6)**

Laboratory practice in undergraduate research, with at least four hours per week per credit. May be repeated for credit. Graded S/U.

Prerequisite: Permission of instructor.

**CHM 497 Apprentice College Teaching (2 or 4)**

Directed teaching of selected undergraduate chemistry courses. May be repeated for credit. Graded S/U.

Prerequisite: Permission of instructor.

The Department of Chemistry offers three economics programs. Bachelor of Arts with a major in economics, Bachelor of Science with a major in economics, and the School of Business Administration and a minor in chemistry. The program description for the School of Business Administration is on page 108-110.

The two- and three-credit programs are integral parts of the School of Business Administration. They are designed for students who are planning to continue their education in a graduate school and who will be required to take a course in economics. The course will be graded as a graduate school and will be graded as a graduate school and will be graded as a graduate school.

The Department of Chemistry offers three economics programs. Bachelor of Arts with a major in economics, Bachelor of Science with a major in economics, and the School of Business Administration and a minor in chemistry. The program description for the School of Business Administration is on page 108-110.

The two- and three-credit programs are integral parts of the School of Business Administration. They are designed for students who are planning to continue their education in a graduate school and who will be required to take a course in economics. The course will be graded as a graduate school and will be graded as a graduate school.

**Requirements for the liberal arts major in economics**

The program description for the School of Business Administration is on page 108-110. The program description for the School of Business Administration is on page 108-110.

Course	Prerequisite	Grade
CHM 101	CHM 100	C or better
CHM 102	CHM 101	C or better
CHM 201	CHM 102	C or better
CHM 202	CHM 201	C or better
CHM 301	CHM 202	C or better
CHM 302	CHM 301	C or better
CHM 401	CHM 302	C or better
CHM 402	CHM 401	C or better

# DEPARTMENT OF ECONOMICS

**Chairperson:** *Ronald L. Tracy*

**Professors:** *Eleftherios N. Botsas, David P. Doane, Karl D. Gregory, Sid Mitra, Miron Stano*

**Associate professors:** *Augustin K. Fosu, Richard A. Hofler, Oded Izraeli, Kevin J. Murphy, Ronald L. Tracy*

**Assistant professors:** *J. David Diltz, Sherman Folland, Harold Hotelling, Scott A. Monroe, Gerald V. Post*

**Visiting assistant professor:** *Anandi P. Sahu*

**Visiting instructor:** *John H. Welch*

**Lecturers:** *George Kuljurgis, Douglas R. Munro*

The curriculum for the major or minor in economics combines the concepts and tools of economic analysis, a broad general education and the freedom to take several courses in other areas of interest to the student. Students learn how economic analysis can be applied to major problems facing individuals, businesses, the nation and the world today.

Besides preparing a student for a career in economics, an education in economics is excellent preparation for entry into law school, a graduate school of public administration or management, or a Master of Business Administration (M.B.A.) program. Economics is a flexible choice for students seeking a rigorous, well-respected and relevant major without specializing in a narrowly defined area. To be employed as a professional economist or to teach economics, students normally will need to enroll in a graduate school and obtain at least a master's degree in economics, preferably a doctorate.

The Department of Economics offers three economics programs: Bachelor of Arts with a major in economics; Bachelor of Science with a major in economics (offered by the School of Business Administration); and a minor in economics. (See program descriptions under the School of Business Administration on pages 208-211).

The economics faculty and program are an integral part of the School of Business Administration, which is responsible for establishing the curriculum, for advising economics students and for related administrative matters.

## Requirements for the liberal arts major in economics

The program leading to a Bachelor of Arts degree in economics consists of completing the university general education courses (described on pages 28-31); the college distribution requirements; cognate courses in mathematics, statistics and computers; required economics courses, and economics electives, as listed below. The economics major must complete each of the cognate and required courses with a grade of 2.0 or better:

### Cognate courses

MTH 111-112*	Elementary-Intermediate Algebra (if required by score on the math placement test)	0-8
MTH 121	Linear Programming, Elementary Functions	4
MTH 122	Calculus for the Social Sciences (or MTH 154)	4
CSE 125	Introduction to Computer Use (or CSE 130)	4
QMM 250	Statistical Methods	6

**Required courses**

ECN 200	Principles of Macroeconomics	
and ECN 201	Principles of Microeconomics	
or ECN 210	Principles of Economics (combines ECN 200 and ECN 201)	6-8
ECN 301	Intermediate Microeconomics	4
ECN 302	Intermediate Macroeconomics	4

**Economics electives**

The economics elective requirement is 16 additional credits in courses numbered ECN 300 and above; 8 of these credits must be in courses numbered ECN 400 and higher; no more than 4 credits may be in ECN 490.

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48-58

\*See information concerning these courses on page 98.

**Requirements for major standing**

Admission to major standing in economics requires:

1. Certification of writing proficiency.
2. Completion of the following courses, or their equivalents, with a grade of 2.0 or better in each course: MTH 121-122, CSE 125 (or CSE 130), ECN 210 (or ECN 200 and ECN 201) and QMM 250.
3. Completion of 56 credits or more with a cumulative overall grade point average of 2.00 or better.
4. Approval of an "Application for Major Standing in Economics."

Admission to major standing in economics is required before a student may graduate with a Bachelor of Arts or Bachelor of Science degree with a major in economics. Although ECN 301 and ECN 302 are not required for admission to major standing in economics, students must earn a grade of 2.0 or better in both ECN 301 and ECN 302 in order to graduate.

**Departmental honors**

Economics majors are eligible for departmental honors if their grade point average in all economics and other courses taken from the School of Business Administration is 3.33 or above. Promising economics students may be invited to join Omicron Delta Epsilon, a national economics honors society.

**Minor in economics**

The economics faculty believes strongly in its role as a provider of education in economics to a broad range of students in other majors. Even moderate contact with the concepts and applications of economics will be valuable to most students. The minor in economics provides recognition to the student who does not want a major in economics but who has taken several courses in the area.

The minor in economics consists of a minimum of 18 credits, described as follows, and any prerequisites for these courses: ECN 150 or ECN 210 or both ECN 200 and ECN 201, and 12 additional credits in economics (ECN) courses (16 credits if the student took ECN 150). The minor in economics is open to all students except those pursuing a major in economics. Each of these courses must be passed with a grade of 2.0 or better.

**Course Offerings**

A detailed description of the economics courses is provided in the School of Business Administration section of this catalog (see pages 213-215). Following is a general description of the economics courses offered.

**ECN 150:** An introductory economics course for students not majoring in economics or management. After ECN 150, students may take certain economics courses numbered less than 350. ECN 150 may be used to meet the university general education requirement in the social sciences.

**ECN 200 and 201:** Introductory courses for students who intend to major in economics or business, or students who desire a more complete understanding of economics. The accelerated course, ECN 210, combines the material of ECN 200 and 201 into a single-semester, 6-credit course. Highly motivated and well-prepared students should consider taking ECN 210 instead of ECN 200 and 201.

**ECN 301 and 302:** These intermediate economic analysis courses are designed for students who intend to major in economics or an area of business. Students may be admitted to these courses if they are pursuing a minor in economics.

**ECN 309-ECN 341:** Economics electives numbered 309 through 341 are applications of economics that are open to students who have taken ECN 150, ECN 200 or ECN 210.

**ECN 350-ECN 385:** Economics electives numbered 350 through 385 are intermediate level courses in the applications of economics intended for majors or minors in economics and business. These courses are open to students who have taken ECN 201 or ECN 210.

**ECN 405-ECN 490:** Economics courses numbered 405 or higher are advanced courses. Enrollment in these courses is limited to students who have taken ECN 301.

A detailed description of the economics courses is given in the School of Business Administration section of this catalog (see pages 213-215). Following is a list of the economics courses offered:

ECN 150	Basic Economics (4)
ECN 200	Principles of Macroeconomics (4)
ECN 201	Principles of Microeconomics (4)
ECN 210	Principles of Economics (6)
ECN 301	Intermediate Microeconomics (4)
ECN 302	Intermediate Macroeconomics (4)
ECN 309	Urban Economic Problems (4)
ECN 310	Economics of the Environment (4)
ECN 321	Money, Credit and the Economy (4)
ECN 326	Economic Development (4)
ECN 328	American Economic Development (4)
ECN 338	Economics of Human Resources (4)
ECN 341	The Soviet Economy (4)
ECN 350	Comparative Economic Systems (4)
ECN 373	International Trade and Finance (4)
ECN 378	Economic Analysis of Law (4)
ECN 385	Industrial Organization (4)
ECN 405	Econometrics (4)
ECN 409	Urban Economics (4)
ECN 414	Engineering Economics (2)
ECN 418	Seminar in Economic Policy (4)
ECN 456	Public Finance (4)
ECN 467	Economics of Health Care (4)
ECN 468	Labor Economics (4)
ECN 473	Theory of International Trade and Finance (4)
ECN 480	Seminar in Economic Theory (4)
ECN 490	Independent Study (2 or 4)

# DEPARTMENT OF ENGLISH

**Chairperson:** Robert T. Eberwein

**Professor Emerita:** Gertrude M. White

**Professors:** Joseph W. DeMent, Jane D. Eberwein, Robert T. Eberwein,  
Thomas Fitzsimmons, James F. Hoyle, Donald E. Morse

**Associate professors:** Robert L. Donald, Nigel Hampton, David W. Mascitelli,  
Brian F. Murphy, Joan G. Rosen, Mark E. Workman (English and Folklore)

**Assistant professors:** Kevin T. Grimm, Susan E. Hawkins, Bruce J. Mann, Melodie J.  
Monahan, Laurie E. Osborne

**Associated faculty:** Professor William Schwab (Linguistics and English), Associate Professor  
Daniel H. Fullmer (Linguistics and English)

**Lecturers:** Joanne V. Aronoff, Martha L. Hammel, Marilyn Krainen, Carole J. Terry

**Chief adviser:** David W. Mascitelli

The Department of English offers courses in British and American literature, introducing students to literary history, genre studies, critical theory and intensive study of major authors. Courses in language, mythology, folklore and film broaden the field of literary inquiry in ways that associate imaginative writing with the other arts, with popular culture and with various academic disciplines. The department also provides frequent opportunities for training in writing: creative writing courses, courses in advanced expository writing and persuasive writing, technical writing courses and written assignments for literature courses.

By majoring in English, a student can enhance appreciation of literary masterpieces, gain critical understanding of imaginative writing and develop sensitivity to the uses of language while developing skills in analysis, research and communication. Such knowledge enriches all aspects of life, while such skills prepare students for careers in law, business, publishing, medical professions, library science, journalism, government and education.

The English curriculum is flexible; by seeking regular departmental advice, the English student can plan a program leading to many different professional and academic goals. The department encourages its students to balance their programs with such concentrations as American studies, environmental studies, film aesthetics and history, women's studies and computer science, or minors in linguistics, journalism, theatre arts, management, modern languages and other related fields. Majors from other university programs are welcome in English courses, many of which have no prerequisites. Evening students can complete the English major entirely through night courses.

For a description of each semester's course offerings, students should consult the "Advising Memo," available in preregistration periods in the department office. Faculty advisers provide specific guidance and help students develop comprehensive educational plans; students should consult their advisers regularly. For information about the English major and associated programs, students should consult "English: The Undergraduate Major," available in the department office.

Listed below are undergraduate programs of study leading to the Bachelor of Arts degree with a major in English, major with a linguistics concentration, a liberal arts minor in English and a secondary teaching minor in English. The department offers programs leading to the Master of Arts degree in English and, in cooperation with the School of Human and Educational Services, the Master of Arts in Teaching in English. Programs and course offerings in these programs are described in the *Oakland University Graduate Catalog*.

### Requirements for the liberal arts major in English

Forty credits in English, including ENG 140 (preferably taken in either semester of the first year), and five courses (20 credits) at the 300 level or above. Of these, two courses must be in British literary history, chosen from among ENG 354, ENG 355, ENG 356 and ENG 357; one course must be at the 400 level (excluding ENG 498 or ENG 499).

Only one course at the 100 level (in addition to ENG 140) will be accepted for credit toward the major. No more than 8 credits of ENG 499 will be accepted for credit toward the major. Normally, only 4 credits from study abroad programs will be accepted for credit toward an English major.

Students interested in a secondary teaching major in English should consult the chair of the department or the chief adviser.

### Departmental honors

Departmental honors may be awarded to graduating English majors for outstanding achievement in English.

The department awards two scholarships: the Doris J. Dressler Scholarship to an English major or humanities major (junior year or beyond) demonstrating academic promise and financial need; and the Mr. and Mrs. Roger M. Kyes Scholarship to an outstanding major. Information is available in the department office. The deadline for applications will normally be April 1.

### Requirements for the modified major in English with a linguistics concentration

The modified English/linguistics major requires 24 credits in English and American literature, including ENG 140, two courses in British literary history chosen from among ENG 354, ENG 355, ENG 356 and ENG 357, and 20 credits in linguistics. At least 20 of the 44 combined credits must be taken at the 300 level or above, and at least 4 of these credits must be in a 400-level seminar in English. See the linguistics offerings of the catalog for specific requirements.

### Requirements for the liberal arts minor in English

ENG 140, plus 16 additional credits in English courses (exclusive of composition courses used to satisfy the writing proficiency requirement) are required. At least two courses must be taken at the 300-400 level. Only one course at the 100 level will be accepted (in addition to ENG 140) as part of the minor. Only 4 credits of ENG 499 will be accepted as part of the minor. Normally, only 4 credits from study abroad programs will be accepted for an English minor.

### Requirements for the secondary teaching minor in English

Required for a minor are 24 credits from offerings in English, including ENG 140, ENG 498, one course in British literature, one course in American literature and one course in writing. At least two courses must be taken at the 300-400 level. All students planning on obtaining the minor should consult with a department adviser.

### Course Offerings

Courses on the 100 level (except ENG 140) are directed to students seeking nontechnical liberally oriented courses to fulfill general education requirements or for use in minors and particular concentrations. Courses on the 200 level offer broad introductions to literary materials and approaches basic to the study of English. Reading is often extensive and the classes are conducted primarily through lecture. Courses on the 300 level offer more intensive investigations into particular areas of English studies. These courses, the core of the program for majors, are open to advanced students according to their special needs and their preparation in related disciplines. Courses on the 400 level apply theory and methods of literary history, criticism and

research to writers and to problems presented by specific topics. They are designed for upperclass majors. Graduate courses on the 500 level are open to senior majors by permission of the instructor and the departmental chairperson.

### Course prerequisites

Except where noted, 100- and 200-level courses have no prerequisites. Advanced courses (numbered 300 to 499) have a general prerequisite of writing proficiency, plus any special requirements listed with the course descriptions.

#### ENG 100 Masterpieces of World Literature (4)

A survey acquainting the student with some of the great books of the world. Emphasis on the Western literary tradition. *For students seeking an English elective or a course to satisfy the university general education requirement in literature.*

#### ENG 105 Shakespeare (4)

A general introduction to representative dramatic works of Shakespeare. *For students seeking an English elective or a course to satisfy the university general education requirement in literature.*

#### ENG 111 Modern Literature (4)

A general introduction to some phase of modern literature. Sample offerings might be: modern drama, modern American fiction, or continental literature. *For students seeking an English elective or a course to satisfy the university general education requirement in literature.*

#### ENG 120 Literature of Fantasy and Science Fiction (4)

May emphasize either fantasy or science fiction in any given term, and may present a historical view or deal with current trends in the literature.

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

Practice in the techniques of reading literature and introduction to important basic concepts of criticism and commentary. Required of majors and minors in English.

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

Topics or problems selected by the instructor.

#### ENG 211 The Bible as Literature (4)

Study of the types of literature found in the Old and New Testaments. Identical with REL 211.

#### ENG 214 Introduction to Folklore (4)

The major forms of traditional artistic expression (folktale, myth, legend, proverb, ballad, ritual) studied in their literary and cultural contexts.

#### ENG 215 Fundamentals of Grammar and Rhetoric for Secondary Teachers (4)

A course treating the relationship of the study of language systems to composition and exploring various grammatical and rhetorical models useful in teaching writing. Required of all secondary education majors in English. Open to secondary education majors in other fields.

Prerequisite: RHT 101 or equivalent.

#### ENG 224 American Literature (4)

Introduction to literary analysis and appreciation through readings in the American literary tradition. Emphasis on such authors as Hawthorne, Melville, Dickinson and James. *For students seeking an English elective or a course to satisfy the university general education requirement in literature.*

#### ENG 241 British Literature (4)

Introduction to literary analysis and appreciation through readings in the British literary tradition. Emphasis on such authors as Chaucer, Shakespeare and Dickens. *For students seeking an English elective or a course to satisfy the university general education requirement in literature.*

#### ENG 250 Film: A Literary Approach (4)

Exploration of the dramatic and narrative content of classic and modern films, treating such elements as theme, motif, symbol, imagery, structure and characterization, as well as cultural and philosophical implications.

- ENG 300 Special Topics in Literature and Language (4)**  
Special problems or topics selected by the instructor.
- ENG 301 Poetry (4)**  
The major forms of poetic expression studied from generic and historical points of view.
- ENG 302 Popular Culture (4)**  
The major forms of popular expression (mystery, western, science fiction, romance) in literature and related media (film, television, music) studied in their cultural contexts.
- ENG 303 Fiction (4)**  
The major forms of narrative fiction (short story, novella, novel) studied from generic and historical points of view. *Meets the university general education requirement in literature.*
- ENG 304 Studies in Literary Mode (4)**  
A major literary mode (such as tragedy, comedy, epic, romance, satire) studied from generic and historical points of view.
- ENG 306 Drama (4)**  
The major forms of dramatic expression studied from generic and historical points of view. *Meets the university general education requirement in literature.*
- ENG 307 Modern Drama (4)**  
Studies in English, American and Continental drama since Ibsen.
- ENG 308 Playwriting (4)**  
A study of plays from various periods and theatrical styles and an exploration of principles and techniques of dramatic writing. The last half of the course will be devoted exclusively to student scripts. Enrollment limited to 20.  
Prerequisite: Permission of instructor.
- ENG 309 Scriptwriting (4)**  
A study of screen plays and films, exploring principles and techniques of dramatic writing, with emphasis on problems posed by a primarily visual medium. The last half of the course will be devoted to student scripts. Enrollment limited to 20.  
Prerequisite: Permission of instructor.
- ENG 310 Workshop in Writing (4)**  
Intermediate-level workshop for apprentice writers in poetry or fiction, the emphasis varying from semester to semester.
- ENG 311 Chaucer (4)**  
The major works, with emphasis on *The Canterbury Tales* and *Troilus and Criseyde*.
- ENG 312 Classical Mythology (4)**  
The principal Greek and Roman myths and their uses in classical and post-classical art and literature. *Meets the university general education requirement in literature.*
- ENG 313 Myth in Literature (4)**  
Study of the mythic content and/or structure of literature.
- ENG 314 Folklore in Literature (4)**  
Reflection of folk themes, images and structures in British and American literature by authors such as Twain, Faulkner, Hardy and Joyce.
- ENG 315 Shakespeare (4)**  
Reading and discussion of representative plays and poetry.
- ENG 316 Milton (4)**  
His major poetry, with emphasis on *Paradise Lost* and some attention to his prose.
- ENG 317 Early American Literature (4)**  
Studies in colonial and early national American literature with emphasis on such writers as Bradstreet, Taylor, Edwards and Franklin.



- ENG 320 American Poetry (4)**  
Studies in American poetry from its origins with emphasis on the major writers of the nineteenth and early twentieth centuries such as Poe, Whitman, Dickinson, Frost and Eliot.
- ENG 322 Nineteenth Century American Fiction (4)**  
Readings in the novel, tale and sketch with emphasis on major writers such as Hawthorne, Melville, Twain and James.
- ENG 324 Issues in American Literature (4)**  
Study of literary works ranging across period and/or genre in their relation to a central issue, theme, or problem in American literature. Representative topics are romanticism, the puritan tradition, American humor and the writer and American society.
- ENG 332 Modern American Fiction (4)**  
Studies in American fiction since the turn of the century with emphasis on such figures as Faulkner, Hemingway, West, Dos Passos, Steinbeck and Fitzgerald.
- ENG 333 Modern Poetry (4)**  
Studies in poetry since the turn of the century. The course may emphasize American or British in any given semester or discuss international currents in modern poetry.
- ENG 340 Writing Now (4)**  
Verbal arts in contemporary contexts. Writing and related arts — any or all combinations.
- ENG 341 Selected Ethnic Literature (4)**  
Reading and critical analysis of representative selections from American ethnic literature. Special attention to groupings such as American-Jewish and Native American at discretion of instructor.
- ENG 342 Black American Writers (4)**  
A study of black literary figures and the black experience in literature, with emphasis on the works of Gwendolyn Brooks, Ralph Ellison, James Baldwin and other representative writers.
- ENG 350 Topics in Film (4)**  
Topic or problem to be selected by the instructor.
- ENG 354 British Medieval Literature (4)**  
Development of Old and Middle English literature to about 1500. Emphasis on the major works from *Beowulf* to Chaucer and Malory.
- ENG 355 British Literature of the Renaissance (4)**  
Literature from about 1500 to 1660. Emphasis on the development of the sonnet and lyric, drama, prose and epic. Consideration of such major authors as Sidney, Donne, Shakespeare and Milton.
- ENG 356 British Literature from the Restoration to Romanticism (4)**  
From 1660 to the Romantic revolution of the early nineteenth century. Consideration of such major authors as Dryden, Swift, Pope, Johnson, Burns, Blake and Wordsworth.
- ENG 357 British Literature of the Victorian and Early Modern Periods (4)**  
From the Victorians to the 1920s. Among the major authors to be considered are Tennyson, Browning, Arnold, Carlyle, Rossetti, Hopkins, Shaw and Yeats.
- ENG 369 The English Novel (4)**  
A study of the origin and development of the English novel from its beginnings to the early twentieth century. Among the novelists to be considered are Fielding, Richardson, Austen, Dickens, Conrad, Lawrence and Joyce.
- ENG 375 Modern Literature (4)**  
Modern British, American and/or Continental literature, with concentration on the work of a small number of writers.
- ENG 376 History of the English Language (4)**  
A detailed survey of the English language from its beginning to modern times.

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

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

**ENG 380 Analytical and Persuasive Writing (4)**

A practical course in analytical writing. Emphasis on persuasion, argumentation, organization, audience analysis and style.

**ENG 382 Business and Technical Writing (4)**

Instruction, practice and technique in writing business communications (letters, memoranda, reports and technical communications).

**ENG 385 Interdisciplinary Issues (4)**

The relationship of literature and literary study to one of the following disciplines: science, philosophy, psychology, religion, music or the visual arts. The second area will vary from semester to semester.

**ENG 390 Literary Theory and Critical Methods (4)**

Studies in modern critical methods, with emphasis on formal analysis, structuralism, and myth criticism. Application of critical approaches and techniques.

**ENG 391 History of Literary Criticism (4)**

The development of literary criticism, presented as a survey with emphasis on major theorists. Significant applications of theory examined.

**ENG 392 Film Theory and Criticism (4)**

Study of major critical approaches to film such as those of Eisenstein, Kracauer, Arnheim, Bazin, Sarris and Metz.

Prerequisite: A course in film.

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

Advanced topics and problems selected by the instructor.

Prerequisite: Four courses in English.

**ENG 401 Studies in Literary Kinds (4)**

The study of a single literary kind, whether genre (such as novel, lyric or drama) or mode (such as tragedy or comedy).

Prerequisite: Four courses in English.

**ENG 410 Imaginative Writing (4)**

Designed for potential writers of fiction, poetry and/or drama. The course may focus on one kind of writing, and the approach may shift from semester to semester.

Prerequisite: Permission of instructor.

**ENG 451 Major American Writers (4)**

Studies in one or two American writers to be selected by the instructor.

Prerequisite: Four courses in English.

**ENG 452 Major British Writers (4)**

Studies in one or two British writers to be selected by the instructor.

Prerequisite: Four courses in English.

**ENG 453 Studies in Major Authors (4)**

Intensive study of a selected group of authors: British, American, or both.

Prerequisite: Four courses in English.

**ENG 465 Shakespeare (4)**

Analysis of four or five of the plays.

Prerequisite: Four courses in English.

**ENG 490 Advanced Criticism (4)**

Studies in criticism, often concentrating on a single school.

Prerequisite: Four courses in English.

**ENG 498 The Theories of Teaching Literature, Language and Composition (4)**

Designed for the future teacher of English, this course focuses on materials and methods for teaching English in junior and senior high schools. Offered only during winter semester.

Prerequisite: English and language arts secondary education majors and minors only.

**ENG 499 Independent Study (2 or 4)**

A proposed course of study must be submitted to the prospective instructor in the semester before the independent study is to be taken. Only 8 credits of 499 may apply toward the major, and only 4 credits may apply toward the minor. May be elected on an SU basis.

Prerequisite: Four courses in English and permission of instructor.

# DEPARTMENT OF HISTORY

**Chairperson:** *S. Bernard Thomas*

**Professor Emeritus:** *George T. Matthews*

**Professors:** *Charles W. Akers, John Barnard, Brian P. Copenhaver, Joseph A. Klaitz, W. Patrick Strauss, S. Bernard Thomas, Richard P. Tucker*

**Associate professors:** *De Witt S. Dykes, Jr., Leonardas V. Gerulaitis, James D. Graham, Gerald C. Heberle, Mary C. Karasch, Roy A. Kotynek, Paul M. Michaud, Lawrence D. Orton, Carl R. Osthaus, Anne H. Tripp*

**Assistant professor:** *Whitney Walton*

**Visiting instructor:** *Alan E. Steinweis*

**Chief adviser:** *Carl R. Osthaus*

The study of history at the undergraduate level has traditionally been considered one of the major paths to informed and effective citizenship. Its emphasis on broad knowledge, critical reading, careful judgment and precise writing offers excellent preprofessional preparation for many careers in business, government service, law, the ministry, journalism and library and museum service.

The Department of History guides students toward these careers and provides an opportunity to support academic preparation with field experience in the community (e.g., a historical society, museum or private or public agency). Oakland University's teacher training program draws on history in the elementary education major and minor concentrations in history/social science, in the secondary teaching major in social studies and in the secondary teaching minor in history.

Careers in college teaching and other forms of professional historical scholarship usually require post-graduate training, toward which solid work in the undergraduate major is extremely important. Students interested in achieving a Ph.D. in history should be aware that most graduate schools require demonstrated competence in one or two modern foreign languages.

The department's undergraduate program leads to the Bachelor of Arts degree. It also offers a Master of Arts program, which is described in the *Oakland University Graduate Catalog*. The department offers both undergraduate and graduate evening courses, and students can complete either the B.A. or M.A. entirely at night. Every history student should plan his or her course of study in close consultation with a department adviser.

## Requirements for the liberal arts major in history

The major in history requires 40 credits in history courses. At least 20 of these credits must be in courses numbered 300 or above, and must include HST 300. No more than 16 credits in independent study (HST 391 and 491) may be counted toward the history major.

## Departmental honors

Majors who wish to be considered for departmental honors must submit an application to the History Honors Committee with a research paper prepared in connection with regular course work. The committee will want the original of the paper, along with the instructor's comments and grade. There is no statutory grade point minimum for honors, but the award is seldom made to students with less than a 3.50 grade point average in history.

There are two scholarships specifically for students majoring in or intending to major in history. Information about the George T. Matthews Scholarship and the Oakland University Foundation Matthews Scholarship is available in the History Department office.

### Requirements for the liberal arts minor in history

The liberal arts minor in history requires 20 credits in history courses, including 8 credits in courses numbered 300 or above.

### Requirements for the secondary teaching minor in history

The secondary teaching minor in history requires 20 credits in history courses, including HST 114 and 115; at least 8 credits must be in courses numbered 300 or above. Students interested in a secondary teaching major in history should consult the chair of the department or the chief adviser.

### Course prerequisites

Introductory and survey courses (HST 100-HST 299) have no prerequisites. More advanced courses (HST 300-HST 399) have a general prerequisite of writing proficiency certification plus any special requirements listed within the course descriptions. The most advanced research courses at the undergraduate level (HST 400-HST 499) have a general requirement of 20 credits in history plus any special requirements listed within the course descriptions.

### Course Offerings

#### HST 100 Topics in History (4)

An introductory course to develop critical judgment regarding the nature and use of historical evidence. Recommended for students with little or no background in college-level history. May be repeated once for a total of 8 credits.

#### HST 101 Introduction to European History before 1715 (4)

Surveys the history of Europe from the ancient period through the Middle Ages, Renaissance, Reformation and the Early Modern periods. Satisfies the university general education requirement in Western civilization.

#### HST 102 Introduction to European History since 1715 (4)

Surveys the history of Europe from the Enlightenment to the present. Satisfies the university general education requirement in Western civilization.

#### HST 114 Introduction to American History before 1876 (4)

Surveys American history from colonial times through the Reconstruction era, focusing upon the formation of the United States and the forces promoting unity and division in the new nation. Satisfies the university general education requirement in Western civilization.

#### HST 115 Introduction to American History since 1876 (4)

Surveys American history from Reconstruction to the present, emphasizing the emergence of the United States as an industrial-urban nation with global interests. Satisfies the university general education requirement in Western civilization.

#### HST 210 Science and Technology in Western Culture (4)

A survey of the development of science from antiquity to the present with reference to its technological consequences and influence upon society. Satisfies the university general education requirement in Western civilization.

#### HST 218 History of Michigan (4)

A survey of the political, economic and social history of the state from the Indian and French settlement to the present. Offered in alternate years.

#### HST 219 United States since 1945 (4)

A survey of American political, economic and social history since World War II.

#### HST 221 American Diplomatic History (4)

The origin, formulation and development of American foreign policy from the Revolution to the present; topics include the Monroe Doctrine, manifest destiny and imperialism, the Civil War, World Wars I and II, the Cold War and nuclear diplomacy.

**HST 222 American Sport History (4)**

The place of sport in American society from the colonial period to the present. Several sports are selected to illustrate developments of major historical significance.

**HST 223 History of American Cities (4)**

History of American cities from pre-industrial America to the present emphasizing the effect of such forces as industrialization, immigration, migration, trade, economic patterns and transportation upon city organization and life.

**HST 224 History of American Families (4)**

History of American families as social institutions emphasizing the impact of historical events and trends upon family composition, family functions and family life. Includes research in the student's personal family history.

**HST 225 Introduction to Ancient History (4)**

Surveys the history of the Ancient Near East and the Mediterranean area, including the civilizations of Mesopotamia, Egypt, Persia, Greece and Rome up to the later Roman Empire.

**HST 228 Introduction to Environmental History (4)**

History of selected human societies' interaction with the natural environment, especially changing relations among population, food and natural resources. Includes the modern world-system and the acceleration of environmental decline.

**HST 229 History of Women Since 1750 (4)**

Topical study of American and European Women in social historical context from preindustrial times to the present.

**HST 250 History of Russia (4)**

An introduction to the political, social and intellectual history of Russia and the Soviet Union from the Kievan State to the present.

**HST 254 Eastern European History (4)**

The historical development of the peoples and states of East-Central Europe and the Balkans — Poland, Ukraine, Czechoslovakia, Hungary, Rumania, Yugoslavia and Bulgaria — from the Middle Ages to the present, with emphasis on the period since World War II.

**HST 261 Introduction to Latin American History I (4)**

HST 261 is a survey of pre-Columbian and colonial Latin America to 1825, stressing the Hispanization of the society, its socio-economic institutions, the influence of the Enlightenment and the achievement of political independence.

**HST 262 Introduction to Latin American History II (4)**

Surveys the national period of Latin America from 1825 to the present, emphasizing the problems of nation-building and modernization, the emergence of nationalism and militarism and the roots of social revolutionary ferment.

**HST 270 History of Modern Japan (4)**

History of Japan from the mid-nineteenth century to the post-World War II reform, recovery and emergence as an economic power.

**HST 285 African History (4)**

An introduction to the range of African history, from human evolution and Egyptian civilization through the development of divine kingships and international trade, to colonialism and African responses to European conquest.

**HST 292 History of the Afro-American People (4)**

Surveys the Afro-American experience from the African background through the Civil War and post-Civil War periods to the present.

**HST 300 Seminar in Historical Research (4)**

The development of critical judgment regarding the nature and use of historical evidence: historiographical readings, library investigation into specific topics within a general historical subject, a research paper and a presentation of the paper to the seminar.

Prerequisite: One history course.

- HST 302 American Labor History (4)**  
The economic, social and political history of the American work force with emphasis on the history of organized labor.
- HST 303 American Constitutional History (4)**  
Origins and development of American constitutional doctrine and interpretation from the colonial period to the present, emphasizing constitutional controversy and change.
- HST 304 History of the American Industrial Economy and Society (4)**  
The development of the American industrial system and its impact on business organization, labor, government and the international economy.
- HST 306 Colonial and Revolutionary America (4)**  
The transplantation of European society to continental North America; the subsequent development of political, economic and social institutions in the colonies; the Anglo-French struggle for the continent; and the American Revolution.
- HST 307 American Religious History (4)**  
A study of American religious history, including religious elements in immigration, separation of church and state, denominationalism and sectarianism, religion and nationalism, religious leadership and religion as a social force. Identical with REL 307.
- HST 310 The Young Republic and the Age of Jackson, 1787-1850 (4)**  
The making of the Constitution, the social, political and economic development of the new nation and the subsequent forces affecting expansion, social protest and sectionalism to 1850. Offered in alternate years.
- HST 312 The Civil War and Reconstruction, 1850-1876 (4)**  
The origins of secession, the wartime problems of the Union and the Confederacy, the principal military campaigns, the Reconstruction era and the creation of a new union, and the significance of the Civil War and Reconstruction in American history. Offered each year.
- HST 313 American History, 1876-1900 (4)**  
The New South, industrial consolidation, the origins of the modern labor movement, the rise of the city, immigration, agrarian protest movements, the businessman's philosophy and the challenge to laissez-faire.
- HST 314 American History, 1900-1928 (4)**  
Social, political and economic developments in the U.S. during the progressive era and the decade of the 1920s. Offered in alternate years.
- HST 315 American History since 1928 (4)**  
The myth of the New Era, the social and political impact of the Great Depression, New Deal programs and radical alternatives, the isolationist-internationalist debate, modern Republicanism and the New Frontier. Offered in alternate years.
- HST 316 The American Mind to 1860 (4)**  
The history of American thought from the colonial period to the Civil War, emphasizing New England Puritanism, the transition from colonies to provinces, the era of the American Revolution and the origins of modern America.
- HST 317 The American Mind since 1860 (4)**  
Major intellectual trends in the United States from the Civil War to the present, including ideological conflict during the Civil War and Reconstruction, the impact of evolutionary thought and responses to industrialization and urbanization.
- HST 318 Topics in American Social History (4)**  
Selected topics in the history of popular beliefs, social structure and organization and the process of social change, including movements of reform.
- HST 319 History of the American South (4)**  
The South from colonial times to the 1960s, emphasizing the transition from the agrarian, slave South of the antebellum period to the modern South of the 20th century.

- HST 321 American Diplomatic History in the Twentieth Century (4)**  
American foreign policy and diplomacy from the Spanish-American War to the present, including American imperialism, Caribbean and Far Eastern policies, involvement in the world wars and the Cold War, and nuclear diplomacy. Offered each year.
- HST 323 Topics in Afro-American History (4)**  
The economic, social and political activities, status, organizations and institutions of Afro-American people, emphasizing the 20th century.
- HST 325 Medieval Europe (4)**  
The European Middle Ages from about A.D. 400 to 1300, with special emphasis on intellectual developments. Offered in alternate years.
- HST 326 The Italian Renaissance (4)**  
The European Renaissance period, with emphasis on the Italian experience. Offered in alternate years.
- HST 327 The Northern Renaissance (4)**  
European humanism, with emphasis on the Lowlands, France and Germany. Offered in alternate years.
- HST 329 Europe in the Seventeenth Century (4)**  
A comparative analysis of European societies: the articulation of absolutism and constitutionalism, the emergence of the European states system, the origins and impact of modern science, the culture of the baroque and the development of commercial capitalism.
- HST 334 Victorian and Edwardian England (4)**  
The political, social, economic and intellectual life of England from 1837 to the outbreak of World War I.
- HST 335 Twentieth Century Britain (4)**  
British adjustment to global wars, the loss of empire, economic weakness and social discord.
- HST 338 The Origins of Modern Economics: Smith to Marx (4)**  
Ideas of the classical economists from Adam Smith to Karl Marx, and how they relate to social and political change in Britain's Industrial Revolution and to more recent economic issues. Offered in alternate years.
- HST 341 Europe since 1914 (4)**  
An analysis of Europe in world perspective since World War I.
- HST 343 Germany since 1848 (4)**  
The history of the German nation-state, concentrating on constitutional and political developments in their social context.
- HST 345 France since 1789 (4)**  
The political development of modern France as a nation-state and the cultural and economic movements connected with French public life.
- HST 346 European Witchcraft (4)**  
A scholarly investigation of witch beliefs and witch trials in Europe, England and New England. The social and intellectual foundations of witchcraft prosecutions from the Middle Ages to the end of the seventeenth century.
- HST 348 Europe in the Eighteenth Century (4)**  
A comparative analysis of European societies: the old regime in Europe, beginnings of industrial development, the Enlightenment as a political and social movement, reform under the monarchy and the emergence of democratic ideologies, and the French Revolution.
- HST 349 France in the Age of Absolutism and Enlightenment (4)**  
The *ancien regime* in France from the end of the wars of religion to the beginning of the Revolution (1589-1789).
- HST 350 The European Mind to 1700 (4)**  
Major developments in European thought from the God-oriented world views of the Middle Ages to the development of scientific concepts in the seventeenth century. Emphasis is on reading original materials.
- HST 351 The European Mind since 1700 (4)**  
European intellectual movements since the eighteenth-century Enlightenment, emphasizing the impact of evolutionary, utilitarian and existentialist theories and the criticism of traditional rationalist assumptions. Emphasis is on reading original materials.



**HST 353 Imperial Russia (4)**

Russian history from Peter the Great to the Bolshevik Revolution: the growth of Russian national power, westernization, serfdom and revolution.

**HST 354 Soviet Russia (4)**

Russia and the Soviet Union from 1917 to the present: revolution and civil war, collectivization and industrialization, Stalinism, World War II, de-Stalinization, the Soviet Union and the world communist movement.

**HST 359 Russian Intellectual History to Peter the Great (4)**

Main intellectual and cultural developments in Russia before Peter the Great. The Russian Church and religious thought, literature and the development of political ideology will be emphasized.

**HST 360 Russian Intellectual History since Peter the Great (4)**

Main intellectual and cultural developments since Peter the Great, with emphasis on the nineteenth century. Particular attention is devoted to the slavophiles, the westernizers, the populists and socialists, and several of the great realistic writers.

**HST 363 History of Southern South America (4)**

The social, political and economic history of Argentina, Brazil and Chile in the nineteenth and twentieth centuries; expansion and Indian warfare; slavery and Empire in Brazil; regionalism and nationalism; industrialization and urbanization; and international relations.

**HST 365 Colonialism and Nationalism in the Modern World (4)**

A comparative survey of selected European colonial systems and the responses of colonized peoples in Latin America, Africa and Asia. Emphasis on themes such as economic expansion, acculturation, resistance movements and state formation.

Prerequisite: IS 210 or IS 230 or IS 240 or IS 250.

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

A comparative approach to the study of slavery in North America, Latin America and the Caribbean, and to present race relations in these areas.

**HST 367 History of Mexico (4)**

The scope and achievements of pre-Columbian civilizations, the Spanish Conquest, the emergence of a multiracial society, the achievement of political independence and nation-building in the twentieth century.

**HST 370 China: Beginnings through Han to A.D. 220 (4)**

The history of China from most ancient times to the downfall of the Han Dynasty in 220 A.D.

**HST 371 China: From the Three Kingdoms through Ming, 220-1644 (4)**

The history of China to the eve of the Manchu conquest in 1644.

**HST 373 China: The Final (Ch'ing) Imperial Phase, 1644-1912 (4)**

China under Manchu rule, from the conquest to the collapse of the Confucian imperial order in the early twentieth century.

**HST 374 China: The Nationalist Republican Period, 1912-1949 (4)**

Revolutionary nationalism and political, social and cultural change under the Chinese Republic from the warlord era to the establishment of the Communist-led People's Republic in 1949, and post 1949 developments in Nationalist-ruled Taiwan.

**HST 376 History of Chinese Communism: 1921 to the Present (4)**

The revolutionary history of the Chinese Communist movement from its beginning in 1921 to its accession to power in 1949 and the major lines of development under the Chinese People's Republic since 1949.

**HST 379 The Ancient Near East and Mediterranean I (4)**

The history of the ancient peoples in Mesopotamia, Egypt, Persia, North Africa and the areas of Greek influence to the Hellenistic period of Alexander the Great.

Prerequisite: HST 225 recommended.

**HST 380 The Ancient Near East and the Mediterranean II (4)**

The history of the ancient peoples in South Western Asia, Northern Africa and Southern Europe from the Hellenistic Period to the age of Justinian (sixth century A.D.).

Prerequisite: HST 225 recommended.

**HST 381 History of Early India (4)**

The history of India from the most ancient times to the coming of the Mughals in the early 16th century. Offered winter semester in alternate years.

**HST 386 Contemporary African History (4)**

Colonial and postcolonial economic development, political ideologies and social problems of contemporary Africa. Resistance and revolutionary movements, styles of leadership and building of nations.

**HST 391 Directed Readings in History (2, 4 or 8)**

Independent but directed readings for junior and senior majors in fields of history in which advanced courses are not available. Offered each semester.

Prerequisite: Permission of instructor.

**HST 399 Field Experience in History (4)**

Field experience in history, with faculty supervision which incorporates student performance in an occupational setting. May not be repeated for credit.

Prerequisite: 24 credits in history, of which at least 8 must be at the 300-400 level.

**HST 481 Seminar in Historiography (4)**

Reading and research in topics analyzing the literature of historical inquiry and writing.

**HST 491 Directed Research in History (4, 8 or 12)**

Directed individual research for advanced history majors. Offered each semester.

Prerequisite: Permission of instructor and History 300.

# CENTER FOR INTERNATIONAL PROGRAMS

**Director:** Carlo Coppola (*Modern Languages and Literatures*)

**International Studies Executive Committee:** Richard B. Stamps (*Sociology and Anthropology*), Peter J. Bertocci (*Sociology and Anthropology*), Carlo Coppola (*Modern Languages and Literatures*), Vincent B. Khapoya (*Political Science*), Kathryn M. McArdle-Pigott (*Modern Languages and Literatures*)

Drawing on faculty from various disciplines, the College of Arts and Sciences sponsors a distinctive offering of international studies programs. International studies involves the examination of living world civilizations (with the exception of those of Western Europe and North America) from an interdisciplinary point of view. The various aspects of these civilizations — art, government, history, language, literature, music, religion and social organization — are studied in the traditional departments of the university.

A major in one of these areas might be considered by a student who, from intellectual curiosity or from career choice, seeks an integrated view of a civilization. Career opportunities in international studies include business and industries with international dimensions, international agencies and foundations, government service, translation, journalism, teaching and graduate study.

The college offers a major in African and Afro-American studies, East Asian studies (China and Japan), South Asian studies (India, Pakistan and Bangladesh), Slavic studies (Russia and Eastern Europe) and Latin American studies. A minor in international studies is also offered. Courses labeled IS are described in this section on pages 91-92. All other courses applicable to international studies programs are offered by individual college departments; descriptions of those courses can be found in respective departmental listings.

## Requirements for the liberal arts major in international studies

The international studies major consists of 40 credits, of which 28 credits must be taken in the primary area (African and Afro-American studies, East Asian studies, South Asian studies, Slavic studies or Latin American studies); 12 credits in a complementary area of study; and language proficiency equivalent to 8 credits of work at the third year of study in an appropriate language. The complementary area of study ordinarily consists of the appropriate introductory course and two additional courses appropriate to the area, which may be either international studies courses or departmental courses.

Duplication of course credit in the primary and complementary areas is not permitted. However, majors may apply their introductory course to both their major and general education requirement in international studies.

## Departmental honors

Honors are available to outstanding students in the major. For specific information, students should contact the department office.

## Requirements for the liberal arts minor in international studies

The minor in international studies consists of 20 credits in a given area of study distributed as follows: appropriate introductory course, appropriate special topics course, appropriate seminar and 8 additional credits chosen from the appropriate program offerings.

## African and Afro-American studies program

**Coordinator:** Vincent B. Khapoya (Political Science)

**Faculty:** Johnetta Brazzell (Placement and Career Services), Robert L. Donald (English), De Witt S. Dykes, Jr. (History), James D. Graham (History), Karl D. Gregory (Economics), Marvin D. Holladay (Music, Theatre and Dance), James W. Hughes (School of Human and Educational Services), Mary C. Karasch (History), Charlotte V. Stokes (Art and Art History)

Course requirements for the major in African and Afro-American studies are: IS 230, HST 292, IS 384 and 16 additional credits distributed as widely as possible from the following courses: AH 208, AH 305, AN 352, ENG 342, HST 285, HST 323, HST 365, HST 366, HST 386, MUS 347-348, PS 203, PS 333, SOC 331, IS 300, IS 390 and IS 490. The complementary area of study may be either Latin America or Islamic Civilization. The appropriate language is French, although students whose complementary area is Latin America may elect Spanish. Students must demonstrate a language proficiency equivalent to 8 credits of work at the third year of study in French or Spanish.

## East Asian studies program

**Coordinator:** Richard B. Stamps (Sociology and Anthropology)

**Faculty:** Bonnie F. Abiko (Art and Art History), Sheldon L. Appleton (Political Science), Janet Krompart (Kresge Library: East Asian librarian), John Marney (Modern Languages and Literatures), Paul M. Michaud (History), Richard B. Stamps (Sociology and Anthropology), Amitendranath Tagore (Modern Languages and Literatures), S. Bernard Thomas (History)

Course requirements for the major in Chinese studies are IS 210, IS 300, IS 381 and 16 additional credits distributed as widely as possible from the following courses: AH 300, AN 362, HST 370, HST 371, HST 373, HST 374, HST 376, PHL 350, PS 318, PS 338, IS 390 and IS 490. The complementary areas of study may be either Japanese or South Asian studies. The appropriate language is Chinese. The Center for International Programs periodically sponsors summer study tours to China.

Course requirements for the major in Japanese studies are IS 220, IS 300, IS 381 and 16 additional credits distributed as widely as possible from the following courses: AH 301, HST 270, PHL 350, IS 361-362, IS 390 and IS 490. The complementary area of study may be Chinese or South Asian studies. The appropriate language is Japanese. Students wishing to study in Japan may do so through an exchange program between Oakland University and Nanzan University, Nagoya, Japan.

## South Asian studies programs

**Coordinator:** Peter J. Bertocci (Sociology and Anthropology)

**Faculty:** Richard W. Brooks (Philosophy), Thomas W. Casstevens (Political Science), Carlo Coppola (Modern Languages and Literatures), Paul M. Michaud (History), Munibur Rahman (Modern Languages and Literatures), Amitendranath Tagore (Modern Languages and Literatures), Richard P. Tucker (History)

Course requirements for the major in South Asian studies are IS 240, IS 300, IS 382 and 16 additional credits distributed as widely as possible from the following courses: AH 302, AH 320, AN 361, HST 381, PHL 350, PHL 352, PS 334, REL 304, SOC 301, IS 270, IS 390 and IS 490. The complementary area of study may be Chinese studies, Japanese studies or Islamic civilization. The appropriate language is Hindi or Urdu.

## Slavic studies program

**Coordinator:** *Carlo Coppola (Modern Languages and Literatures)*

**Faculty:** *Helen Kovach-Tarakanov (Modern Languages and Literatures), Lawrence D. Orton (History), James R. Ozinga (Political Science)*

Course requirements for the major in Slavic studies are IS 260, IS 300, IS 383 and 16 additional credits distributed as widely as possible from the following courses: ECN 341, HST 250, HST 254, HST 353, HST 354, HST 359, HST 360, PS 318, PS 337, PS 377, IS 386, IS 390 and IS 490. The complementary area of study may be Chinese studies, Japanese studies or Islamic civilization. The appropriate language is Russian or Polish. The Center for International Programs periodically sponsors summer study tours to the Soviet Union.

## Latin American studies

**Coordinator:** *Kathryn M. McArdle-Pigott (Modern Languages and Literatures)*

**Faculty:** *William C. Bryant (Modern Languages and Literatures), James W. Dow (Sociology and Anthropology), Lucinda Hart-Gonzalez (Linguistics, Sociology and Anthropology), Edward J. Heubel (Political Science), Mary C. Karasch (History), Patricia Montenegro (Modern Languages and Literatures), Charlotte V. Stokes (Art and Art History)*

Course requirements for the major in Latin American studies are IS 250, IS 300, IS 385 and 16 additional credits distributed as widely as possible from the following courses: AH 307, AN 370, AN 371, AN 372, HST 261, HST 262, HST 363, HST 365, HST 366, HST 367, PS 335, SPN 420, SPN 421, IS 368, IS 390 and IS 490. The complementary area of study is African studies. The appropriate language is Spanish or Portuguese. The Center for International Programs periodically sponsors summer study programs in Mexico.

## Course Offerings

IS 210-270      **Introductory Courses (4 each)**

An interdisciplinary study of the peoples of a specific area and their traditional and modern civilizations. Students should enroll in the course number corresponding to a specific area:

IS 210      **Introduction to China**  
Satisfies the university general education requirement in international studies.

IS 220      **Introduction to Japan**  
Satisfies the university general education requirement in international studies.

IS 230      **Introduction to Africa**  
Satisfies the university general education requirement in international studies.

IS 240      **Introduction to India**  
Satisfies the university general education requirement in international studies.

IS 250      **Introduction to Latin America**  
Satisfies the university general education requirement in international studies.

IS 260      **Introduction to Russia and Eastern Europe**  
Satisfies the university general education requirement in international studies.

IS 270      **Introduction to the Middle East**  
Satisfies the university general education requirement in international studies.

IS 300      **Special Topics in International Studies (4)**

Interdisciplinary study of a foreign area for which no regular course offerings exist. May be repeated once for a total of 8 credits.

Prerequisite: Appropriate IS introductory course.

**IS 310 Introduction to Canada (4)**

An interdisciplinary study of the peoples of Canada and their traditional and modern civilizations. Identical with SOC 310.

**IS 361-362 Japan Exchange Program (16-18)**

Course work is taken at Nanzan University in Nagoya, Japan; includes Japanese language study and additional appropriate courses with English as the language of instruction.

**IS 368 Summer Program in Mexican Studies (8)**

Oakland faculty and Mexican faculty present summer courses focusing on Mexican culture: history, art, political and social problems, folk arts, archaeology, Chicano studies, intensive language and Mexican literature. Courses conducted in both Spanish and English. May be repeated once for additional credits with consent of the Latin American studies coordinator.

**IS 380-385 Seminars (4)**

Selected topics dealing with a specified area, to supplement departmental area courses. Students enroll under the number corresponding to a specific area. May be repeated once for a total of 8 credits.

Prerequisite: Senior standing and permission of instructor.

**IS 380 Seminar in Afro-American Studies****IS 381 Seminar in East Asian Studies****IS 382 Seminar in South Asian Studies****IS 383 Seminar in Russian and Eastern European Studies****IS 384 Seminar in African Studies****IS 385 Seminar in Latin American Studies****IS 386 Slavic Folk Studies (2)**

An intensive survey of the traditional music, songs, dances, and costumes of selected Slavic cultures. Includes participation in the Slavic Folk Ensemble. May be repeated once for a total of 4 credits. Graded S/U.

**IS 390 Directed Readings in International Studies (2, 4, 6 or 8)**

Readings from diverse disciplines with focus on a student's area of specialization. Conducted as a tutorial by an instructor chosen by the student.

Prerequisite: Appropriate IS introductory course and permission of program chairperson and instructor.

**IS 490 Directed Research in International Studies (2, 4, 6 or 8)**

Research relating to area of specialization including a senior essay or research paper. Supervised by an international studies instructor.

Prerequisite: Senior standing and permission of program chairperson and instructor.

# DEPARTMENT OF LINGUISTICS

**Chairperson:** William Schwab

**Professors:** Peter J. Binkert (*Linguistics, Classics*) and William Schwab (*Linguistics, English*)

**Associate professor:** Daniel H. Fullmer (*Linguistics, English*)

**Assistant professor:** Lucinda Hart-Gonzalez (*Linguistics, Sociology and Anthropology*)

**Associated faculty:** Professors Carlo Coppola (*Modern Languages and Literatures, Linguistics*) and Donald C. Hildiam (*Rhetoric, Communications and Journalism, Linguistics*); Associate Professors John W. Barthel (*Modern Languages and Literatures, Linguistics*), Associate Professor Alice S. Horning (*Rhetoric, Communications and Journalism, Linguistics*) and Don Iodice (*Modern Languages and Literatures, Linguistics*)

Linguistics is concerned with the objective study of language, language history, comparison of languages and with theories about human languages and their implications in language acquisition and learning theory. As recent research has indicated, linguistics plays a pivotal role in studies dealing with the nature of the mind. Rapid expansion of knowledge in linguistics has involved such fields as anthropology, computer and information science, language teaching, speech pathology, sociology, and dialectology, and has produced the new disciplines of biolinguistics, computational linguistics, psycholinguistics and sociolinguistics as exciting and viable fields.

The Department of Linguistics offers a cross-disciplinary liberal arts major in linguistics leading to the Bachelor of Arts degree, a modified liberal arts major in linguistics with a concentration in computer and information science, concentrations in linguistics with a modified major in departments of the College of Arts and Sciences, and a minor in linguistics.

The department also offers a graduate program with several specializations in linguistics. For more information, see the *Oakland University Graduate Catalog*. Students interested in a secondary teaching major in language arts should consult the chair or the chief academic adviser of the department.

## Requirements for the liberal arts major in linguistics

To earn a liberal arts major in linguistics, students must complete:

1. 32 credits in linguistics courses to include LIN 301, LIN 403 and LIN 404. Only 12 of these credits may be in ALS courses.
2. 8 credits in a cognate area — anthropology, computer science and engineering, English, modern languages, philosophy, psychology, sociology or communication arts.
3. Either:
  - a) one year of foreign language study or demonstrated first-year proficiency or one year of American Sign Language, or
  - b) two semesters of LIN 410: "Studies in the Structure of a Language," one Indo-European and one non-Indo-European.

## Requirements for the modified major in linguistics with a minor in computer science and engineering

To earn the minor, students must complete:

1. 24 credits in linguistics courses to include LIN 301, LIN 403 and LIN 404. Only 8 of these credits may be in ALS courses.
2. 16 credits in CSE, including CSE 125, CSE 220 and CSE 335, and one elective.
3. PHL 370.

## Departmental honors

The Department of Linguistics offers departmental honors to students who achieve a grade point average of 3.60 or above in specified courses. In the case of the liberal arts major the courses include the eight required LIN and ALS courses and the two courses in the cognate area. In the case of the modified major with a concentration in computer science and engineering the courses include the six required LIN and ALS courses, the four required CSE courses and PHL 370.

The department also recommends honors for students who have modified majors in other departments with concentrations in linguistics.

## Requirements for the liberal arts minor in linguistics

Twenty credits in linguistics courses, to include:

1. ALS 176 or one 200-level LIN course
2. LIN 301
3. At least 12 credits at the 300 or 400 levels
4. At least 4 credits at the 400 level

## Requirements for a concentration in linguistics with modified majors in other departments

Students may elect a modified major in anthropology, communication arts, English, philosophy, psychology, or sociology, and may concentrate in linguistics at the same time.

Requirements are:

1. 20 credits in LIN or ALS courses, including:
  - a) LIN 301
  - b) For a major in: anthropology, ALS 375; communication arts, LIN 401; English, LIN 303; philosophy, LIN 407; psychology, ALS 335; sociology, ALS 376
2. For requirements in the modified majors, consult the appropriate department.

## Course Offerings

### APPLIED LANGUAGE STUDIES

#### ALS 102 Studies in Vocabulary and Etymology (4)

A basic course in vocabulary building. The origin of scientific and literary terms; foreign phrases in current use; borrowing of words into English from other languages, the relationship between meaning and culture; and meaning and context. Course not applicable to LIN programs.

#### ALS 176 The Humanity of Language (4)

An introduction to the interrelationships of language and other cultural subsystems. Linguistic knowledge, the child's acquisition of language, sound and writing systems, meaning and communication, language and social groups are among the topics discussed. Satisfies the university general education requirement in language.

#### ALS 328 Theory and Practice in Language Testing (4)

A study of the different types of aptitude and achievement tests used in different language settings, including research and educational situations. Brief introduction to test statistics and computerized analysis of test scores. Practical aspects of testing: design, scoring and administration.

Prerequisite: LIN 301.

#### ALS 334 Language Development in Children (4)

Language acquisition in normal and abnormal children: stages of the acquisition process; the role of the environment; the relationship between language and the development of other skills; language acquisition in children with sensory or psychological disorders.

Prerequisite: ALS 176 or one course in LIN.



**ALS 335 Psycholinguistics (4)**

The psychology of language, the accommodation between the cognitive and physical structure of humans and the structure of language, the nature of the language learning process, and the consequences of language use. Identical with PSY 335.

Prerequisite: One course in ALS or LIN and one course in PSY.

**ALS 340 The Biology of Language (4)**

Animal communication and the evolution of man's capacity for language; development of language in normal and abnormal children, disorders of speech, hearing and language, language and the brain, and genetic aspects of language.

Prerequisite: ALS 176 or one course in LIN.

**ALS 360 Neurolinguistics (4)**

The neurology of language: essentials of neuroanatomy; neurological mechanisms underlying language; aphasia and kindred disorders of speech; the relationship of language to memory, intelligence, and cognition; language and mental retardation and psychological disorders.

Prerequisite: ALS 176 or one course in LIN.

**ALS 373 Ethnography of Communication (4)**

The systematic description of the interaction of linguistic form, participants, setting and modes of interaction. Comparison of similar communicative events in simple and complex societies. Readings and guided student research. Identical with AN 373.

Prerequisite: One course in ALS or LIN or AN 102 or SOC 100.

**ALS 374 Cross-Cultural Communication (4)**

A theoretical and practical examination of the role of language and nonverbal modes in intercultural communication. Problems and strategies for developing awareness of and operational skills in intercultural processes. Identical with AN 374 and SCN 374.

Prerequisite: One course in ALS or LIN.

**ALS 375 Language and Culture (4)**

Language viewed as cultural behavior, its system, acquisition and use; its relation to history, attitudes and behavior; standard languages; social dialects; pidgins and creoles. Identical with AN 375.

Prerequisite: One course in ALS, LIN or AN 102.

**ALS 376 Sociolinguistics (4)**

Language in its social context; intrasocietal variation; social evaluation of language varieties (style, dialect) as an influence in language change; and the choice of a language variety as an index of group solidarity, social ideology and individual attitudes. Identical with SOC 376.

Prerequisite: One course in ALS or LIN or SOC.

**ALS 420 Linguistics and Reading (4)**

A study of the English writing system: a close examination of spelling and morphology, ambiguity, dialect interference and derivational vocabulary.

Prerequisite: LIN 301.

**ALS 428 The Teaching of English as a Second Language (4)**

Approaches, methods and techniques of teaching pronunciation; grammar and vocabulary. The use of language tests and laboratory techniques.

Prerequisite: LIN 301.

**ALS 429 Practicum (2 or 4)**

Supervised experience in some area of applied linguistics, such as working with nonnative speakers of English, tutoring, or other appropriate field work or internship, to be approved by the Department of Linguistics.

Prerequisite: ALS 428.

**LINGUISTICS****LIN 115 Natural and Artificial Languages (4)**

A study of the similarities and differences among the languages of men, beasts and machines. Includes general characteristics of communication, human linguistic abilities, computer languages and human/computer interfaces. Identical with CSE 115.

**LIN 204          Syntax (4)**

An introduction to the basic principles of morphological and syntactic structure with emphasis on modern American English.

**LIN 207          Semantics (4)**

The study of meaning, which involves the relation between speaker, the language and the real, or imagined, world. Attention is given to modern theories about the organization of thought. Identical with SCN 207. Satisfies the general education requirement in language.

**LIN 300          Topics in Linguistics (4)**

Topics and problems selected by the instructor.

**LIN 301          Linguistic Structures (4)**

An introduction to synchronic linguistic analysis, with structural problems in natural languages. Prerequisite: ALS 176 or one 200-level LIN course.

**LIN 302          Historical Linguistics (4)**

Diachronic linguistic analysis: language change, dialect geography, establishment of genealogical relationships, the reconstruction of earlier stages of languages and the relationship of language change to synchronic analysis.

Prerequisite: LIN 301.

**LIN 303          Sound Patterns of American English (4)**

The fundamentals of articulatory phonetics with studies in American social and geographic dialects.

Prerequisite: LIN 301.

**LIN 315          Computer Parsing of Natural Languages (4)**

An examination of the syntactic and semantic properties of natural language and a survey of the techniques for computer parsing. Student projects in the computer analysis of language. Identical with CSE 315.

Prerequisite: LIN 115 or ALS 176 and CSE 130.

**LIN 401          Phonetic Theory (4)**

An introduction to articulatory and acoustic descriptions of spoken language and training in the recognition and production of sounds found in languages other than English. Identical with SCN 401.

Prerequisite: LIN 301.

**LIN 403          Phonological Theory (4)**

A presentation of theory and application of phonological analysis with emphasis on original work.

Prerequisite: LIN 301.

**LIN 404          Syntactic Theory (4)**

A presentation of theory and application of morphological and syntactic analysis, with emphasis on original work.

Prerequisite: LIN 301.

**LIN 407          Semantic Theory (4)**

An inquiry into contemporary efforts to formulate and articulate a theory of meaning adequate for the analysis of natural language, with emphasis on the relation between syntactic and semantic analysis.

Prerequisite: LIN 301.

**LIN 410          Studies in the Structure of a Language (4)**

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 and Sanskrit.

Prerequisite: LIN 301.

**LIN 475          Philosophy of Language (4)**

Identical with PHL 475.

**LIN 480          Seminar in Linguistics (4)**

Topics and problems selected by the instructor.

Prerequisite: LIN 301.

**LIN 490          Independent Study (2 or 4)**

Special research projects in linguistics.

Prerequisite: Permission of Department of Linguistics.

# DEPARTMENT OF MATHEMATICAL SCIENCES

**Chairperson:** *Donald G. Malm*

**Professors:** *Harvey J. Arnold, Louis R. Bragg, John W. Dettman, George F. Feeman, G. Philip Johnson, Donald G. Malm, James H. McKay, Louis J. Nachman, Irwin E. Schochetman, Sze-Kai Tsui*

**Associate professors:** *Kevin T. Andrews, Baruch Cahlon, Charles C. Cheng, J. Curtis Chipman, David J. Downing, Jon Froemke, Jerrold W. Grossman, Eli Maor, Subbaiah Perla, Darrell Schmidt, J. Barry Tietz, Stuart S. Wang, Stephen J. Wright*

**Assistant professors:** *Asuman Aksoy, Mary P. Coffey, Marcia Feingold, Devadatta Kulkarni, T. N. Subramaniam, Miguel Villalobos*

**Visiting associate professor:** *Alan Winterbottom*

**Adjunct professors:** *Joseph Assenzo, Seth Bonder, Gary C. McDonald, Edward F. Moylan, John A. Scott*

The Department of Mathematical Sciences offers programs of study leading to the Bachelor of Arts degree with a major in mathematics, Bachelor of Science degree with a major in mathematical sciences, Master of Science degree in applied mathematics, Master of Science degree in applied statistics and Master of Arts in Teaching in mathematics. In addition, the department offers courses that are required or recommended as electives in other academic programs. For further information on the graduate programs offered by the department, see the *Oakland University Graduate Catalog*.

Whether in the B.A. or B.S. program, students are encouraged to elect a variety of applied courses, both inside and outside of the department. The greater the familiarity with applications of mathematics, the greater the possibilities of employment in a world that is becoming more mathematics-oriented each year. Concentrations or minors, or even second majors, are available in computer science, the life sciences, the physical sciences, engineering, economics and management, the social sciences and linguistics. Mathematics majors are advised to consult department faculty before planning their programs.

The department recommends that all students majoring or minoring in mathematics, in either the B.A. or B.S. program, acquire in their first or second year a programming ability at the level of CSE 132. Additional programming requirements exist for B.S. degree candidates.

## Prerequisites and placement examinations

Each student enrolling in a course offered by the Department of Mathematical Sciences must meet the prerequisites for that course. Students who do not meet the prerequisites will not be permitted to enroll or remain enrolled in the course.

The prerequisites may be met in a number of ways: by completing the stated prerequisite course(s) with a grade of 2.0 or better; by completing an equivalent course at another university, college or community college with a grade of 2.0 or better; or by placing sufficiently high on the placement test given by the department.

Grades below 2.0 in prerequisite courses are not acceptable, nor are high school courses. In rare cases, the department may grant permission to enroll in a course without the formal prerequisites; students with unusual circumstances should consult the instructor of the course or a department adviser.

The placement test covers the algebra and trigonometry that are normally taught in good high school college-preparatory programs. Successful performance on the placement test will enable a student to enter a regular college-level math course (MTH 121, MTH 122, MTH 154, MTH 185, STA 225 or MTE 210) without having to take MTH 111\* ("Elementary Algebra"), MTH 112\* ("Intermediate Algebra") or MTH 141 ("Precalculus").

Students who test deficient in these subjects must take the appropriate prerequisite course(s) — or the equivalent at another university, college or community college — before attempting the regular courses. The levels of placement are as follows:

E: The student must start in MTH 111\*

I: The student has demonstrated competence through MTH 111\* and is ready for MTH 112\* or MTH 185

R: The student has demonstrated competence through MTH 112\* and is ready for MTH 121, MTH 141, MTH 185, MTE 210 or STA 225

C: The student has demonstrated competence through MTH 141 and is ready for MTH 121, MTH 122, MTH 154, MTH 185, MTE 210 or STA 225

Formal course competency credit is not available in MTH 111\*, MTH 112\* or MTH 141.

\*See information concerning these courses below.

### **Skill development courses: MTH 111 and MTH 112**

MTH 111 and MTH 112 are skill development courses specially designed to aid incoming students who have significant deficiencies in their mathematics background. Effective September 1988, these courses will be renumbered to MTH 011 and MTH 012 respectively. After this date, credits earned in these courses may no longer be used to satisfy minimal graduation requirements in any academic program, although they will be used in computing G.P.A.

### **Requirements for the liberal arts major in mathematics, B.A. program**

To earn the Bachelor of Arts degree with a major in mathematics, students must:

1. Complete a minimum of 41 credits in mathematical sciences: MTH 154, MTH 155, MTH 254, MTH 256, MTH 351, MTH 475, one of STA 226, APM 257 or APM 263, and additional courses labeled APM, MOR, MTH or STA that are above the 300 level, including one course above the 400 level other than MTH 414 or MTH 497. (MTH 414, however, can count toward the major.)
2. Complete five courses outside the Department of Mathematics in areas related to mathematics. It is recommended that at least two of these courses be in science.
3. Earn a minimum grade of 2.0 in each mathematical science course used to satisfy the major requirements in mathematical sciences.

Students interested in a secondary teaching major in mathematical sciences should consult the chair or the chief academic adviser of the department.

### **Requirements for the major in mathematical sciences, B.S. program**

To earn the Bachelor of Science degree with a major in mathematics, students must:

1. Complete a core of 26 credits in mathematical sciences: MTH 154, MTH 155, MTH 254, MTH 256, APM 257, APM 331, STA 226.
2. Complete an approved program of 20 additional credits in mathematical sciences courses from the areas below, including at least two courses from a single area, with at least two areas represented:
  - a. Applicable analysis and mathematical modeling (APM 332, APM 357, APM 435, APM 455)

- b. Discrete mathematics (APM 263, APM 463)
  - c. Numerical analysis (APM 335, APM 336)
  - d. Operations research (MOR 342, MOR 346)
  - e. Pure mathematics (MTH 351, MTH 352, MTH 361, MTH 372, MTH 415, MTH 453, MTH 461, MTH 465, MTH 475, MTH 476)
  - f. Statistics (STA 322, STA 323, STA 324, STA 425, STA 427, STA 428).
3. Complete 16 credits in an area related to the student's option outside the department.
  4. Earn a minimum grade of 2.0 in each mathematical sciences course used to satisfy the major requirements in mathematical sciences.
  5. Complete CSE 132 and CSE 262 with an average grade of at least 2.0 (or equivalent).

### Departmental honors

Departmental honors may be awarded to graduating seniors in either the B.A. or the B.S. degree program who have demonstrated outstanding achievement in their mathematics course work, as evidenced by high grades, high level courses and/or more than a minimum number of courses. Further information is available from the department chairperson.

### Requirements for the liberal arts minor in mathematics

To qualify for the liberal arts minor in mathematics, a student must take 20 credits of departmental course work beyond MTH 154. These credits must include MTH 155, MTH 254 and MTH 256. Two additional courses must be chosen from among STA 226, MTH 351, APM 257, APM 331, APM 263 or any 400-level course from the APM, MOR, MTH or STA listings except MTH 414 and MTH 497.

Students majoring in engineering or computer and information science should consult "Concentrations and minors" in the School of Engineering and Computer Science section of this catalog (page 224) for information on minors in applied mathematics and applied statistics.

### Requirements for the secondary teaching minor in mathematics

To qualify for the secondary teaching minor in mathematics, a student must take 20 credits of departmental course work. Only MTH 154 and courses with at least MTH 154 as a prerequisite may be used to satisfy this requirement. It is recommended that the student select his or her courses from among MTH 154, MTH 155, MTH 254, MTH 256 and MTH 361; APM 257, APM 263, APM 331 and APM 332; STA 226 and STA 322; and MOR 342 and MOR 346.

In addition to the field experiences required for secondary education certification (tutoring in ED 428 and student teaching in ED 455), other field experiences are available in several areas of community service. Interested students should consult the department chairperson for detailed information.

### Minor in computer science for mathematics majors

The requirements for a minor in computer science are determined by the School of Engineering and Computer Science. For this minor, students must complete 20 credits of CSE courses from the following:

1. A maximum of 8 credits from CSE 125 and CSE 132.
2. A maximum of 8 credits from CSE 220, CSE 248, CSE 280 and CSE 262.
3. A maximum of 4 credits from the "Programming Language Labs."
4. A minimum of 8 credits taken from CSE 335, CSE 340, CSE 343, CSE 345 or any other 400-level CSE course approved by your adviser.

## Course Offerings

### MATHEMATICS

#### MTH 100 Topics in Elementary Mathematics (2 or 4)

A selection of topics designed to develop the student's awareness and appreciation of mathematics with an emphasis on problem solving. Includes individualized reinforcement of basic arithmetic skills, as well as a laboratory and reading component.

Prerequisite: Placement in Summer Support Program.

#### MTH 111\* Elementary Algebra (4)

Review of order of operations, integral exponents, square roots; linear equations in one variable, polynomial arithmetic, factoring, quadratic equations, points and lines in the coordinate plane, 2 by 2 and 3 by 3 systems of linear equations, story problems, absolute value linear inequalities in one variable intervals on the real line. *Effective September 1988, MTH 111\* will be numbered MTH 011. Credits earned after this date may not be used to satisfy minimal graduation requirements in any academic program.*

Prerequisite: Some previous exposure to algebra recommended.

#### MTH 112\* Intermediate Algebra (4)

Algebraic fractions, nonlinear inequalities, analytic geometry (distance, circles, parabolas, hyperbolas), the algebra of exponents, radicals and logarithms; problem solving. *Effective September 1988, MTH 112\* will be renamed MTH 012. Credits earned after this date may not be used to satisfy minimal graduation requirements in any academic program.*

Prerequisite: MTH 111\* or placement.

#### MTH 121 Linear Programming, Elementary Functions (4)

Systems of equations, matrices, linear programming (simplex method); rational, exponential and logarithmic functions. *Satisfies the university general education requirement in mathematics, logic and computer science.*

Prerequisite: MTH 112\* or placement.

#### MTH 122 Calculus for the Social Sciences (4)

The basic concepts, theorems and applications to the social sciences of the differential and integral calculus of one and several variables. *Satisfies the university general education requirement in mathematics, logic and computer science.*

Prerequisite: MTH 121 or MTH 141 or placement.

#### MTH 141 College Algebra and Trigonometry (4)

Functions, roots of polynomials, analytic geometry, rational, exponential and logarithmic functions, trigonometric functions (including graphs, identities, inverse functions, equations and applications), complex numbers, induction, series and sequences.

Prerequisite: MTH 112\* or placement.

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

A comprehensive study of analytic geometry, limits, differentiation and integration of functions of one real variable, including transcendental functions, infinite series, indeterminate forms, polar coordinates, numerical methods and applications. Each is offered fall and winter semester. *MTH 154 satisfies the university general education requirement in mathematics, logic and computer science.*

Prerequisite: MTH 141 or placement.

#### MTH 185 Mathematics — An Exploration into Undergraduate Topics (4)

Topics selected from probability, calculus, linear algebra, group theory, number theory, abstract algebra, topology, projective geometry, logic and foundations. *Satisfies the university general education requirement in mathematics, logic and computer science.*

Prerequisite: MTH 111\* or placement.

#### MTH 254 Multivariable Calculus (4)

A study of vectors, polar coordinates, three-dimensional geometry, differential calculus of functions of several variables, exact differential equations, multiple integrals, line and surface integrals, and vector fields.

Prerequisite: MTH 155.

**MTH 256 Introduction to Linear Algebra (3)**

An introduction to systems of linear equations, vectors and matrices with emphasis on applications and computational techniques. Gaussian elimination, matrix algebra, determinants, eigenvalues and eigenvectors, linear transformations, vector spaces.

Prerequisite: MTH 155.

**MTH 290 Independent Study (2 or 4)**

Reading or research on some mathematical topic.

Prerequisite: Permission of department.

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

A rigorous introduction to sets, sequences, series, topology of the real line, functions, continuity, uniform convergence, differentiation, Riemann integration and Fundamental Theorem of Calculus.

Prerequisite: MTH 254 and MTH 256.

**MTH 352 Complex Variables (4)**

A study of analytic functions of a complex variable including differentiation and integration, series representations, the theory of residues and applications.

Prerequisite: MTH 254.

**MTH 361 Geometric Structures (4)**

A study of topics from Euclidean geometry, projective geometry, non-Euclidean geometry and transformation geometry.

Prerequisite: MTH 256 or permission of instructor.

**MTH 372 Number Theory (4)**

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

Prerequisite: MTH 155.

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

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

Prerequisite: Permission of department.

**MTH 414 History of Mathematics (4)**

Mathematics from ancient to modern times, its growth, development and place in human culture.

Prerequisite: MTH 351 or APM 331 or permission of instructor.

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

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 APM 331.

**MTH 453 Multivariable Analysis (4)**

The topology of  $R_n$ , curves in  $R_n$ , derivatives and differentials, Lagrange multipliers, Taylor's formula, inverse and implicit function theorems, manifolds, multiple integrals, multilinear forms, differential forms and closed and exact forms.

Prerequisite: MTH 351 or APM 331.

**MTH 461 General Topology (4)**

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

Prerequisite: MTH 351 or APM 331.

**MTH 465 Differential Geometry (4)**

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

Prerequisite: MTH 351 or APM 331.

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

Algebra of sets and mappings, groups and homomorphisms, rings and ideals, factorization and divisibility, vector spaces, linear transformations, fields and field extensions.

Prerequisite: MTH 256.

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

Research on some mathematical topic.

Prerequisite: Permission of department.

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

Open to any well-qualified upperclassperson 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 department.

**APPLICABLE ANALYSIS AND MATHEMATICAL MODELING****APM 257 Introduction to Differential Equations (3)**

An introduction to the basic methods of solving ordinary differential equations, including the methods of undetermined coefficients, variation of parameters, series, Laplace transforms and numerical methods. Separable, exact and linear equations. Applications.

Prerequisite: MTH 155.

**APM 263 Discrete Mathematics (4)**

An introduction to discrete mathematical structures with emphasis on their application to computer and information science. Topics drawn from the areas of set theory and relations, Boolean algebras, strings and graphs. Some programming experience is recommended.

Prerequisite: MTH 155.

**APM 331 Applied Analysis (4)**

Infinite series. Uniform and absolute convergence, differentiation and integration of series. Taylor's formula and series. Advanced calculus — the derivative as a linear transformation, multiple integration.

Prerequisite: MTH 254 and MTH 256.

**APM 332 Applied Matrix Theory (4)**

Eigenvalues, eigenvectors and their applications, matrix calculus, linear differential equations, Jordan canonical forms, quadratic forms. Time will also be spent on various computational techniques.

Prerequisite: MTH 256 and APM 257.

**APM 357 Elements of Partial Differential Equations (4)**

Partial differential equations of physics, Fourier methods, Laplace transforms, orthogonal functions, initial and boundary value problems and numerical methods.

Prerequisite: APM 257.

**APM 405 Special Topics (2 or 4)**

Advanced study of a selected topic in applied mathematics. May be taken more than once.

Prerequisite: Permission of department.

**APM 407 Mathematics for Engineering (4)**

Elementary ordinary differential equations, linear algebra, matrix operations and numerical methods. Closed to math majors.

Prerequisite: MTH 155.

**APM 433 Numerical Methods (4)**

Propagation of errors, approximation and interpolation, numerical integration, methods for the solution of equations, Runge-Kutta and predictor-corrector methods. Credit will not be granted for both APM 433 and CSE 417.

Prerequisites: MTH 256, APM 257 and a knowledge of a scientific programming language, or permission of the instructor.

**APM 434 Applied numerical Methods: Matrix Methods (4)**

Systems of linear equations, Gaussian elimination, LU factorization, approximation and curve fitting, eigenvalue problems, nonlinear systems. Credit will not be granted for both APM 434 and CSE 418.

Prerequisites: MTH 254, 256 and a knowledge of a scientific programming language, or permission of the instructor.



**APM 435 Introduction to Mathematical Science (4)**

The algebraic structures of scientific phenomena. Differential equations and dynamical systems. Partial differential equations of the physical and life sciences. Introduction to mathematical modeling.  
Prerequisite: APM 257 and MTH 257.

**APM 455 Intermediate Ordinary Differential Equations (4)**

Review of elementary techniques, existence and uniqueness theory, series methods, systems of equations, oscillation and comparison theorems, Sturm-Liouville Theory, stability theory and applications.  
Prerequisite: APM 257 and APM 331 or MTH 351.

**APM 463 Graph Theory and Combinatorial Mathematics (4)**

Introduction to combinatorics. Topics include techniques of enumeration, fundamental concepts of graph theory, applications to transport networks, matching theory, and block design.  
Prerequisite: MTH 256 and APM 263.

**APM 490 Independent Study (2 or 4)**

Reading or research on some topic in applied mathematics.  
Prerequisite: Permission of department.

**STATISTICS****STA 225 Probability and Statistics (4)**

Descriptive statistics, probability, binomial and normal distributions, sampling methods, confidence intervals, hypothesis testing, regression and correlation, chi-square tests. *Satisfies the university general education requirement in mathematics, logic and computer science.*  
Prerequisite: MTH 112\* or placement.

**STA 226 Applied Statistics (4)**

Introduction to statistics as applied to the physical, biological and social sciences and to engineering. Applications of special distributions and nonparametric techniques. Regression analysis and analysis of variance.  
Corequisite: MTH 122 or MTH 154.

**STA 322 Regression Analysis (4)**

Basic results from probability and statistics, linear regression, model testing and transformations, matrix methods in multiple regression, polynomial regression, indicator variables, stepwise and other search procedures.  
Prerequisite: STA 226 or permission of instructor.

**STA 323 Design of Experiments (4)**

Planning of experiments, completely randomized, randomized block and Latin square designs, incomplete blocks, factorial and fractional factorial designs, confounding, response surface methodology.  
Prerequisite: STA 226 or permission of instructor.

**STA 324 Data Analysis (4)**

Selected topics in statistical methodology with major emphasis on analysis of categorical data and nonparametric methods for location and scale.  
Prerequisite: STA 226 or permission of instructor.

**STA 405 Special Topics (2 or 4)**

Advanced study of a selected topic in statistics. May be taken more than once.  
Prerequisite: Permission of department.

**STA 425 Elements of Stochastic Processes (4)**

Random walk models, Markov chains and processes, birth and death processes, queuing processes, diffusion processes and non-Markov processes.  
Prerequisite: STA 226 and APM 331.

**STA 427-428 Introduction to Mathematical Statistics (4 each)**

The distribution of random variables, conditional probability and stochastic independence, special distributions, functions of random variables, interval estimation, sufficient statistics and completeness, point estimation, tests of hypothesis and analysis of variance.  
Prerequisite: MTH 254, MTH 256 and STA 226; or permission of instructor.

**STA 490 Independent Study (2 or 4)**

Reading or research on some statistical topic.

Prerequisite: Permission of department.

**OPERATIONS RESEARCH****MOR 342 Introduction to Operations Research (4)**

Topics will be drawn from deterministic models of operations research, such as linear programming, network analysis, dynamic programming, inventory control and integer programming.

Prerequisite: MTH 256 or MTH 121 and MTH 122 with 3.0 or better.

**MOR 346 Stochastic Models in Operations Research (4)**

Stochastic processes including Markov chains with applications to the development and analysis of queuing models. Further topics drawn from such areas as reliability, decision analysis, stochastic inventory control and simulation.

Prerequisite: MTH 254 and STA 226 or MTH 122 and QMM 250 with 3.0 or better.

**MATHEMATICS FOR ELEMENTARY EDUCATION MAJORS****MTE 210 Numerical Structures (4)**

Elementary set and number theory. Components of the real number system. History of numeration. Algorithms of arithmetic. Other general algebraic structures. Problem solving. Enrollment limited to education majors.

Prerequisite: MTH 112\* or placement.

**MTE 211 Geometry (4)**

An informal approach to geometry including topics from Euclidean and transformational geometries. Stress is placed on topics close to the elementary school curriculum such as mensuration formulae, ruler and compass construction, symmetries, congruence and similarity, and figures in two and three-space. Enrollment is limited to education majors.

Prerequisite: MTE 210.

**MTE 317 Vector Geometry (4)**

Geometry of the plane and space studied by means of vectorial ideas, independence of a set of vectors, and linear transformations. Mathematics laboratory project. Enrollment is limited to elementary education majors.

Prerequisite: MTE 211.

**MTE 410 Elementary School Mathematics and the Computer (4)**

Selected topics in mathematics useful to elementary school teachers in line with current curriculum developments. Computer-assisted programs will be emphasized. Enrollment is limited to elementary education majors.

Prerequisite: MTE 211, STA 225 and ED 396.

**MTE 418 Theory of Equations (4)**

Solution of equations in one unknown. Descartes' rule of signs, intermediate value theorem, Euclidean algorithm for polynomials, basic numerical methods for finding roots and systems of equations. Enrollment is limited to elementary education majors.

Prerequisite: MTE 210.

\*See information concerning this course on page 98.

# DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

**Chair:** *Renate Gerulaitis*

**Professors:** *Carlo Coppola (Hindi-Urdu), Alfred J. DuBruck (French), Jack R. Moeller (German), Norman Susskind (French), Amitendranath Tagore (Chinese)*

**Associate professors:** *John W. Barthel (German), William C. Bryant (Spanish), Dolores M. Bærdick (French), Renate Gerulaitis (German), Don R. Iodice (French), David Jaymes (French), John Marney (Chinese), Kathryn M. McArdle-Pigott (Spanish), Munibur Rahman (Hindi-Urdu)*

**Assistant professors:** *Patricia G. Montenegro (Spanish), Ronald F. Rapin (Spanish)*

**Chief adviser:** *Jack R. Moeller*

The Department of Modern Languages and Literatures offers programs leading to the Bachelor of Arts degree. The aim of the modern language curriculum is to help students acquire competence in the language of a given country or countries and, through the study of literature and civilization, to acquaint them with the cultural background of the country or countries. It also prepares students for graduate work, teaching, and careers in business or government service.

Students may wish to investigate the advantages of combining a knowledge of foreign languages and cultures with competence in other fields. There are standard concentrations, for example, in linguistics. Other majors such as political science, English, art and music are enriched by the knowledge of a foreign language and culture. Students interested in study or work abroad, graduate study or non-academic careers should get help from special advisers in the department familiar with the possibilities in these areas.

The selection of a foreign language should be a reasoned one. It is usually best to continue with a language begun in high school. However, students who wish to learn a language not widely taught at the secondary level should not hesitate to change. Those who need advice about these choices should consult with a department faculty member.

## Placement examinations

A modern language placement test is administered by the Special Advising Office. Students who enter Oakland University with previous work in French, German or Spanish and wish to continue to study one of these languages should take the appropriate placement test during summer orientation. Students are urged to consult with the department's advising office about the proper level of placement.

## Admission to major standing

To be eligible for a major in one or more foreign languages, a student must be admitted to major standing by the Department of Modern Languages and Literatures. Normally, a student should apply for major standing at the department office after having attained 56 credits and no later than three semesters before graduation. A student planning to graduate with a Bachelor of Arts degree will be admitted to major standing after completion of 8 credits at the 300 level with a minimum grade point average of 2.50.

### **Requirements for the liberal arts major in a modern language and literature**

The requirement is 32 credits at the 300 and 400 levels in the chosen language, culture and literature. In German, courses numbered 316, 317, 318, 370, 380, 408 and two 400-level literature courses must be included. French, Spanish and Russian require courses numbered 314, 316, 318, 370, 380 and 408, plus two 400-level literature courses. In all languages, two collateral courses are required: one in history or civilization and one numbered LIT 181 or 182. Students planning graduate work are strongly urged to study a second foreign language recommended by the department.

### **Requirements for the liberal arts major in two modern languages**

The requirement is 18 credits at the 300 and 400 levels in each of two languages. In French, Russian and Spanish, courses numbered 314, 316, 318, 355, 455 and 408 are required. German must include courses numbered 316, 317, 318, 355, 455 and 408. Chinese requires 18 credits at the 300-400 level.

Three collateral courses are required: LIN 301 and two courses in history or civilization, one in each language area, to be approved by the student's department adviser. LIT 181 and LIT 182 are recommended. Students are strongly advised to complete a minor in a complementary field such as economics and management. Most traditional graduate programs in language and literature will require students in this major to make up courses in literature.

### **Requirements for the modified liberal arts major in German with a concentration in German studies**

Students must complete 24 credits in German beyond second year and 20 credits in related fields. The German courses required are GRM 316, 317, 318, 355, 408, 370, 340 and 440. The courses required in related fields are HST 343, AH 345, MUS 100 or MUS 320, PS 372, LIT 182. In addition, students must choose two corequisites from among the following: HST 327, HST 341, AH 334, AH 365, MUS 345.

### **Requirements for the liberal arts major in a modern language with minors in economics, management or international economics**

Modified majors are available in French, German, Russian, Spanish and Chinese with minors in economics, management or international economics. The requirement in French, German, Russian or Spanish is 24 credits at the 300-400 level. In Chinese, the requirement is 16 credits at the 300-400 level, plus 12 credits in Chinese international studies including IS 210 and IS 490. Students should note the credit hour restriction for the minors in economics or management. (For those interested in a complete program in management, a Master of Business Administration degree program is offered. Consult the School of Business Administration section of this catalog.)

### **Departmental honors**

At the discretion of the department, departmental honors in a foreign language may be awarded to a graduating senior who completes a writing project, usually either a critical paper or a translation, of high quality and who maintains a grade point average in major courses of at least 3.60. Students who wish to be nominated for honors should consult a departmental adviser one year before graduation. In accordance with university policy, each year normally no more than one-third of the graduates may be nominated for departmental honors.

### **Requirements for the liberal arts major in Chinese language and civilization**

The requirement in Chinese language and civilization is 16 credits at the 300-400 level, selected from departmental offerings in consultation with an adviser. Twenty credits in East Asian studies, including IS 490, are also required. For further information, see the East Asian studies program, described on page 90.

### **Requirements for the liberal arts major in Latin American language and civilization**

The requirement in Spanish is 24 credits at the 300-400 level. An alternative is 16 credits in Spanish at the 300-400 level plus course work in French through FRH 214. Twenty credits are required in Latin American studies courses, including IS 490. For further information, see the Latin American studies program, described on page 91.

### **Requirements for the liberal arts major in Russian language and civilization**

The requirements are 16 credits in Russian language and civilization at the 300-400 level and 20 credits in Slavic studies courses, including IS 490. For further information, see the Slavic studies program, described on page 91.

### **Translation program**

Students may qualify for a translation certificate by completing language courses numbered 355, 455 and 491, and may then become candidates for the American Translators Association Accreditation Test. The 491 course does not apply toward the major.

### **Requirements for the liberal arts minor in a modern language and literature**

Minors are available in French, German, Russian or Spanish language and literature. The requirement is 20 credits beyond the 115 level, including 370 and 380.

### **Requirements for the liberal arts minor in a modern language**

Minors are available in French, German, Russian or Spanish language. The requirement is 20 credits beyond 114-115. French, Russian and Spanish must include courses numbered 214, 215, 314, 316 and 318, and 4 credits from courses numbered 355, 408, 455 and 457. German requires courses numbered 214, 215, 316, 317 and 318, and 4 credits from courses numbered 355, 408, 455 or 457.

### **Requirements for the modified liberal arts minor in German studies**

Students must complete 22 credits in German beyond first year. The courses required are GRM 214, 215, 316, 317, 318, 340 and 440. HST 343 is also required.

### **Requirements for the secondary teaching minor in a modern language**

The requirement for a secondary teaching minor in a modern language is 20 credits in one language. Of these, 16 credits must be at the 300-400 level, including 314, 316 and 370 in French, Russian and Spanish and 316, 317, 318 and 370 in German.

## Requirements for an elementary teaching concentration in a modern language

For students who wish to teach a foreign language at the elementary or junior high school level, the requirement is 36 credits in one language, including elementary and intermediate courses. For complete details on other requirements, including courses in education, consult the School of Human and Educational Services section of this catalog.

## Course Offerings

### CHINESE LANGUAGE AND LITERATURE

#### CHE 114-115 Introduction to Chinese and Chinese Culture (4 each)

A two-semester sequence in the fundamentals of modern Mandarin Chinese (kuo-yu) and Chinese culture. A beginning course for students who have had no more than one year of secondary-school-level preparation. CHE 114 must be taken first. CHE 114 satisfies the university general education requirement in language.

#### CHE 214-215 Second Year Chinese (4 each)

A two-semester sequence continuing the work of CHE 114-115, with the addition of cultural and literary readings. CHE 214 must be taken first.

Prerequisite: One year of college Chinese or equivalent.

#### CHE 310 Literary Chinese (4)

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

Prerequisite: CHE 215.

#### CHE 330 Readings in Chinese Political Essays (4)

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

Prerequisite: CHE 215.

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

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

Prerequisite: CHE 215.

#### CHE 410 Chinese Fiction and Drama (4)

Studies in texts and criticism of fiction and drama, modern or classical.

Prerequisite: CHE 310.

#### CHE 440 Chinese Poetry (4)

Selections from either classical Tang and Sung Dynasty poems or from the post-May-fourth movement of poetry.

Prerequisite: CHE 310.

#### CHE 457 Business Chinese (4)

Introduction to the essential vocabulary and style specific to Chinese business as well as to the basic workings of the Chinese economy.

Prerequisite: CHE 215.

#### CHE 490 Directed Readings and Research in Chinese (2, 4 or 8)

For students with a high degree of competence in the language. May be conducted either in literary or modern Chinese. May be repeated for a total of 8 credits.

Prerequisite: Permission of instructor.

### FRENCH LANGUAGE AND LITERATURE

#### FRH 114-115 Introduction to French and French Culture (4 each)

A two-semester sequence in the fundamentals of French and French culture. A beginning course for students who have had no more than one year of secondary-school-level preparation. FRH 114 must be taken first.

FRH 114 satisfies the university general education requirement in language.

**FRH 214-215 Second Year French (4 each)**

A two-semester sequence continuing the work of FRH 114-115, with the addition of cultural and literary readings. FRH 214 must be taken first.

Prerequisite: FRH 114-115.

**FRH 216 Basic French Conversation (2)**

Designed to develop the student's ability to organize and express ideas in French with a minimum of inhibition.

Prerequisite: FRH 115.

**FRH 290 Directed Readings in French (2 or 4)**

A reading course for nonmajors in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor.

Prerequisite: FRH 215.

**FRH 313 French Phonetics (2)**

Group and individual practice in the sound system of French, with specific reference to interference from English. Both written and laboratory work required.

Prerequisite: FRH 215.

**FRH 314 Grammar Review Through Translation (4)**

Review of French grammar through translation of a variety of materials from English to French and French to English. Offered fall semester.

Prerequisite: FRH 215.

**FRH 316 Intermediate French Conversation (2)**

Provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language. Offered winter semester.

Prerequisite: FRH 215.

**FRH 318 French Composition (2)**

Practice in written composition. Techniques of textual analysis and exposition are introduced. Offered winter semester.

Prerequisite: FRH 314.

**FRH 351 French Civilization (4)**

An overview of contemporary life, education, and socio-economic conditions in France and other French-speaking countries. Conducted in French. Offered in alternate years.

Prerequisite: FRH 215.

**FRH 355 Translation: French (2)**

Translation from French to English of a range of materials from commercial and technical to literary, with an emphasis on idiomatic English. Offered winter semester.

Prerequisite: FRH 314.

**FRH 369 Field Experience in Teaching French in the Lower Grades (2 or 4)**

Provides supervised experience in teaching French in the elementary school. Graded S/U. May be repeated for credit once. Does not carry credit toward departmental major.

Prerequisite: FRH 215.

**FRH 370 Introduction to French Literature (4)**

A sampling of critical approaches to the study of selected masterpieces of French literature. Conducted in French. Offered fall semester.

Prerequisite: FRH 215.

**FRH 380 Survey of French Literature (4)**

A survey of the highlights of French literature. Intended to supplement the work of FRH 370. Conducted in French. Offered winter semester.

Prerequisite: FRH 370.

**FRH 408 Advanced Oral Practice in French (2)**

Practice in speaking at an advanced level, which may include style and delivery appropriate to formal and informal speaking situations. May include oral presentations, self-recording and critique.

Prerequisite: FRH 316.

- FRH 413 From the Middle Ages through the Sixteenth Century (4)**  
A study of works in various genres of several periods. Works and authors may include epics, bawdy tales, courtly romances, Villon, Rabelais and Montaigne. Conducted in French.  
Prerequisite: FRH 370.
- FRH 415 The Seventeenth and Eighteenth Centuries (4)**  
A study of works in various genres by leading French authors such as Pascal, Corneille, Racine, Moliere, La Fontaine, Montesquieu, Diderot, Rousseau and Voltaire. Conducted in French.  
Prerequisite: FRH 370.
- FRH 417 The Nineteenth Century (4)**  
A study of works in various genres by leading French authors such as Stendhal, Balzac, Hugo, Nerval, Flaubert, Zola, Baudelaire and Mallarme. Conducted in French.  
Prerequisite: FRH 370.
- FRH 418 The Twentieth Century (4)**  
A study of works in various genres by leading French authors such as Camus, Satre, Anouilh, Malraux and Gide. Conducted in French.  
Prerequisite: FRH 370.
- FRH 455 Translation into French (4)**  
Translation from English into French into a wide variety of materials ranging from commercial and technical to literary. Individual students may emphasize areas of interest. Offered fall semester in alternate years.  
Prerequisite: FRH 314, 318 and 355.
- FRH 457 Business French (4)**  
Introduction to the essential vocabulary and style specific to French business as well as to the basic workings of the French economy. All language skills receive equal stress.  
Prerequisite: FRH 314, 316 and 318.
- FRH 490 Independent Reading and Research (2, 4 or 8)**  
Directed individual research and reading for advanced French majors. May be repeated for a total of 8 credits.  
Prerequisite: Two 400-level French literature courses and permission of department.
- FRH 491 Independent Translation Project (4 or 8)**  
Directed annotated translation from French into English of a major work in the student's field. May not be counted toward the major.  
Prerequisite: FRH 355 and 455 and permission of department.

## GERMAN LANGUAGE AND LITERATURE

- GRM 111, 112 Supplementary Oral Practice in German (1 each)**  
A two-semester sequence of practice in listening to and speaking German, including supervised laboratory work and drill sessions. To be taken only in conjunction with GRM 114-115.
- GRM 114-115 Introduction to German and German Culture (4 each)**  
A two-semester sequence in the fundamentals of German and German culture. A beginning course for students who have had no more than one year of secondary-school-level preparation. GRM 114 must be taken first. GRM 114 satisfies the university general education requirement in language.
- GRM 214-215 Second Year German (4 each)**  
A two-semester sequence continuing the work of GRM 114-115, with the addition of cultural and literary readings. GRM 214 must be taken first.  
Prerequisite: GRM 114-115.
- GRM 290 Directed Readings in German (2 or 4)**  
A reading course for nonmajors interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor.  
Prerequisite: GRM 215.
- GRM 316 Intermediate German Conversation I (2)**  
Provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language. Should be taken concurrently with GRM 318. Offered winter semester.  
Prerequisite: GRM 215.



- GRM 317 Intermediate German Conversation II (2)**  
Provides practice in the free manipulation of the language. Offered winter semester.  
Prerequisite: GRM 316 or permission of instructor.
- GRM 318 German Composition (2)**  
Practice in written composition. Techniques of textual analysis and exposition are introduced. Should be taken concurrently with GRM 316. Offered fall semester.  
Prerequisite: GRM 215.
- GRM 340 German Culture I (4)**  
Culture in history: 1450-1900. The course covers the principal characteristics of culture and civilization generally regarded as important by German-speaking people themselves. Offered fall semester. Conducted in German.  
Prerequisite: GRM 215 or equivalent.
- GRM 355 Translation: German (4)**  
Translation from German to English of a range of materials from commercial and technical to literary, with an emphasis on idiomatic English. Offered winter semester.  
Prerequisite: GRM 316 and GRM 318.
- GRM 369 Field Experience in Teaching German in the Lower Grades (2 or 4)**  
Provides supervised experience in teaching German in the elementary school. Graded S/U. May be repeated for credit once. Does not carry credit toward departmental major.  
Prerequisite: GRM 215.
- GRM 370 Masterpieces of German Literature (4)**  
A survey. Offered fall semester. Conducted in German.  
Prerequisite: GRM 215.
- GRM 380 Introduction to the Study of German Literature (4)**  
A sampling of critical approaches to the study of selected works of German literature. Conducted in German. Offered winter semester.  
Prerequisite: GRM 370.
- GRM 408 Advanced Oral Practice in German (2)**  
Practice in speaking at an advanced level, which may include style and delivery appropriate to formal and informal speaking situations. May include oral presentations, self-recording and critique.  
Prerequisite: GRM 316, 317 or permission of instructor.
- GRM 413 From the Middle Ages through the Seventeenth Century (4)**  
A study of works in all genres by leading authors of the period including Walter von der Vogelweide, Wolfram von Eschenbach, Gottfried von Strassburg and Grimmelshausen. Conducted in German.  
Prerequisite: GRM 370 and 380.
- GRM 415 The Eighteenth Century (4)**  
A study of representative works of Lessing, Goethe and Schiller, which exemplify the intellectual and artistic currents of this period. Conducted in German.  
Prerequisite: GRM 370 and 380.
- GRM 417 The Nineteenth Century (4)**  
A study of works in all genres by leading authors of the period with 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 370 and 380.
- GRM 418 The Twentieth Century (4)**  
A study of modern German drama, poetry and prose. Conducted in German.  
Prerequisite: GRM 370 and 380.
- GRM 440 German Culture II (4)**  
German culture of the 20th century, with emphasis on the period since World War II and particularly the present. Offered winter semester. Conducted in German.  
Prerequisite: GRM 340 or reading ability at the third-year level.

**GRM 455 Translation into German (4)**

Translation from English into German of a wide variety of materials ranging from commercial and technical to literary. Individual students may emphasize areas of interest. Offered fall semester in alternate years.  
Prerequisite: GRM 318 and 355.

**GRM 457 Business German (4)**

Introduction to the essential vocabulary and style specific to German business as well as to the basic workings of the German economy. All language skills receive equal stress.  
Prerequisite: GRM 316 and 318.

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

Directed individual research and reading for advanced German majors. May be repeated for a total of 8 credits.  
Prerequisite: Two 400-level German literature courses and permission of department.

**GRM 491 Independent Translation Project (4 or 8)**

Directed annotated translation from German into English of a major work in the student's field. May not be counted toward the major.  
Prerequisite: GRM 355 and 455 and permission of department.

**HINDI-URDU LANGUAGE****HIU 114-115 Introduction to Hindi and Urdu Languages and Cultures (4 each)**

A two-semester sequence of the fundamentals of both Hindi and Urdu languages and cultures. HIUR 114 must be taken first. *HIUR 114 satisfies the university general education requirement in language.*

**HIN 214-215 Second Year Hindi (4 each)**

A two-semester sequence continuing the work of HIUR 114-115, with the addition of cultural and literary readings in Hindi. HIN 214 must be taken first.  
Prerequisite: HIUR 114-115.

**URD 214-215 Second Year Urdu (4 each)**

A two-semester sequence continuing the work of HIUR 114-115, with the addition of cultural and literary readings in Urdu. URD 214 must be taken first.  
Prerequisite: HIUR 114-115.

**HIU 390 Directed Readings in Hindi-Urdu (2 or 4)**

Directed readings for individual Hindi-Urdu students. May be repeated for a total of 8 credits.  
Prerequisite: Permission of instructor.

**ITALIAN LANGUAGE AND LITERATURE****IT 114-115 Introduction to Italian and Italian Culture (4 each)**

A two-semester sequence of the fundamentals of Italian and Italian culture. A beginning course for students who have had no more than one year of secondary-school-level preparation. IT 114 must be taken first. *IT 114 satisfies the university general education requirement in language.*

**IT 214-215 Second Year Italian (4 each)**

A two-semester sequence continuing the work of IT 114-115 with the addition of cultural and literary readings. IT 214 must be taken first.  
Prerequisite: IT 114-115.

**IT 390 Directed Readings in Italian (2 or 4)**

Directed individual readings in Italian. May be repeated for a total of 8 credits.  
Prerequisite: Permission of instructor.

**JAPANESE LANGUAGE AND LITERATURE****JPN 114-115 Introduction to Japanese and Japanese Culture (4 each)**

A two-semester sequence in the fundamentals of Japanese and Japanese culture. A beginning course, intended for students who have had no more than one year of secondary-school preparation. JPN 114 must be taken first. *JPN 114 satisfies the university general education requirement in language.*

**JPN 214-215 Second Year Japanese (4 each)**

A two-semester sequence continuing the work of JPN 114-115, with the addition of cultural and literary readings. JPN 214 must be taken first.

Prerequisite: JPN 114-115.

**JPN 390 Directed Readings in Japanese (2 or 4)**

Directed individual readings in Japanese. May be repeated for a total of 8 credits.

Prerequisite: Permission of instructor.

**RUSSIAN LANGUAGE AND LITERATURE****RUS 111, 112 Supplementary Oral Practice in Russian (1 each)**

A two-semester sequence of practice in listening to and speaking Russian, including supervised laboratory work and drill sessions. To be taken only in conjunction with RUS 114-115.

**RUS 114-115 Introduction to Russian and Russian Culture (4 each)**

A two-semester sequence in the fundamentals of Russian and Russian culture. A beginning course for students who have had no more than one year of secondary-school preparation. RUS 114 must be taken first. *RUS 114 satisfies the university general education requirement in language.*

**RUS 211, 212 Second Year Supplementary Oral Practice in Russian (1 each)**

A two-semester sequence of practice in listening to and speaking Russian, including supervised laboratory work and drill sessions. To be taken in conjunction with 214-215 only.

**RUS 214-215 Second Year Russian (4 each)**

A two-semester sequence continuing the work of RUS 114-115, with the addition of cultural and literary readings. RUS 214 must be taken first.

Prerequisite: RUS 114-115.

**RUS 290 Directed Readings in Russian (2 or 4)**

A reading course for nonmajors interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor.

Prerequisite: RUS 215.

**RUS 314 Grammar Review Through Translation (4)**

Review of Russian grammar through translation of a variety of materials from English to Russian and Russian to English. Offered fall semester.

Prerequisite: RUS 215.

**RUS 316 Intermediate Russian Conversation (2)**

Provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language. Should be taken concurrently with RUS 318. Offered winter semester.

Prerequisite: RUS 215.

**RUS 318 Russian Composition (2)**

Practice in written composition. Techniques of textual analysis and exposition are introduced. Should be taken concurrently with RUS 316. Offered winter semester.

Prerequisite: RUS 314.

**RUS 355 Translation: Russian (4)**

Translation from Russian to English of a range of materials from commercial and technical to literary, with an emphasis on idiomatic English. Offered winter semester.

Prerequisite: RUS 314.

**RUS 370 Introduction to Russian Literature (4)**

A sampling of critical approaches to the study of some masterpieces of Russian literature. Conducted in Russian. Offered fall semester.

Prerequisite: RUS 215.

**RUS 380 Survey of Russian Literature (4)**

Masterpieces of Russian literature. Conducted in Russian.

Prerequisite: RUS 370.

- RUS 400 Special Topics in Language (2 or 4)**  
Special problems or topics selected by the instructor. May be repeated for a total of 4 credits.  
Prerequisite: RUS 314, 316 and 318.
- RUS 408 Advanced Oral Practice in Russian (2)**  
Practice in speaking at an advanced level, which may include style and delivery appropriate to formal and informal speaking situations. May include oral presentations, self-recording and critique.  
Prerequisite: RUS 316.
- RUS 418 The Twentieth Century (4)**  
A study of works in all genres by Russian authors of the period, including Bunin, Lamiatin and Solzhenitsin. Conducted in Russian.  
Prerequisite: RUS 370 and 380.
- RUS 455 Translation into Russian (4)**  
Translation from English into Russian of a wide variety of materials ranging from commercial and technical to literary. Individual students may emphasize area of interest. Offered fall semester in alternate years.  
Prerequisite: RUS 318 and 355.
- RUS 480 Undergraduate Seminar (2 or 4)**  
Study of individual authors, selected themes, or critical problems.  
Prerequisite: Permission of department.
- RUS 490 Independent Reading and Research (2, 4 or 8)**  
Directed individual research and reading for advanced Russian majors. May be repeated for a total of 8 credits.  
Prerequisite: Two 400-level Russian literature courses and permission of department.
- RUS 491 Independent Translation Project (4 or 8)**  
Directed annotated translation from Russian into English of a major work in the student's field. May not be counted toward the major.  
Prerequisite: RUS 355 and 455 and permission of department.

## SPANISH LANGUAGE AND LITERATURE

- SPN 114-115 Introduction to Spanish and Spanish Culture (4 each)**  
A two-semester sequence in the fundamentals of Spanish and Spanish culture. A beginning course for students who have had no more than one year of secondary-school preparation. SPN 114 must be taken first. SPN 114 satisfies the university general education requirement in language.
- SPN 211, 212 Second Year Supplementary Oral Spanish (1 each)**  
A two-semester sequence of practice in listening to and speaking Spanish, including supervised laboratory work and drill sessions. To be taken in conjunction with 214-215 only.
- SPN 214-215 Second Year Spanish (4 each)**  
A two-semester sequence continuing the work of SPN 114-115, with the addition of cultural and literary readings. SPN 214 must be taken first.  
Prerequisite: SPN 114-115.
- SPN 290 Directed Readings in Spanish (2 or 4)**  
A reading course for nonmajors interested in research in a particular area. Approximately 50 hours of reading per credit; one conference weekly with the instructor.  
Prerequisite: SPN 215.
- SPN 300 Composition and Conversation (3)**  
Part of overseas study program only. Third- or fourth-year level, depending on student preparation.  
Prerequisite: SPN 215.
- SPN 313 Spanish Phonetics (2)**  
Group and individual practice in the sound system of Spanish, with specific reference to interference from English. Both written and laboratory work required.  
Prerequisite: SPN 215.

- SPN 314 Grammar Review Through Translation (4)**  
Review of Spanish grammar through translation of a variety of materials from English to Spanish and Spanish to English. Offered fall semester.  
Prerequisite: SPN 215.
- SPN 316 Intermediate Spanish Conversation (2)**  
Provides a transition between the carefully structured drills of other intermediate courses and free manipulation of the spoken language. Offered winter semester.  
Prerequisite: SPN 215.
- SPN 318 Spanish Composition (2)**  
Practice in written composition. Techniques of textual analysis and exposition are introduced. Offered winter semester.  
Prerequisite: SPN 314.
- SPN 351 Spanish Civilization (3)**  
Historical approach to Spanish culture and civilization, with emphasis on geography, social structure, philosophical thought, music, art and architecture. Part of overseas study program only.  
Prerequisite: Sophomore standing.
- SPN 355 Translation: Spanish (4)**  
Translation from Spanish to English of a range of materials from commercial and technical to literary, with an emphasis on idiomatic English. Offered winter semester.  
Prerequisite: SPN 314.
- SPN 369 Field Experience in Teaching Spanish in the Lower Grades (2 or 4)**  
Provides supervised experience in teaching Spanish in the elementary school. Graded S/U. May be repeated for credit once. Does not carry credit toward departmental major.  
Prerequisite: SPN 215.
- SPN 370 Introduction to Spanish Literature (4)**  
A sampling of critical approaches to the study of some masterpieces of Spanish literature. Conducted in Spanish. Offered fall semester.  
Prerequisite: SPN 215.
- SPN 380 Survey of Spanish Literature (4)**  
Masterpieces of Spanish literature. Conducted in Spanish. Offered winter semester.  
Prerequisite: SPN 370.
- SPN 408 Advanced Oral Practice in Spanish (2)**  
Practice in speaking at an advanced level, which may include style and delivery appropriate to formal and informal speaking situations. May include oral presentations, self-recording and critique.  
Prerequisite: SPN 316.
- SPN 411 Golden Age Poetry and Drama (4)**  
Reading and critical consideration of selected poetic and dramatic works of the period. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.
- SPN 412 Golden Age Prose (4)**  
Reading and critical consideration of selected prose works of the period. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.
- SPN 417 The Nineteenth Century (4)**  
A study of works in all genres by leading Spanish authors, including Galdos, Zorrilla, Becquer. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.
- SPN 418 The Twentieth Century (4)**  
A study of works in all genres by leading Spanish authors, including Unamuno, Machado, Lorca, Cela. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.

- SPN 420 Spanish-American Literature before 1888 (4)**  
A study of principal literary figures from the Colonial Period to Modernism. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.
- SPN 421 Spanish-American Literature since 1888 (4)**  
Masterworks of twentieth-century Spanish-American literature, including Fuentes, Asturias, Neruda, Borges. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.
- SPN 455 Translation into Spanish (4)**  
Translation from English into Spanish of a wide variety of materials ranging from commercial and technical to literary. Individual students may emphasize areas of interest. Offered fall semester in alternate years.  
Prerequisite: SPN 314, 318 and 355.
- SPN 457 Business Spanish (4)**  
Introduction to the essential vocabulary and style specific to Spanish business as well as to the basic workings of the Hispanic economy. All language skills receive equal stress.  
Prerequisite: SPN 314, 316 and 318.
- SPN 480 Undergraduate Seminar (2 or 4)**  
Study of individual authors, selected themes, or critical problems. Conducted in Spanish.  
Prerequisite: SPN 370 and 380.
- SPN 490 Independent Reading and Research (2, 4 or 8)**  
Directed individual research and reading for advanced Spanish majors. May be repeated for a total of 8 credits.  
Prerequisite: Two 400-level Spanish literature courses and permission of department.
- SPN 491 Independent Translation Project (4 or 8)**  
Directed annotated translation from Spanish into English of a major work in the student's field. May not be counted toward the major.  
Prerequisite: SPN 355 and 455 and permission of department.

## LITERATURES IN TRANSLATION

- LIT 100 Introduction to Asian Literature (4)**  
A survey of the four great Asian literary traditions: China, Japan, India and Middle East. Satisfies the university general education in literature.
- LIT 181 European Literature I (4)**  
A study of the main literary currents as reflected in continental European masterpieces up to 1850. All works read in English translations. Satisfies the university general education requirement in literature.
- LIT 182 European Literature II (4)**  
A study of the main literary currents as reflected in continental European masterpieces from 1850 to the present. All works read in English translations. Satisfies the university general education requirement in literature.
- LIT 251 Studies in Foreign Film (4)**  
A study of film as a mirror of the cultures and aesthetics of various societies. Topics to be selected by the instructor.
- LIT 346 Non-Western Theatre and Dramatic Literature (4)**  
A study of classical and modern theatre and dramatic literature from one or more areas: China, India, Japan. Identical with THA 346.
- LIT 375 Topics in Foreign Literature (4)**  
A study of the main literary currents of a particular century or era of a major foreign literature. Conducted at a site approved by the Center for International Programs. All works read in English translation. May not be used to satisfy requirements in the Department of Modern Languages and Literatures

## MODERN LANGUAGE

- ML 191-192 Tutorial in Foreign Language (4 each)**  
Instruction in the elements of a spoken or written foreign language such as Arabic, Bengali, Czech, Sanskrit, Catalan, etc. for which no regular course sequence exists here. May be repeated for credit in a different language each time.  
Prerequisite: Permission of instructor.

**ML 211 Diction for Singers, First Semester (4)**

A basic course to instruct voice students in the techniques for pronouncing foreign languages. Extensive work with the International Phonetic Alphabet, tapes, and native speakers. Italian and Latin will be stressed. Offered fall semester in alternate years.

**ML 212 Diction for Singers, Second Semester (4)**

A continuation of ML 211 with emphasis on German and French. Extensive work with transcription techniques, tapes and native speakers. Offered winter semester in alternate years.

Prerequisite: ML 211.

**ML 290 Topics Related to Foreign Language Study (2 or 4)**

Topics explored in areas not normally a part of regular offerings in language or literature. May be repeated for a total of 8 credits.

Prerequisite: Permission of instructor.

**ML 291-292 Intermediate Tutorial in Foreign Language (4 each)**

Intermediate work in a language and literature not normally taught at Oakland University. May be repeated for credit.

Prerequisite: Permission of instructor.

**ML 391-392 Advanced Tutorial in Foreign Language (4 each)**

Advanced work in a language not normally taught at Oakland University. May be repeated for credit.

**ML 399 Field Experience in a Modern Language (4)**

Field experience in an appropriate employment setting correlated with directed study assignments relating the experience to the knowledge and skills developed by the foreign language student. May not be repeated for credit.

Prerequisite: FRH or SPN 314, 316 and 318; GRM 316, 317 and 318.

# DEPARTMENT OF MUSIC, THEATRE AND DANCE

**Chairperson:** *David Daniels*

**Professors:** *David Daniels, Stanley Hollingsworth, Lyle Nordstrom*

**Associate professors:** *Raynold Allvin, James Dawson, John Douvaras, Robert Facko, Michael Gillespie, Carol Halsted, Marvin Holladay, Flavio Varani*

**Assistant professors:** *Laurie Eisenhower, Michael Naylor, John Paul White*

**Visiting assistant professors:** *Blair Vaughn Anderson, Kathy Devecka, William Ward*

**Adjunct professors:** *David Di Chiera, Terence E. Kilburn*

**Adjunct assistant professors:** *Joyce Adelson, Janice Albright, Thomas A. Aston*

**Lecturers:** *Jacqueline Ammond, Steven Carryer, Robert Conway, Frederic DeHaven, Walter Hill*

**String quartet in residence:** *Lafayette String Quartet*

**Applied music instructors:** *Joyce Adelson (piano), Janice Albright (voice), Mary Bartlett (harp), Clarence Beasley (jazz piano), Steven Carryer (jazz guitar), Douglas Cornelsen (clarinet), Penelope Crawford (harpsichord), James Dawson (saxophone), Frederic DeHaven (organ), Edith Diggory (voice), John Dion (horn), Pamela Dion (bassoon), Ann Elliott (violin), Robert Gladstone (double bass), John Hall (classical guitar), Pamela Highbaugh (violoncello), Joanna Hood (viola), Elizabeth Ilku (harp), Wesley Jacobs (tuba), Peter Kahn (jazz saxophone), Kenneth Kellett (jazz double bass), Ervin Monroe (flute), Lyle Nordstrom (recorder/lute), Patricia Adams Nordstrom (recorder/viola da gamba), Robert Pangborn (percussion), Joseph Skrzynski (trombone/tuba), Daniel Spencer (jazz percussion), Sharon Stanis (violin), Walter Szymanski (jazz trumpet), James Underwood (trumpet), Flavio Varani (piano), John Paul White (voice)*

The Department of Music, Theatre and Dance offers the following programs: Bachelor of Arts with major in music; Bachelor of Music with majors in music education, performance, early music, theory, composition, jazz or commercial music; Master of Music with concentrations in performance, pedagogy, conducting, music education, early music, composition or jazz. Liberal arts minors are offered in music, theatre or dance; a secondary teaching minor is offered in music. A secondary teaching minor in speech may include up to 12 credits of theatre courses; see page 162.

In conjunction with the Center for the Arts, the department offers student performance opportunities in dramatic productions, dance recitals, music ensembles and recitals, and music theatre.

## Departmental honors

Departmental honors will be awarded for a combination of academic achievement (minimum 3.30 GPA), artistry in the major area of study, and contribution to the operations of the department.



## Music Programs

### Core requirements for all degree programs in music:

Prospective music majors should read the "Undergraduate Music Handbook," which is available in the department office, and consult with a department adviser before beginning a music degree program. In addition, new students are expected to audition during the first week of classes in order to qualify for their chosen performing medium.

All music majors must meet the following requirements:

1. MUT 211-212, plus 8 credits from MUT 311, MUT 312, MUT 314, MUT 410, MUT 411, MUT 412 and MUT 414.
2. Successful completion of the departmental ear training examination.
3. MUS 320 and two of the following: MUS 328, MUS 329, MUS 330, MUS 334, MUS 345 and MUS 347.
4. Concert attendance requirement and solo performance requirement as described in the "Music Handbook."

### Requirements for the liberal arts major in music, B.A. program

Forty-eight credits in music, with corequisites in art, theatre and/or dance, are required for a Bachelor of Arts degree with a music major. This degree is for students who wish a broad general education without a high degree of specialization in music. Students pursuing this degree specialization must satisfy the College of Arts and Sciences general education requirement and the distribution requirement specified for the Bachelor of Arts degree and the specific corequisites for this specialization. Students in this degree program may not use a music course to satisfy the university general education requirement in the arts.

Specific music requirements are: ensembles — four semesters, two must use applied major (4 credits); applied music — may include conducting and up to 4 credits in keyboard techniques (16 credits); orchestration — MUT 411 (4 credits); language — 16 credits or equivalent proficiency in a modern language (German, French or Italian recommended).

### Requirements for the Bachelor of Music degree

The Bachelor of Music degree is intended for students who wish preprofessional and professional preparation in performance, early music, theory, composition, jazz or commercial music. Candidates for the Bachelor of Music degree must meet the general education requirements of the university and should meet the same distribution requirements as candidates for the Bachelor of Science in music degree: 4 credits in each of three different distribution areas. With the approval of the Department of Music, Theatre and Dance, however, these students may substitute a non-music course from the university general education arts category for a course in one of the other areas comprising the college distribution requirement.

### Specialization requirements:

	Credits
<b>1. Instrumental Music Education</b>	
Orchestration (MUT 411)	4
Applied major (normally an orchestral instrument)	14
Applied minor (MUA 251, 252, 253, 254, 256, 257, 258)	7
Ensemble (7 semesters membership required; 4 must be for credit)	4
Keyboard: MUA 371 or equivalent proficiency	0-6
Class Voice (MUA 260)	2
Conducting (MUA 395)	4
Elementary Instrumental Methods (MUS 400)	4
Secondary Instrumental Methods (MUS 404)	2
Professional education (RDG 338, FE 344, FE 345, SED 427, SED 455)	26

2. **Vocal Music Education**
- Orchestration (MUT 411) 4
  - Applied major (normally voice or piano) 14
  - Applied minor (voice for piano majors; piano for voice majors; both for those with another applied major) 8-16
  - Ensemble (7 semesters membership required; 4 must be for credit) 4
  - Instrument class (1 credit each of a wind and a string instrument class, chosen from MUA 251-259) 2
  - Conducting (MUS 395) 2
  - Teaching Music in the Elementary Schools (MUS 401) 4
  - Secondary Choral Methods (MUS 403) 3
  - Diction for Singers (ML 211-212; offered only in alternate years) 8
  - Professional education (RDG 338, FE 344, FE 345, SED 427, SED 455) 26
3. **Performance: Piano or organ**
- Ensembles (8 semesters; must include 4 semesters of accompanying) 8
  - Applied Major 32
  - Applied Minor 8
  - Pedagogy (MUS 441) 4
  - Repertoire (MUS 440 for pianists; organists should consult an adviser) 4
  - Language 0-16
  - Senior Recital
  - Recommended: Conducting (MUS 395)
4. **Performance: Voice**
- Ensembles (8 semesters; 4 must use applied major, one must be accompanying for voice majors) 8
  - Applied Major 32
  - Applied Minor (must be keyboard unless proficiency equivalent to MUA 471) 8
  - Repertoire 4
  - Language: Italian, French or German course numbered 115 or higher, plus Diction for Singers (ML 211-212, offered only in alternate years) 8-16
  - Senior Recital
  - Recommended: Conducting (MUS 395)
5. **Performance: Orchestral Instruments or Guitar**
- Ensembles: For orchestral instruments, 2 per semester for 8 semesters, 8 of which must use applied major; for guitar, 8 semesters, 4 of which must use applied major 8-16
  - Applied Major 32
  - Applied Minor (must be keyboard unless proficiency equivalent to MUA 471) 8
  - Repertoire (via independent study) 2 credits for orchestral instruments, 4 credits for guitar
  - Language (8 credits or equivalent proficiency in a modern language numbered 115 or higher, German, French or Italian recommended)
  - Senior Recital
  - Recommended: Conducting (MUS 395)
6. **Early Music**
- Ensembles (6 credits must use applied major) 12
  - Applied Major 24
  - Applied Minor 8
  - Keyboard (MUA 271 or equivalent proficiency) 4
  - Performance Practice (MUS 423) 2
  - Bibliography (MUS 490) 2
  - Language (16 credits or equivalent proficiency in a modern language numbered 215 or higher, German, French or Italian recommended)
  - Recommended: Additional credits in music history and Senior Recital

- 7. Theory**
- Advanced theory: MUT 311, 312, 410, 411, 412 20
  - Composition 4
  - Ensembles (6 semesters, 3 must use applied major) 6
  - Applied Major 12
  - Keyboard (MUA 471 or equivalent proficiency) 0-8
  - Bibliography (MUS 490) 2
  - World Music (MUS 250) 4
  - Apprentice College Teaching (MUS 497) 2
  - Conducting (MUS 395) 4
  - Language (16 credits or equivalent proficiency in a modern language numbered 215 or higher, German recommended)
  - Recommended: Additional credits in music theory
- 8. Composition**
- Composition 16
  - Advanced theory: MUT 311, 312, 410, 411, 412 20
  - Ensembles (6 semesters, 3 must use applied major) 6
  - Applied Major 8
  - Keyboard (MUA 471 or equivalent proficiency) 0-8
  - Conducting (MUS 395) 4
  - Language (16 credits or equivalent proficiency in a modern language numbered 215 or higher, German recommended, or Diction for Singers (ML 211-212), offered only in alternate years, plus 8 credits in a modern language numbered 115 or higher) 8-16
  - Senior Recital
- 9. Jazz and Commercial Music (Instrumental)**
- Jazz Theory and Arranging (MUT 314, 414) 8
  - Jazz History (MUS 347-348) 4
  - Ensembles (8 semesters; 4 must use applied major) 8
  - Keyboard Technique: proficiency equivalent to MUA 271 0-4
  - Jazz Piano (MUA 130, 230, 330, 430) 8
  - Applied Major 16
  - Commercial Music Seminar (MUS 351) 4
  - Audio Techniques (MUS 353) 2
  - Business of Music (MUS 318) 4
  - World Music (MUS 250) 4
  - Language course (French recommended) numbered 115 or higher
- 10. Jazz and Commercial Music (Vocal)**
- Jazz Theory and Arranging (MUT 314, 414) 8
  - Jazz History (MUS 347-348) 4
  - Ensembles (8 semesters; 4 must use applied major) 8
  - Musical Theatre Workshop (2 semesters) 2
  - Keyboard Technique: proficiency equivalent to MUA 271 0-4
  - Jazz Piano (MUA 130, 230, 330, 430) 8
  - Applied Major 16
  - Commercial Music Seminar (MUS 351) 4
  - Audio Techniques (MUS 353) 2
  - Business of Music (MUS 318) 4
  - Fundamentals of Acting (THA 267) 4
  - Dance courses selected from Ballet, Modern Dance, Jazz Dance or Choreography 2
  - Language course numbered 115 or higher, plus Diction for Singers (ML 211-212), offered only in alternate years
  - Recommended: Additional dance courses

## Ensemble requirements

The ensemble requirements vary from one degree program to another. The requirements are given in terms of minimum number of semesters and minimum number of credits; at least half of these ensembles must use the applied major. A student may, of course, exceed these minima; in fact, the department recommends ensemble participation every semester, if possible.

## Major standing

Prospective music majors must apply to the Department of Music, Theatre and Dance for major standing after completing 48 credits at Oakland University or elsewhere. Normally, transfer students should apply during their first semester at Oakland.

To apply for major standing:

1. Meet with the departmental adviser and prepare a program plan.
2. Complete an application for major standing and submit it with the completed program plan to the department office.
3. Perform a major standing jury in the applied specialization at the end of the semester in which the student has applied for major standing.

## Auditions

New music majors must audition in their performing medium for a faculty committee within the first week of classes. Students should be prepared to demonstrate proficiency in an applied specialty and may be asked to do some sight reading.

## Applied music juries

Music majors must play for a jury in their major performing medium at the end of each fall and each winter semester of applied study; in some cases a jury in a performance minor may also be required. Failure to complete this requirement will result in an "I" (Incomplete) grade. For specific jury requirements, students should consult the head of their division.

## Requirements for the secondary teaching minor in music

To earn the secondary teaching minor in music, students must complete 28 credits in music distributed as follows: 8 credits in music theory (MUT); 8 credits in applied music (MUA); four semesters (at least 4 credits) in music ensembles (MUE); and a planned program of 8 credits (to be approved by a music adviser) selected from MUS 149, MUS 250, MUS 320, MUS 395, MUS 400, MUS 401, MUS 402, MUS 404, MUS 441, MUS 491, MUS 494, MUS 495 and MUS 496. At least 14 of the 28 credits must be in courses numbered 300 or above.

## Requirements for the liberal arts minor in music

To earn a minor in music, students must complete 24 credits in music chosen in consultation with a department adviser as follows: 8 credits of music theory (MUT), 6 credits of music history (MUS 320, MUS 328, MUS 329, MUS 330, MUS 334, MUS 345 and MUS 347); 6 credits of applied music (MUA); and 4 credits of music ensemble (MUE).

## Course Offerings

### MUSIC ENSEMBLES

Ensembles are open to all students by audition. May be repeated for credit.

#### MUE 301 University Chorus (1)

Performance of the large choral masterpieces from all music periods.

- MUE 302 University Community Chorus (1)**  
Festival-type mixed chorus for citizens of the surrounding communities who possess vocal experience. Performance of varied choral literature. Meets in the evening.
- MUE 304 Oakland Chorale (1)**  
Performance of a wide range of choral chamber repertoire from Renaissance to the present.  
Prerequisite: Permission of instructor.
- MUE 305 Opera Chorus (1)**  
An ensemble which performs with the Michigan Opera Theatre.  
Prerequisite: Permission of instructor.
- MUE 306 Starshine (1)**  
An introduction to show choir performance of staged and choreographed shows.  
Prerequisite: Permission of instructor.
- MUE 307 University Drive (1)**  
A show choir presenting staged and choreographed shows. Emphasis on skill development in singing, style, stage presence, stage movement and microphone technique.  
Prerequisite: Permission of instructor.
- MUE 308 Meadow Brook Estate (1 or 2)**  
A show choir presenting fully staged, costumed and choreographed shows. Rigorous performance schedule in professional situations.  
Prerequisite: Permission of instructor.
- MUE 309 Meadow Brook Festival Chorus (1)**  
Performance of major choral masterpieces from all music periods under world-famous conductors at Meadow Brook Music Festival. May be repeated for a total of 8 credits.  
Prerequisite: Permission of instructor.
- MUE 310 Vocal Improvisation Workshop (2)**  
A laboratory in vocal improvisation designed to increase skills in performing commercial and popular music.  
Prerequisite: Permission of instructor.
- MUE 315 Vocal Jazz Ensemble (1)**  
Ensemble performance of complex vocal jazz works. Development of jazz style and blend, scat-singing, solo production and microphone technique.  
Prerequisite: Permission of instructor.
- MUE 320 Pontiac-Oakland Symphony (1)**  
Orchestral performance of repertoire from the eighteenth, nineteenth and twentieth centuries. Several concerts per year, on- and off-campus. Accompaniments for solo concertos and university choral groups. Membership by audition. Graded S/U.
- MUE 331 Concert Band (1)**  
An ensemble of wind instruments performing standard concert band literature.  
Prerequisite: Permission of instructor.
- MUE 340 Afram Jazz Ensemble (1)**  
A study of traditional and contemporary literature for large jazz ensembles within the Afro-American cultural context. Both conceptualization of the material and improvisational techniques will be explored and defined.
- MUE 341 Jazz Improvisation Workshop (2)**  
A performance practice laboratory designed to increase improvisational skills indigenous to jazz performance and to identify systematically and use stylistic characteristics of various jazz subcategories.
- MUE 350 Opera Workshop (1)**  
Study and experience in various forms of musical theatre.  
Prerequisite: Permission of instructor.
- MUE 351 Musical Theatre Workshop (1)**  
Performance and study of repertory of the musical theatre.  
Prerequisite: Permission of instructor.

- MUE 360 Collegium Musicum (1)**  
Performance of Medieval, Renaissance and Baroque music in various vocal and instrumental combinations. Period instruments and performance practices are emphasized. Graded S/U.  
Prerequisite: Permission of instructor.
- MUE 370 Guitar Ensemble (1)**  
Performance practice and techniques of guitar literature involving two or more players.
- MUE 371 Woodwind Ensemble (1)**  
Ensembles of three or more saxophones performing appropriate literature.  
Prerequisite: Permission of instructor.
- MUE 373 Percussion Ensemble (1)**  
Performance of music for various combinations of percussion instruments.  
Prerequisite: Permission of instructor.
- MUE 375 Keyboard Ensemble Technique (2)**  
Class instruction in performance and repertory of multiple keyboard literature.  
Prerequisite: Permission of instructor.
- MUE 380 Chamber Music (1)**  
Performing ensemble of various instrumentations. A spectrum of appropriate music literature, medieval through contemporary.
- MUE 390 Accompaniment Practicum (1)**  
Experience in piano accompaniment of solo and/or ensembles, vocal and instrumental. May be repeated once for credit.  
Prerequisite: MUA 370.

## APPLIED MUSIC

The following courses each have four course number designations. Music majors are to enroll using the number which corresponds to the year in school — freshmen, 100 level; sophomores, 200 level; juniors, 300 level; seniors, 400 level.

Music faculty may adjust course numbers at the time of the entering audition, or after the first lesson.

Beginners must use the 100-level designation regardless of year in school. Students who have previously studied, either privately or in a college or university, should consult the departmental adviser to determine an appropriate course number if an exception to the above listings exists. May be repeated for credit except where indicated.

The following courses are individual lessons and involve an applied music fee.

MUA 100, 200, 300, 400	Voice (2 or 4)
MUA 101, 201, 301, 401	Piano (2 or 4)
MUA 102, 202, 302, 402	Organ (2 or 4)
MUA 103, 203, 303, 403	Harpsichord (2 or 4)
MUA 104, 204, 304, 404	Violin (2 or 4)
MUA 105, 205, 305, 405	Viola (2 or 4)
MUA 106, 206, 306, 406	Violoncello (2 or 4)
MUA 107, 207, 307, 407	Double Bass (2 or 4)
MUA 108, 208, 308, 408	Flute (2 or 4)
MUA 109, 209, 309, 409	Oboe (2 or 4)
MUA 110, 210, 310, 410	Clarinet (2 or 4)
MUA 111, 211, 311, 411	Bassoon (2 or 4)
MUA 112, 212, 312, 412	French Horn (2 or 4)
MUA 113, 213, 313, 413	Trumpet (2 or 4)
MUA 114, 214, 314, 414	Trombone (2 or 4)
MUA 115, 215, 315, 415	Tuba (2 or 4)
MUA 116, 216, 316, 416	Timpani (2 or 4)
MUA 117, 217, 317, 417	Percussion (2 or 4)
MUA 118, 218, 318, 418	Harp (2 or 4)

MUA 119, 219, 319, 419	Guitar (classical) (2 or 4)
MUA 120, 220, 320, 420	Renaissance Winds (2 or 4)
MUA 121, 221, 321, 421	Viola da Gamba (2 or 4)
MUA 122, 222, 322, 422	Lute (2 or 4)
MUA 123, 223, 323, 423	Recorder (2 or 4)
MUA 124, 224, 324, 424	Saxophone (2 or 4)
MUA 130, 230, 330, 430	Piano (jazz) (2 or 4)
MUA 131, 231, 331, 431	Guitar (jazz) (2 or 4)
MUA 132, 232, 332, 432	Trumpet (jazz) (2 or 4)
MUA 133, 233, 333, 433	Saxophone (jazz) (2 or 4)
MUA 134, 234, 334, 434	Percussion (jazz) (2 or 4)
MUA 135, 235, 335, 435	Double Bass (jazz) (2 or 4)
MUA 149, 249, 349, 449	Applied Music (2 or 4)

May be used to increase the number of private lessons in the student's major or minor performing medium. Must be taken with one of the applied music courses.

The following music courses are group lessons and involve an applied music fee.

MUA 171, 271, 371, 471	Keyboard Technique (2 each)
Development of the basic keyboard facility essential to any musician and some acquaintance with keyboard literature. May not be repeated for credit.	
Prerequisite: Permission of instructor.	
MUA 251	Beginning Violin Class (1)
MUA 252	Beginning Violoncello Class (1)
MUA 253	Beginning Flute Class (1)
MUA 254	Beginning Clarinet Class (1)
MUA 255	Beginning Double Reed Class (1)
MUA 256	Beginning Trumpet Class (1)
MUA 257	Beginning Trombone Class (1)
MUA 258	Beginning Percussion Class (1)
MUA 259	Beginning Guitar Class (1)
MUA 251 through 259 may be repeated for a total of 2 credits.	

MUA 260 Class Voice (2)  
Elementary aspects of singing, including diction, breath control, projection and repertoire.

MUA 361-362 Vocal Literature I and II (2 each)  
A survey of literature for the voice with emphasis on historical style. MUA 361 covers the Middle Ages through the nineteenth century, with emphasis on German song. MUA 362 continues through the nineteenth and twentieth centuries, emphasizing French, British and American.  
Prerequisite: ML 212 (may be taken concurrently) and permission of instructor.

MUA 370 Accompanying (1 or 2)  
To help the pianist acquire knowledge of the basic skills required in the ensemble. Representative vocal and instrumental compositions are studied; emphasis is on rehearsal techniques and performance.

MUA 373 Piano Tuning and Technology (2 credits)  
Basic skills in tuning and regulating a piano. Ability to set equal temperament as well as some discussion of historic temperaments.  
Prerequisite: MUT 212.

MUA 376, 377, 476, 477 Jazz Keyboard Practices (2)  
Development of basic jazz keyboard techniques and skill including jazz chord and rhythm reading, melodic development and voice leading. May not be repeated for credit.  
Prerequisite: Keyboard proficiency demonstrated by audition.

## MUSIC THEORY AND COMPOSITION

MUT 111 Beginning Musicianship (4)  
Introduction to the techniques of reading and writing music, notation, pitch and rhythmic organization, elementary sight singing, dictation and keyboard familiarity. An elective for nonmusic majors.

**MUT 205 Ear Training Preparation (1)**

A required course for all full-time music majors who have not satisfied the ear training preparation. See "Music Handbook." May be repeated for a maximum of 4 credits. Graded S/U or numerically at the discretion of the department.

Prerequisite: MUT 212.

**MUT 211 Harmony and Ear Training I (4)**

Beginning ear training and rudiments of tonal harmony. The harmonic practice of late eighteenth and early nineteenth centuries; composition and analysis in this style.

**MUT 212 Harmony and Ear Training II (4)**

Harmonic practice of the late nineteenth and early twentieth centuries; composition and analysis in this style.

Prerequisite: MUT 211 or equivalent.

**MUT 311 Techniques of Musical Analysis (4)**

Techniques of analyzing works of various styles and periods, with emphasis on tonal music.

Prerequisite: MUT 212.

**MUT 312 Tonal Counterpoint (4)**

The contrapuntal style of the eighteenth century; composition and analysis.

Prerequisite: MUT 212.

**MUT 314 Jazz Theory (4)**

Jazz notation, arranging and composition.

Prerequisite: MUT 212.

**MUT 315 Composition (4)**

Private lessons in composition and composition laboratory. Studies, exercises and projects concerning creativity and craft in music composition. For freshmen and sophomores. May be repeated for credit.

Prerequisite: MUT 312 and permission of instructor.

**MUT 410 Twentieth Century Techniques (4)**

Compositional practices in the 20th century; composition and analysis.

Prerequisite: MUT 212.

**MUT 411 Orchestration (4)**

A study of the orchestral instruments and their use in various combinations, including full orchestra and band. MUS 400, 404, 395 and MUT 410 are related courses.

Prerequisite: MUT 212.

**MUT 412 Modal Counterpoint (4)**

The contrapuntal style of the sixteenth century. Analysis and composition in this style. Offered in alternate years.

Prerequisite: MUT 212.

**MUT 414 Jazz Composition and Arranging (4)**

Composition and arranging technique for jazz ensembles. Includes study of jazz notational systems, idiomatic jazz practice, standard jazz forms and orchestration for instruments and voice as used in jazz ensembles.

Prerequisite: Permission of instructor.

**MUT 415 Advanced Theory/Composition (4)**

Private lessons in composition and composition laboratory: studies, exercises and projects concerning creativity and craft in composing music. For juniors and seniors. May be repeated for credit.

Prerequisite: MUT 312 and permission of instructor.

**MUSIC HISTORY, LITERATURE AND APPRECIATION****MUS 100 An Introduction to Music (4)**

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. An elective for nonmusic majors.

*Satisfies the general education requirement in arts.*



**MUS 215 West African Drumming (2)**

Study of drum ensemble traditions and practice as related to West African oral culture. Includes performance experience with authentic Ewe and Akan drums. Comparison with other musical traditions of indigenous African cultures.

**MUS 250 World Music Survey I (4)**

Introduction to selected music cultures to acquaint the student with a variety of musical functions and styles at various places and times. Emphasis is on demonstrations via live performances by visiting lecturers and guest artists. May be taken twice for a total of 8 credits. Satisfies the university general education requirement in arts.

**MUS 320 Survey of Music History and Literature (4)**

A survey of music from medieval through modern contemporary, primarily for music majors.

Prerequisite: MUT 212 is recommended. Satisfies the general education requirement in arts.

**MUS 328 Music of the Baroque Period (2)**

Music history and literature of the Baroque period.

Prerequisite: MUS 320.

**MUS 329 Music of the Classical Period (2)**

Music history and literature of the Classical period.

Prerequisite: MUS 320.

**MUS 330 Music of the Renaissance (2)**

Music history and literature of the Renaissance period.

Prerequisite: MUS 320.

**MUS 331 Opera and Music Drama (4)**

A study of music drama from the lyric drama of the ancient Greeks to the present. Suggested as an elective for nonmusic majors.

Prerequisite: MUT 211.

**MUS 334 Music of the Romantic Period (2)**

Music history and literature of the Romantic period.

Prerequisite: MUS 320.

**MUS 345 Twentieth Century Music (2)**

A study of significant styles and composers from Debussy to the present.

Prerequisite: MUS 320.

**MUS 347-348 History of Jazz (2 each)**

A survey and historical study of the development of jazz, including significant periods and trends, stylistic analysis and aesthetic foundations.

Prerequisite: MUS 320.

**MUS 351 Commercial Music Seminar (4)**

Rehearsal and production techniques for singers and instrumentalists.

Prerequisite: Sophomore standing.

**MUS 353 Audio Techniques (2)**

A performer-oriented study of microphones, voltage regulation, amplification, mixers, speakers and acoustical phenomena associated with sound recording and reinforcement.

Prerequisite: Sophomore standing.

**MUS 355 Piano Literature (2)**

Historical development of music written for the pianoforte. Includes some study of harpsichord and clavichord music.

Prerequisite: MUS 320.

**MUS 360-361 Church Music I and II (2 each)**

Study of liturgy and hymnology. Development of skill in service playing at the organ, chant accompaniment, modulation and improvisation. Combination organ and choral repertoire for church service. Offered in alternate years.

Prerequisites for 360: MUT 312 and MUS 320.

Prerequisite for 361: MUS 360.

**MUS 423 Performance Practices (2)**

A study of the performing practices of music of earlier times. Content varies each semester. May be repeated a total of three times for credit with permission of instructor.

Prerequisite: Permission of instructor.

**MUS 440 Piano Master Class (2)**

Class study of piano literature for stylistic characteristics and technical considerations for proper performance.

Prerequisite: Permission of instructor.

**MUS 490 Introduction to Music Bibliography (2)**

An introduction to basic research materials and methods in musicology primarily for the music history and literature major.

Prerequisite: MUS 320 and a 400-level theory course.

**MUS 491 Directed Research in Music History (4)**

Directed individual reading and research for advanced music history majors.

Prerequisite: MUS 320, a 400-level theory course and 2 of the following: MUS 328, 329, 330, 334, 345.

**MUSIC EDUCATION****MUS 149 Music as an Art and as an Elementary School Subject (5)**

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.

**MUS 230 Studies in Choral Music (1, 2 or 3)**

Seminar, independent study and performance of choral music including vocal production techniques, performance practices and historical foundations. Offered summer session.

**MUS 231 Studies in Orchestral Music (1 or 2)**

Seminars, independent study and performance of orchestral music, including study of performance practices, theory, history and chamber music of various periods. Offered summer session.

**MUS 232 Studies in Piano Performance and Literature (2 or 3)**

Master class in performance of selected piano works including historical performance practices and technical considerations. Offered summer session.

**MUS 233 Studies in Musical Expression through Movement (2 or 3)**

Seminars in music theory and composition and in various forms of movement which express sound. Eurhythmics and chironomy are studied as well as standard dance forms. Offered summer session.

**MUS 318 Business of Music (4)**

A survey of business techniques and procedures, laws, licensing and accounting practices in the music industry, and a study of career opportunities related to music.

**MUS 395 Conducting (4)**

Basic techniques of conducting, including instrumental and choral. Participants elect to emphasize either instrumental or choral technique and will be assigned at least one hour per week as assistants in university performing groups or public school ensembles.

Prerequisite: MUT 212.

**MUS 400 Elementary Instrumental Methods (4)**

Provides the teacher with basic facilities and pedagogical techniques for the string, woodwind, brass and percussion families. Offered in alternate years.

**MUS 401 Teaching Music in Elementary Schools (4)**

Organization and content of the general vocal music class in kindergarten through sixth grade. The development of musicality in the child. Emphasis on teaching music reading and ear training to young children.

Prerequisite: MUT 211 and a 300-level theory course.

**MUS 402 Teaching Music in Secondary Schools (2)**

The content and organization of the complete secondary school curriculum and the role music assumes in it. Selection of appropriate repertoire and development of the school music library.

Prerequisite: MUT 211 and a 300-level theory course.

**MUS 403 Secondary Choral Methods (2)**

The organization and conducting of choral music in junior and senior high schools. Repertoire, materials and techniques.

Prerequisite: MUT 211.

**MUS 404 Secondary Instrumental Methods (2)**

The organization and conducting of instrumental music in junior and senior high schools. Repertoire, materials and techniques.

Prerequisite: MUT 211.

**MUS 441-442 Music Pedagogy (4 each)**

Principles of music instruction for the studio teacher. The first semester will be devoted to a survey of the field and to observation. The second semester will be devoted to supervised teaching.

**MUS 445 Music Criticism (4)**

A study of the techniques of evaluating musical performances and making appropriate verbal and written comments. Includes techniques of writing program notes.

**MUS 480 Advanced Studies in Choral Conducting and Literature (1, 2, 3 or 4)**

Independent and seminar work in advanced choral conducting. Emphasis is on interpretation of choral literature through research. Opportunities are provided for conducting experience in choral lab groups.

Prerequisite: Choral conducting experience and one music history class.

**MUS 481 Advanced Studies in Orchestral Conducting and Literature (1, 3 or 3)**

Independent and seminar work in advanced orchestral conducting. Emphasis is on interpretation of orchestral literature through research. Opportunities are provided for conducting experience in a laboratory orchestra. Offered summer session.

Prerequisite: Conducting experience, music theory.

**MUS 494 Directed Research in Music Education (2 or 4)**

Directed individual reading and research in technology of, innovation in, and psychology of music instruction.

Prerequisite: Two courses from MUS 401, 402, 403 and 404.

**MUS 496 Innovations in Music Instruction (2, 3 or 4)**

Innovative patterns of music instruction. Materials, methods and curricula appropriate to changing demands made on the public school music teachers. Offered summer session.

Prerequisite: Permission of instructor.

**MUS 499 Special Topics in Music (1, 2, 3 or 4)**

Current topics and issues in music performance and literature.

Prerequisite: Permission of instructor.

**INDEPENDENT STUDY****MUS 295 Independent Study (1, 2 or 4)**

Normally for freshmen and sophomores.

Prerequisite: Permission of department.

**MUS 296 Problems in Applied Music (2)**

Independent study in technique and literature of the student's major performing area. Graded S/U.

Prerequisite: Permission of department chairperson.

**MUS 495 Independent Study (1, 2 or 4)**

Normally for juniors and seniors.

Prerequisite: Permission of department.

**MUS 497 Apprentice College Teaching (2)**

Supervised participation in teaching an undergraduate course in music, together with discussion of teaching methods and objectives.

Prerequisite: Permission of department.

## Theatre and Dance Programs

The Department of Music, Theatre and Dance offers liberal arts minors in theatre and dance.

To earn a minor in theatre, students must complete 20 credits distributed as follows: 12 credits from THA 261, THA 267 and THA 363; 4 credits from THA 268 or THA 269; and 4 credits from THA 450 and THA 462.

To earn a minor in dance, students must complete 20 credits distributed as follows: 12 credits from DAN 173, DAN 376 and DAN 372 or DAN 373; and 8 credits from all other dance courses.

## Course Offerings

### THEATRE

#### THA 100 Introduction to Theatre (4)

Theatre as an art form. Topics include acting, directing, design, dramatic literature, theatre history, theory and criticism. Students will view selected plays. *Satisfies university general education requirement in arts.*

#### THA 200 Topics in Theatre Arts (4)

Topics and problems, selected by the instructor, as temporary or experimental additions to the curriculum.

#### THA 213 Mime (4)

Introduction to the art of gesture and movement. Classical and traditional forms are explored, emphasizing active involvement in mime.

#### THA 230 Voice and Articulation (4)

Theory and application in voice, articulation and pronunciation.

#### THA 261 Technical Laboratory (4)

Survey of techniques of scenery and costume construction and lighting, including proper use of tools and hardware in these three areas. Sixty hours of work on a major production are required.

#### THA 267 Fundamentals of Acting (4)

An introduction to the basic skills and knowledge required to perform a role in a stage production.

#### THA 268 Theatre History I (4)

History of the Western theatre from its primitive origins through the Renaissance, including dramatists, stages, productions and acting. A few representative plays will be read. *Satisfies the university general education requirement in arts.*

#### THA 269 Theatre History II (4)

Continuation of THA 268 to the present. Includes a brief look at the theatre of the Orient. A few representative plays will be read. *Satisfies the university general education requirement in arts.*

#### THA 346 Non-Western Theatre and Dramatic Literature (4)

Identical with LIT 346.

#### THA 350 Oral Interpretation (4)

Oral expression of literature — prose, poetry and drama — based on intellectual, emotional, and aesthetic analysis.

#### THA 362 Technical Design Laboratory (4)

Basic drafting and rendering for stage and costume will be covered as well as development of lighting plots. Twenty hours of work on a major production are required.

Prerequisite: THA 261 or permission of instructor.

#### THA 363 Practicum in Rehearsal and Performance (2 or 4)

Participation in a student production supervised by a faculty member. Students will maintain a running log, keeping track of their time and continuously evaluating their experiences. Credit is available for on-stage and backstage work. May be repeated for a total of 12 credits.

- THA 365 Introduction to Makeup (4)**  
Theory and practice in theatre makeup.
- THA 366 Introduction to Costuming (4)**  
Theory and practice in theatre costuming.
- THA 368 Characterization (4)**  
Continuation of work on voice, body and concentration. Scene study focusing on the requirements of realistic acting.  
Prerequisite: THA 230, THA 267.
- THA 420 Improvisation and Theatre Games (4)**  
Group interaction such as improvisation, simulation, role-playing, sociodrama, creative dramatics, story and readers theatre, and educational games. Includes application of these techniques for group leadership, teaching and theatre performance.  
Prerequisite: THA 267.
- THA 430 Advanced Voice and Articulation (4)**  
Advanced work on voice and articulation with emphasis on vocal requirements of the stage, film and broadcasting performer. Some work on dialects and accents.  
Prerequisite: THA 230 or permission of instructor.
- THA 450 Directing Mini-Theatre Forms (4)**  
Direction and performance in theatre styles requiring minimal sets and appropriate for dinner theatre, touring shows, special occasions, etc. Includes forms such as: story theatre, chamber theatre, readers theatre, documentary theatre and media theatre.  
Prerequisite: THA 267, 350 or equivalent.
- THA 460 Theatre Management for School and Community (4)**  
Theory and practice in theatre organization and management. Includes publicity and promotion, box office procedures, production budgeting and auditing, house management, play selection and production organization.  
Prerequisite: Junior standing and two THA courses.
- THA 462 Directing (4)**  
Theory and practice in play directing. Includes intensive work on interpretation of the playscript, casting, staging, rehearsal techniques, supervision of technical staff and directing experience.  
Prerequisite: THA 261, 267 and 363.
- THA 464 Costume Design (4)**  
Introduction to costume history, drafting, cutting and construction, as well as the technique of rendering.  
Prerequisite: THA 261, 363 and 366.
- THA 466 Advanced Stage Design (4)**  
The concepts of stage design, rendering and drafting.  
Prerequisite: THA 261, 362 and 363.
- THA 467 Advanced Acting (4)**  
Continuation of work on body, voice and concentration. Focuses on the requirements of various acting and period styles.  
Prerequisite: THA 267 and THA 368 or equivalent.
- THA 480 Special Topics Seminar (4)**  
Group study of topics of special interest chosen by department faculty and students.  
Prerequisite: Three theatre courses.
- THA 490 Independent Study (2, 4 or 8)**  
Special research projects in theatre.  
Prerequisite: Three theatre courses and permission of instructor.
- THA 491 Internship (2, 4, 8 or 12)**  
Experience working with professionals in a variety of performing arts settings.  
Prerequisite: Three theatre courses and permission of supervising faculty.

**THA 497      Apprentice College Teaching (2 or 4)**

Assisting in teaching an undergraduate course in theatre, and discussions with the supervising faculty member on the principles, methods and problems of such teaching.

Prerequisite: Junior standing and permission of instructor.

**DANCE****Technique****DAN 100, 200, 300, 400      Ballet (1)**

Technique of classical ballet. Each course may be repeated for up to 4 credits.

**DAN 110, 210, 310, 410      Modern Dance (1)**

Technique of modern dance. Each course may be repeated for up to 4 credits.

**DAN 120, 220, 320, 420      Jazz Dance (1)**

Technique of jazz dance. Each course may be repeated for up to 4 credits.

**DAN 173      Dance History and Appreciation (4)**

A historical survey of the development of theatre dance in Western culture. Course materials presented through lecture, discussion, films, slides and viewing of live dance performances. *Satisfies the university general education requirement in arts.*

**DAN 221, 222      Tap Dance I and II (1 each)**

Previous dance experience not required.

**DAN 299      Dance Workshop (1 to 4)**

A workshop designed to give students opportunities for participation in a variety of dance experiences led by performing artists. Normally offered in the spring and summer. Graded S/U.

**DAN 330      Kinesiology for the Dancer (4)**

Analysis of movement from an anatomical and mechanical point of view with emphasis on problems of dance technique. Also includes prevention and treatment of dance-related injuries.

Prerequisite: Three dance courses.

**DAN 350      Creative Dance for Children (4)**

Methods and styles of teaching dance to children within schools, community centers and private studios.

Prerequisite: None.

**DAN 351      Children's Dance Theatre: Rehearsal and Performance (4)**

Choreography, rehearsal and performance of a dance program for children that tours local elementary schools.

Prerequisite: Permission of instructor.

**DAN 372      Choreography I (4)**

Theory of dance composition through reading, discussion, observation and experimentation.

Prerequisite: One full year of dance.

**DAN 373      Dance for the Musical Theatre (4)**

A practical and theoretical survey of dance within musical theatre from 1900 to the present. Class material presented through actual participation with some discussion of the period and style of dance.

Prerequisite: One dance course.

**DAN 376      Practicum: Dance Rehearsal and Performance (1 or 2)**

A technique- and performance-based laboratory course. Each student will participate in a dance performance during the semester, either as a performer or choreographer. Two credits are given for performance and choreography and 1 credit for performance only. May be repeated for a maximum of 8 credits.

Prerequisite: Permission of instructor.

**DAN 402      Advanced Ballet: Partnering (1)****DAN 403      Advanced Ballet: Pointe and Variation (1)****DAN 423      Historical Dance (2)**

The study of Baroque, Renaissance and nineteenth century social dance styles. Course includes practical, theoretical and historical background.

**DAN 470 Elementary Labanotation (4)**

An introduction to Laban's system of movement notation.

Prerequisite: 12 credits in dance, including DAN 173.

**DAN 472 Choreography II (4)**

Continuation of DAN 372 at a more advanced level.

Prerequisite: DAN 372.

**DAN 480 Senior Recital (1 or 2)**

A dance program choreographed and performed by a student in the final year of dance study.

Prerequisites: Senior standing, 24 credits in dance including DAN 173, 372, 376 and permission of instructor.

**DAN 490 Independent Study (1, 2 or 4)**

Permission of instructor. Graded S/U.

**DAN 497 Apprentice College Teaching (2 or 4)**

Supervised participation in teaching an undergraduate course in dance, together with discussion of teaching methods and objectives.

Prerequisite: Permission of instructor.

# DEPARTMENT OF PHILOSOPHY

**Chairperson:** *Richard J. Burke*

**Professor:** *Richard J. Burke*

**Associate professors:** *David C. Bricker, Richard W. Brooks, J. Christopher Maloney*

**Assistant professor:** *John F. Halpin*

**Adjunct professor and lecturer:** *Charles E. Morton*

**Visiting assistant professor:** *Michael J. Morden*

**Chief adviser:** *Richard J. Burke*

Philosophy is one of the oldest yet often 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; rather, 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 Bachelor of Arts degree with a major in philosophy; modified major in philosophy with an international studies minor (South Asian studies program) or a concentration in linguistics or religious studies; and a minor in philosophy.

## Requirements for the liberal arts major in philosophy

To earn the Bachelor of Arts degree with a major in philosophy, a student must complete 40 credits in philosophy, including:

1. One semester of logic (PHL 102, 202 or 370)
2. One semester of ethics (PHL 103, 316 or 318)
3. Two semesters in history of Western philosophy (PHL 204 and 206)
4. One semester of recent American philosophy (PHL 308, 329, 437, or 475)
5. At least 20 credits in PHL courses numbered 300 or above

A student may substitute other courses for any of the above with the permission of the department chairperson. Students planning to apply for graduate work in philosophy should meet with a faculty member to discuss which courses to take in addition to the above.

## Departmental honors

Departmental honors in philosophy require at least a 3.50 G.P.A. in philosophy courses. Students who think they might qualify for departmental honors should submit an example of their philosophical writing to the department chairperson early in the semester in which they expect to graduate. This should normally be a substantial paper written in PHL 395, but two



or three papers written in other courses will be acceptable. If this work is judged to be of sufficiently high quality, it will be read by the rest of the department, and a conference with the student will be arranged. Departmental honors are thus based upon written and oral achievement in philosophy, as well as general performance in philosophy courses.

### Requirements for a modified major in philosophy with an international studies minor (South Asian studies program), linguistics or religious studies concentration

Students with modified majors in philosophy must meet the same requirements as a liberal arts minor in philosophy (see below), except 24 credits in philosophy are required (instead of 20) and 12 credits in courses numbered 300 or above (instead of 8). In addition, they must meet one of the following sets of requirements:

1. Major in philosophy with a minor in international studies (South Asian studies program): 24 credits in philosophy, including PHL 352. For requirements in international studies, see page 85.
2. Major in philosophy with a concentration in linguistics: 24 credits in philosophy, including PHL 475. For requirements in linguistics, see page 94.
3. Major in philosophy with a concentration in religious studies: 24 credits in philosophy, including PHL 325. For requirements in religious studies, see page 188.

### Requirements for the liberal arts minor in philosophy

To earn a minor in philosophy, students must complete 20 credits in philosophy, including:

1. One semester of logic (PHL 102, 202 or 370)
2. One semester of ethics (PHL 103, 316 or 318)
3. One semester of metaphysics/epistemology (PHL 204, 205, 206, 308, 329, 333, 340, 401, 437 or 475)
4. At least 8 credits in courses numbered 300 or above

### Departmental course prerequisites

In general, 100-level courses presuppose no prior college experience, 200-level courses presuppose some, 300-level courses require at least one prior philosophy course or junior standing, and 400-level courses are primarily for students majoring in philosophy. However, strict prerequisites have been kept to a minimum to encourage non-majors to take philosophy courses as electives.

### Course Offerings

#### PHL 100 Topics in Philosophy (4)

A study of one philosophical topic or problem, to be announced in the schedule of classes each semester.

#### PHL 101 Introduction to Philosophy (4)

Study of the main types and problems of Western philosophy. Readings are chosen to illustrate the development of Western thought from the ancient Greeks to the present. Offered every semester. *Satisfies the university general education requirement in Western civilization.*

#### PHL 102 Introduction to Logic (4)

The relationship between conclusions and statements given in support of them. In addition to elementary deductive and inductive logic, topics may include analysis of ordinary arguments, argument by analogy and informal fallacies. Offered every semester. *Satisfies the university general education requirement in mathematics, logic and computer science.*

#### PHL 103 Introduction to Ethics (4)

Major ethical analyses of right and wrong, good and evil, from the ancient Greeks to the present. Appeals to custom, theology, happiness, reason and human nature will be examined as offering viable criteria for judgments on contemporary issues of moral concern. Offered every semester. *Satisfies the university general education requirement in Western civilization.*

**PHL 202 Introduction to Symbolic Logic (4)**

Formal or symbolic logic is a study of what makes deductive arguments valid, employing symbols to represent sentences, words, phrases, etc. in order to reveal the formal structure of the arguments. Offered every year. Satisfies the university general education requirement in mathematics, logic and computer science.

**PHL 204, 205, 206 History of Western Philosophy (4 each)**

The development of systematic philosophical thought in the Western world from its beginning in the Mediterranean region to 1800 A.D. The three courses are PHL 204, Classical Greek Philosophy, PHL 205, Hellenistic and Medieval Philosophy, and PHL 206, Early Modern Philosophy. Each course may be taken separately, although together they present a continuous development. Satisfies the university general education requirement in Western civilization.

**PHL 300 Topics in Philosophy (4)**

One philosophical topic or problem at an intermediate level of difficulty. Topic to be announced in the schedule of classes for each semester.

Prerequisite: One philosophy course.

**PHL 301 Human Nature (4)**

Identical with HRD 301.

**PHL 302 Ethics and Personal Crises (4)**

Identical with HRD 302.

**PHL 307 European Philosophy since Kant (4)**

Among the major philosophers included are Hegel, Marx, Nietzsche and Sartre. Several types of Marxism and existentialism will be distinguished, and their influence in this country will be discussed. Offered every two years.

Prerequisite: One philosophy course.

**PHL 308 Twentieth Century British and American Philosophy (4)**

The issues that have dominated Anglo-American philosophy in the twentieth century. The course will trace the history that has led Americans and Britons to look at philosophy in a new way, appropriate to our scientific world-view.

Prerequisite: One philosophy course; PHL 206 recommended.

**PHL 310 Philosophy of Rhetoric (4)**

The problem of "objectivity," the distinction between persuasion and proof, and the consequences of denying such a distinction. Readings include Plato's *Gorgias*, Aristotle's *Rhetoric*, and modern discussions of rhetoric and society. Offered every other year. Identical with SCN 310.

Prerequisite: Junior standing.

**PHL 312 Aesthetics (4)**

The nature of aesthetic experience and aesthetic judgment in the appreciation of nature and art. Major theories of the creation and structure of works of art, and the logic and semantics of aesthetic judgment. Offered every other year.

Prerequisite: One philosophy course, or a course in art, music or literature.

**PHL 316 Ethics in Business (4)**

Review of basic ethical theory, and application to typical moral problems in business practices and institutions. Offered every year.

Prerequisite: Junior standing.

**PHL 318 Ethics and the Health Sciences (4)**

Central ethical issues in modern health care and research. Included are the distribution and allocation of health resources, the right to life and death, "informed consent," and eugenics. Offered every year.

Prerequisite: Junior standing.

**PHL 319 Philosophy of Law (4)**

The nature of law and legal obligation, with emphasis on the relation of law, coercion and morality. Attention is also given to such issues as the nature of legal reasoning, the justifiability of civil disobedience and the justification of punishment. Offered every other year.

Prerequisite: Junior standing; PHL 103 or PS 241 recommended.

**PHL 321 Political Philosophy (4)**

The meanings of central concepts in political philosophy, such as justice, freedom and authority are examined through readings in classical political philosophers and crucial problems. Offered every other year.

Prerequisite: One philosophy course or junior standing.

**PHL 325 Philosophy of Religion (4)**

Examination of arguments for and against the existence of God, the nature of religious language, relations between religion and philosophy. Offered every other year. Identical with REL 325.

Prerequisite: One philosophy course or junior standing.

**PHL 329 Philosophy of Science (4)**

Philosophical problems arising from critical reflection on the sciences. Typical topics: the structure of scientific explanation, the nature of scientific laws and theories, causality and confirmation. Offered every other year.

Prerequisite: One course in philosophy or one in natural science.

**PHL 333 Theories of Knowledge (4)**

Critical examination of knowledge claims and of the types of justification given in their support. Typical topics: skepticism; empiricism; rationalism; believing and knowing; intuition; limits of knowledge. Offered every other year.

Prerequisite: One philosophy course; PHL 206 recommended.

**PHL 340 Metaphysics (4)**

Study of selected influential attempts to characterize the basic features of the world. Emphasis on reformulations of metaphysical problems in the light of modern advances in scientific knowledge. Offered every other year.

Prerequisite: One philosophy course; PHL 204 recommended.

**PHL 350 Philosophies and Religions of Asia (4)**

The major religions of India, China and Japan with emphasis on their philosophical significance. The course will cover Hinduism, Jainism, Confucianism, Taoism and Buddhism, both the ancient traditions and some modern developments. Offered every year. Identical with REL 350.

Prerequisite: One philosophy course or junior standing.

**PHL 352 Indian Philosophy (4)**

The presuppositions and doctrines of India's major philosophic systems. Realistic, idealistic, pluralistic, dualistic and monistic systems will be considered, with some reference to contemporary developments. Offered every other year.

Prerequisite: PHL 350 or IS 240.

**PHL 370 Advanced Symbolic Logic (4)**

Standard first-order symbolic logic, emphasizing quantification theory and including identity theory and logical semantics. The logical system is approached both as a formal system and as a theoretical analysis of human reasoning. Offered every other year.

Prerequisite: PHL 102 or 202, or CSE 130, or MTH 112 or equivalent.

**PHL 390 Directed Readings in Philosophy (2)**

Tutorial on a topic not included in regular courses, primarily (but not exclusively) for majors. Students should consult with the department chairperson before approaching a faculty member with a topic. Graded S/U.

Prerequisite: One philosophy course at Oakland and permission of instructor; junior standing.

**PHL 395 Independent Study in Philosophy (4)**

Tutorial on a topic not included in regular courses, primarily (but not exclusively) for majors. Students should consult with the department chairperson before approaching a faculty member with a topic. In addition to reading and consultation, the student will write a substantial term paper.

Prerequisite: One philosophy course at Oakland and permission of instructor; junior standing.

**PHL 401 Study of a Major Philosopher (4)**

A study of the works of one major philosopher. The specific philosopher will vary, but courses on Plato, Aristotle and Kant will be offered every few years. May be repeated for credit.

Prerequisite: One philosophy course; PHL 204, 205, 206, 307 or 308 recommended, whichever is relevant.

**PHL 437      Philosophy of Mind (4)**

Selected topics or works in the philosophical literature about mind. Some topics are: the nature of psychological explanation, the relation of mind and body, thinking, emotions, concepts, consciousness and remembering. Offered every other year.

Prerequisite: One philosophy or one psychology course; junior standing.

**PHL 465      Seminar on a Philosophical Topic (4)**

One philosophical topic or problem at an advanced level of difficulty, normally requiring considerable background in philosophy. Topic and prerequisites to be announced in the schedule of classes for each semester.

**PHL 475      Philosophy of Language (4)**

Philosophical theories of natural language structure. Emphasis on views about what meaning is and how we are to explain our ability to communicate with one another. Offered every other year. Identical with LIN 475.

Prerequisite: PHL 102 or 202, or LIN 207; junior standing.

**PHL 497      Apprentice College Teaching (4)**

Open to a well-qualified philosophy student who is invited by a faculty member to assist in a regular college course, usually as preparation for a career as a professor of philosophy.

# DEPARTMENT OF PHYSICS

**Chairperson:** Norman Tepley

**Professors:** Fredrick W. Hetzel, Abraham R. Liboff, John M. McKinley, Ralph C. Mobley, Norman Tepley, Robert M. Williamson

**Associate professors:** Beverly Berger, Michael Chopp, Paul Doherty, Hai-Woong Lee, W. D. Wallace

**Adjunct professors:** Adrian Kantrowitz, Paul D. Stein

**Clinical professors of medical physics:** Howard J. Dworkin, Harold Portnoy, Gerald C. Timmis

**Clinical associate professors of medical physics:** Taljit S. Sandhu, Donovan M. Bakalyar

**Clinical assistant professors of medical physics:** Morris I. Bank, Michael B. Smith

**Clinical instructors of medical physics:** James R. Ewing, Ray A. Carlson

Courses within the Department of Physics are grouped into two categories — preprofessional career programs and experiences in science for students with broad interests in contemporary human culture. The latter are strongly recommended for students planning any of a wide range of careers, including law, business, criminology, art history, music, government, education and journalism.

Programs of study lead to the Bachelor of Science degree with majors in physics, medical physics and engineering physics, Bachelor of Arts degree with a major in physics and Master of Science degree.

The Bachelor of Science in physics is intended for students who plan to become professional scientists. It qualifies students for graduate studies in physical sciences or research positions in government and industry. Students pursuing this degree should consult with faculty members on different available specialties.

The Bachelor of Arts in physics is primarily designed for students who desire a broader, less professionally specialized background in physics. The minor in physics is available for students who want to supplement their work in other fields with an introduction to physics. A secondary teaching minor in physics is available.

The Bachelor of Science in medical physics, offered jointly with the School of Health Sciences, is based on a group of physics courses plus relevant biology, chemistry and mathematics courses. In their senior year, these students take *Physics of Diagnostic Radiology* and *Physics of Nuclear Medicine*. In addition, these students are placed in hospitals as medical physics interns, where they assist the resident medical physicist in providing clinical medical physics support and thereby gain direct experience in the clinical environment. (Interested students should consult with the medical physics adviser for specific information and counseling.)

The Bachelor of Science in engineering physics, which is offered jointly with the School of Engineering and Computer Science, is intended for well-qualified students who seek a broad education in physics and mathematics along with basic preparation in engineering.

Advisers in the various physics fields are professors Beverly Berger (astronomy), Michael Chopp (medical physics), Paul Doherty (geophysics), Abraham R. Liboff (biophysics), John M. McKinley (engineering physics), Ralph C. Mobley (industrial physics, electronics), and Robert Williamson (teaching minor). Independent research projects are available in each area.

A limited number of upper-level internships are available in medical physics. Students wishing to take a hospital internship (medical physics) or an internship in Washington or Lansing (physics and public policy) are urged to declare their intentions as early as possible.

### Requirements for the liberal arts major in physics, B.A. program

To earn the Bachelor of Arts degree with a major in physics, students must complete:

1. 32 credits in physics, with at least 22 credits in courses numbered above 200
2. 20 additional credits in chemistry, mathematics and physics

Students interested in a secondary teaching major in physics should consult the chair or the chief academic adviser of the department.

### Requirements for the major in physics, B.S. program

To earn the Bachelor of Science degree with a major in physics, students must complete:

1. 20 required credits in physics (PHY 151, 152, 158 or 317, 351, 371).
2. 22 elective credits in physics at or above the 200 level, including at least 2 credits of laboratory course work. PHY 361 and PHY 381 are strongly recommended for students planning graduate work in physics.
3. MTH 154, MTH 155, MTH 254 and either MTH 256 or APM 257.
4. 10 credits of chemistry at a level not below CHM 144.

### Requirements for the major in medical physics, B.S. program

To earn the Bachelor of Science degree with a major in medical physics\*, students must complete:

1. PHY 151, 152, 158 or 317, 318, 341, 347, 351, 371, 372, 381, 441, 442, 443 and 444.
2. MTH 154, 155, 254, STA 226 and APM 257.
3. CHM 144, 145, 149 plus 4 additional credits at a level not below CHM 144 (CHM 201 may be taken for credit).
4. BIO 200, 205 and 207.

\*For more information about this program, see the School of Health Sciences section of this catalog.

### Requirements for the major in engineering physics, B.S. program

Coordinator: John M. McKinley

To earn the Bachelor of Science degree with a major in engineering physics\*, students must complete:

1. MTH 154, 155, 254; and APM 257.
2. CHM 144 and 145 (or CHM 164 and 165).
3. PHY 151, 152, 158, 317, 351, 361 and 371, plus one of the following: PHY 331, 366, 381 or 472.
4. CSE 132 and 171; EE 222 and 326; ME 241; and SYS 317 and 325.
5. A professional option\* typically consisting of two courses plus a related engineering design elective course.
6. At least 7 to 8 credits from the following list: MTH 256; APM 263; PHY 318, 331, 366, 372, 381, 418, 472, 482; EE 345, 351, 384; ME 331, 361; or any 400-level EGR, EE, ME or SYS courses.
7. Free electives (7 to 8 credits), which may be used to satisfy writing proficiency. For limitations on free electives, see page 228.

\*Students in this program are not required to complete the college distribution requirement of the College of Arts and Sciences, detailed on page 44. For further information about this program, including professional options, see the section of this catalog for the School of Engineering and Computer Science.

In addition to the previously stated requirements, satisfactory completion of the program requires an average grade of at least 2.0 in the mathematics, science, engineering and computer science courses taken to meet program requirements.

## Departmental honors

Departmental honors may be awarded to students on the basis of high academic achievement and either independent research or meritorious service to the Department of Physics.

## Requirements for the liberal arts minor in physics

To earn a minor in physics, students must complete 20 credits in physics, including PHY 101-102 or 151-152, 158 and at least 8 credits in physics courses numbered 300 or above.

## Requirements for the secondary teaching minor in physics

To earn a secondary teaching minor in physics, students must complete PHY 101-102 or 151-152, 158 and 10 credits in physics approved by the teaching minor adviser by the end of their sophomore year.

## Placement in Physics 151

Students planning to take PHY 151 must take a placement test *before* registering for this course. Students who do not pass this test must complete PHY 101 with a passing grade of 2.0 before registering for PHY 151.

## Course Offerings

### PHY 100      Physics Problem Lab (0)

Techniques for solving problems in PHY 101, 102, 141, 151, 152. Offered fall and winter.

Corequisite: Concurrent enrollment in any of PHY 101, 102, 141, 151, 152.

### PHY 101      General Physics I (4)

Mechanics, fluids, thermodynamics. Calculus is not required. Offered fall and winter.

Prerequisite: High school algebra and trigonometry or equivalent. Concurrent enrollment in PHY 100 is required. Satisfies university general education requirement in natural science and technology.

### PHY 102      General Physics II (4)

Sound, light, electricity and magnetism, atomic and nuclear physics. Offered fall and winter.

Prerequisite: PHY 101. Concurrent enrollment in PHY 100 is required.

Each of the following courses is designed for nonscience majors.

### PHY 104      Astronomy: The Solar System (4)

The sun, planets, space travel, the search for extraterrestrial life. Offered fall only. Satisfies university general education requirement in natural science and technology.

### PHY 105      Astronomy: Stars and Galaxies (4)

Nature and evolution of stars, the Milky Way and other galaxies, cosmology. Offered winter only. Satisfies university general education requirement in natural science and technology.

### PHY 106      Earth Sciences I (4)

The earth as a planet. Topics include: origin, history, orbit, gravity, rocks and minerals, earthquakes, the interior and the theory of continental drift. Offered fall only. Satisfies university general education requirement in natural science and technology.

### PHY 107      Earth Sciences II (4)

The surfaces of the earth, including the atmosphere and oceans. Topics include: climate, meteorology, continental evolution, weathering, glaciers, wind and the energy resources of the earth. Offered winter only. Satisfies university general education requirement in natural science and technology.

### PHY 115      Energy (4)

Basic physical principles of energy, sources, transmission and distribution. Political, economic and ecological considerations.

Prerequisite: High school algebra.

**PHY 125      The Physics of Music (4)**

Lectures and experiments on the nature of vibrations, waves and sound as applied to musical instruments and scales, voice, hearing, room acoustics and electronic music. Offered fall only. Satisfies university general education requirement in natural science and technology.

Prerequisite: High school algebra.

**PHY 127      Human Aspects of Physical Science (4)**

Primarily for the student wishing to explore the interaction of the physical and social sciences. Format varies to reflect the impact of physics on contemporary life, particularly on politics, economics and behavior, as well as environment and well-being. Offered winter only. Satisfies university general education requirement in natural science and technology.

Prerequisite: High school algebra.

**PHY 141      The Physics of Health Care (4)**

Introduction to the physical principles of health-care delivery. Scientific systems and method. Data-collecting measurements, problem-solving, applications, physical hazards, radiation dosimetry and electrical safety. Offered fall and winter.

Prerequisite: High school algebra. Concurrent enrollment in PHY 100 is recommended.

**The following courses are designed primarily for the physics major and for majors in the other sciences and engineering.**

**PHY 150      Perspective and Method in Contemporary Physics (4)**

A survey of contemporary physics; e.g., black holes, quarks, nuclear energy and fusion. Methods in physics and techniques of problem solving. Offered fall only.

Prerequisite: High school algebra.

**PHY 151      Introductory Physics I (4)**

Classical mechanics and thermodynamics. For science, mathematics and engineering students. Offered fall and winter. May be used in place of PHY 101 to satisfy the general education requirement in natural science and technology.

Prerequisite: Departmental approval, physics placement test and MTH 154. Concurrent enrollment in PHY 100 is required.

**PHY 152      Introductory Physics II (4)**

Sound, light, electricity and magnetism. Offered fall and winter.

Prerequisite: PHY 151. Corequisite: MTH 155. Concurrent enrollment in PHY 100 is required.

**PHY 158      General Physics Laboratory (2)**

Elementary experiments in mechanics, heat, sound, electricity and optics for students with little high school physics laboratory experience. Offered fall and winter.

Prerequisite: PHY 101 or 151. Corequisite: PHY 102 or 152.

**PHY 241      Introductory Electronics for Scientists I (2)**

D.C. circuits, voltage and current generation and measurement.

Prerequisite: High school algebra.

**PHY 242      Introductory Electronics for Scientists II (2)**

Digital circuits. (PHY 241 is not a prerequisite.)

Prerequisite: High school algebra.

**PHY 243      Introductory Electronics for Scientists III (2)**

A.C. circuits.

Prerequisite: PHY 241 or equivalent.

**PHY 290      Introduction to Research (2 or 4)**

Independent study and/or research in physics for students with no research experience.

Prerequisite: Written agreement of a physics faculty supervisor.

**PHY 304      Astrophysics I (4)**

Application of elementary physics to the study of planets, stars, galaxies and cosmology. Offered every other year in fall only.

Prerequisite: PHY 152 or PHY 102, and MTH 155.



**PHY 305      Astrophysics II (4)**

Continuation of PHY 304. Offered every other year in winter only.

Prerequisite: PHY 304.

**PHY 306      Observational Astronomy (2)**

A lecture/laboratory course using the Oakland University Observatory and providing basic training in astronomical techniques.

Prerequisite: PHY 158; or PHY 104 or 105 and permission of instructor.

**PHY 307      Geophysics (4)**

The application of physics concepts to the study of the earth, gravity and its anomalies, geomagnetism, earth-sun energy, geochronology and seismic wave propagation. Offered every other year in fall only.

Prerequisite: PHY 152 or PHY 102, and MTH 155. PHY 106 highly recommended.

**PHY 308      Physical Oceanography (4)**

Physical oceanography and meteorology; composition and structure of the atmosphere and oceans. Interactions of sea water with the atmosphere, the continents and man. Offered every year in winter only.

Prerequisite: PHY 152 or PHY 102, and MTH 155. PHY 107 highly recommended.

**PHY 317      Modern Physics Laboratory (2)**

Optics and atomic physics experiments. Offered fall only.

Prerequisite: PHY 158. Corequisite: PHY 371.

**PHY 318      Nuclear Physics Laboratory (2)**

Nuclear physics experiments. Offered winter only.

Prerequisite: PHY 158. Corequisite: PHY 372.

**PHY 325      Biophysical Science I (4)**

Lecture course emphasizing the physics of living systems: thermodynamics in biology, information theory, theories of aging, biomolecular structure, nerve conduction, radiation biology. Offered fall only.

Prerequisite: PHY 152 or PHY 102, and MTH 155.

**PHY 326      Biophysical Science II (4)**

Lecture course presenting application of the physical laws to operation of modern biophysical instruments; the electron microprobe, ultracentrifuge, spectrometer, laser light scattering, optical and x-ray diffraction and acoustic probe. Offered winter only.

Prerequisite: PHY 152 or PHY 102, and MTH 155.

**PHY 331      Optics (4)**

Geometrical optics, optical instruments, wave theory of reflection, refraction, interference, diffraction and polarization of light. Offered winter only.

Prerequisite: PHY 152 or PHY 102, and MTH 155. Corequisite: MTH 254.

**PHY 341      Electronics (4)**

Electronics for scientists, circuit theory, transistors, power supplies, linear amplifiers, oscillators. Offered winter only.

Prerequisite: PHY 158 and MTH 155, and either PHY 152 or PHY 102. Concurrent enrollment in PHY 347 is recommended.

**PHY 347      Electronics Laboratory (2)**

Circuits and electronics experiments. Offered winter only.

Corequisite: PHY 341.

**PHY 351      Intermediate Theoretical Physics (4)**

Topics and techniques common to intermediate physics courses. Includes analytical and numerical (computer) solution techniques, DIV, GRAD, CURL and Fourier analysis. Offered fall only.

Prerequisite: PHY 152 or PHY 102, and MTH 155.

**PHY 361      Mechanics I (4)**

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

Prerequisite: PHY 152 or PHY 102, and MTH 254.

**PHY 366      Vibrations and Waves (4)**

Oscillations; mechanical waves in one, two and three dimensions; sound.

Prerequisites: PHY 152, MTH 155.

**PHY 371      Modern Physics (4)**

Introduction to relativity, kinetic theory, quantization and atomic physics. Additional topics chosen from physics of molecules, solids, nuclei and elementary particles. Offered fall only.

Prerequisite: PHY 152 or PHY 102, and MTH 155. Concurrent enrollment in PHY 317 is recommended.

**PHY 372      Nuclear Physics (4)**

Radioactivity, interaction of radiations with matter, accelerators, nuclear reactions, fission and fusion. Offered winter only.

Prerequisite: PHY 102 or 152, and MTH 155; concurrent enrollment in PHY 318 is recommended.

**PHY 373      Physics in Medicine (4)**

Especially for premedical students, wishing to explore the physical basis of medicine, including signal analysis feedback and control, biomechanics, body fluid dynamics, bioelectricity, nuclear physics and nuclear medicine, x-rays, electrical properties of nerves and membrane transport.

Prerequisite: PHY 152 or PHY 102, and MTH 155.

**PHY 381      Electricity and Magnetism I (4)**

Maxwell's equations and the experimental laws of electricity and magnetism. Potential theory, boundary conditions on the electromagnetic field vectors, field energy. Dielectrics, conductors and magnetic materials. Offered winter only.

Prerequisite: PHY 351 and MTH 254. APM 257 desirable.

**PHY 400      Undergraduate Seminar (1)**

Graded S/U.

**PHY 405      Special Topics (2, 4 or 6)**

Prerequisite: Permission of department.

**PHY 418      Modern Optics Laboratory (2)**

Laboratory studies employing sophisticated laser, spectrometer and photon counting techniques and equipment including atomic absorption spectroscopy, intensity fluctuation spectroscopy, atomic and molecular fluorescence and Brillouin scattering. Offered winter only.

Prerequisite: PHY 371 and PHY 158.

**PHY 421      Thermodynamics (4)**

The zeroth, first and second laws of thermodynamics with applications to pure substances. Introduction to the kinetic theory of gases and to statistical mechanics. Offered fall only.

Prerequisite: PHY 361 and APM 257.

**PHY 441      Physics of Radiology I (2)**

Physical principles underlying the practice of radiology. Offered fall only.

Prerequisite: Departmental approval and PHY 371, 381 and 347.

**PHY 442      Physics of Radiology II (2)**

A continuation of PHY 441. Offered winter only.

Prerequisite: PHY 441.

**PHY 443      Physics of Nuclear Medicine I (2)**

Physical principles of diagnostic and therapeutic applications of radio-nuclides. Offered fall only.

Prerequisite: Approval of department and PHY 371, 381 and 347.

**PHY 444      Physics of Nuclear Medicine II (2)**

A continuation of PHY 443. Offered winter only.

Prerequisite: PHY 443.

**PHY 445      Medical Instrumentation (2)**

Detailed examination of the scientific instrumentation used in modern medical diagnostic and therapeutic practice. Offered winter only.

Prerequisite: Approval of department, PHY 371, 381 and 347.

**PHY 470 Relativity (4)**

Special relativity in mechanics and electromagnetism. Introduction to general relativity and gravitation. Offered winter only.

Prerequisite: PHY 361 or 371 or 381.

**PHY 472 Quantum Mechanics I (4)**

Principles of nonrelativistic quantum mechanics, Schrodinger wave equation, expectation values of energy, position, momentum and angular-momentum operators, spin, perturbation theory, identical particles. With applications to atomic systems. Offered fall only.

Prerequisite: PHY 351, 361, 371 and APM 257.

**PHY 482 Electricity and Magnetism II (4)**

Multipole fields, solutions of Laplace and Poisson equations, electromagnetic waves in insulators and conductors, radiation, and the derivation of the laws of optics from Maxwell's equations. Offered fall only.

Prerequisite: PHY 381, APM 257 and MTH 256.

**PHY 490 Independent Study and Research (2, 4 or 6)**

Prerequisite: Four credits of 300-level physics and written agreement of a physics faculty supervisor.

**PHY 497 Apprentice College Teaching (2)**

Directed participation in teaching selected undergraduate physics courses. May be repeated for a maximum of 4 credits. Graded S/U.

Prerequisite: Permission of instructor.

# DEPARTMENT OF POLITICAL SCIENCE

**Chairperson:** *Edward J. Heubel*

**Professors:** *Sheldon Appleton, Thomas W. Casstevens, Robert J. Goldstein, Edward J. Heubel, Roger H. Marz, James R. Ozinga, Carl R. Vann (Health Behavioral Sciences and Political Science)*

**Associate professors:** *Vincent B. Khapoya, William A. Macauley*

**Assistant professors:** *Richard F. Kanost, John Klemanski, Nancy Kursman, Karen Maschke, Brent Steel*

**Adjunct professor:** *Paul Wileden*

**Chief academic adviser:** *E. J. Heubel*

**Internship director:** *John Klemanski*

Political science offers a concentrated and systematic study of politics at all levels of government and in many different cultural and national settings. Policy making, law, political behavior, administration, international politics, foreign governments and theories and philosophies of government are among the many topics covered in these courses. The general educational aim is to increase the student's awareness and understanding of the broad realm of politics and government. Many students electing this major wish to prepare for careers in public service, law, practical politics or the teaching of government and social studies.

The Bachelor of Arts degree with a major in political science is the department's broadest program and is appropriate for the student with an interest in public affairs or the student who intends to enter law school or graduate school. The department also offers a major in public administration leading to the Bachelor of Science degree. This program is designed to provide appropriate analytical skills and prepare students for direct entry into public service or for specialized graduate programs in public administration and public policy. A Master of Public Administration degree is also offered by the department (see the *Oakland University Graduate Catalog*).

## Requirements for the liberal arts major in political science leading to a Bachelor of Arts degree:

To be admitted to major standing, students must complete the following core program: PS 100, 131, 222 and 223 with minimum grade of 2.0 in each course and with an average grade in the four courses of 2.50 or above.

To remain in good standing, students must maintain an average of 2.00 in their remaining political science courses. The major requires 40 credits in political science, distributed as follows:

1. The core program (14 credits: PS 100, 131, 222 and 223). PS 222 and 223 should be taken in the sophomore year if possible and no later than the junior year.
2. At least one 4-credit course must be selected from each of the three fields of political science: American politics (PS 301, 302, 305, 307, 323, 324, 342, 343, 353, 402, 403, 440, 441 and 450); comparative and international politics (PS 314, 318, 329, 330, 331, 332, 333, 334, 335, 337, 338, 410, 413, 430 and 452); political theory and political thought (PS 320, 321, 371, 372, 373, 377 and 480) for a total of 12 credits.
3. The remaining 14 credits in political science are electives, with the following restrictions: only 4 credits of PS 110 and no more than 12 credits of PS 390 and 490 will be accepted in the major.

## Requirements for the liberal arts major in public administration and public policy leading to a Bachelor of Science degree:

To be admitted to major standing, students must complete the following core program: PS 100, 131, 222 and 223 with a minimum grade of 2.0 in each course and with an average grade in the four courses of 2.50 or above.

To remain in good standing, students must maintain an average of 2.00 in their remaining major and corequisite courses. The major requires 56 credits, distributed as follows:

1. The core program (14 credits: PS 100, 131, 222 and 223). PS 222 and 223 should be taken in the sophomore year if possible and no later than the junior year.
2. The sequence of departmental courses (26 credits. Required are: PS 257, 350, 353, 453, 454 and 458). Enrollment in PS 458 (8), the Public Affairs Internship, must be preceded by consultation with John Klemanski, director of internships. If the student does not elect to take PS 458, an alternative 8 credits of political science, approved by the chief adviser, are required.
3. The corequisites (16 credits). The following courses are required: ACC 200, STA 225, and ECN 200 and 201 (ECN 210 — 6 credits — is acceptable in lieu of 200 and 201).

For students contemplating graduate school, MTH 141 and 122 are strongly recommended.

## Departmental honors

Departmental honors are conferred upon graduates who successfully complete a PS 490 project and paper at the honors level during their senior year. Students seeking honors should obtain departmental permission before registering for a 490 project.

## Requirements for a major in political science with other concentrations

Students in political science may pursue a regular major in political science with a number of interdepartmental concentrations. These include, among others, American studies, applied statistics, Michigan studies, social justice and corrections, and women's studies.

## Recommended courses for prelaw students

It is recommended that political science majors interested in law school elect the law-related courses given by the department: "Law and Politics" (PS 241) and "American Legal System I and II" (PS 342, 343). For advice in planning for law school, contact the department's prelaw adviser, Assistant Professor Karen Maschke. The student should also read the Prewall Studies section of this catalog (see page 191).

## Legal Assistant Program political science credit

In cooperation with the Division of Continuing Education, the Department of Political Science sponsors courses that prepare students for the legal assistant field. In addition to the foundation courses, certain of these courses focus on areas such as general practice, litigation, probate and estate planning. Completion of the program as specified by the Division of Continuing Education leads to a diploma awarded by that division.

A student majoring in political science may offer up to 8 credits of this course work toward the 40 credits required for the major. Courses approved to date by the Committee on Instruction are listed below. For specific details, consult the program director of the Division of Continuing Education.

PS 344	(CE 2506)	Substantive Law (1)
PS 345a	(CE 2510)	Legal Research and Writing I (1)
PS 345b	(CE 2511)	Legal Research and Writing II (1)

PS 346	(CE 2520)	Real Property Transactions (1)
PS 347	(CE 2525)	Estates and Trusts (1)
PS 348	(CE 2530)	Corporations (1)
PS 349	(CE 2535)	Litigation (1)
PS 447a	(CE 2550)	Administration of Decedent's Estates (1)
PS 447b	(CE 2555)	Federal Estate and Gift Taxes (1)
PS 447c	(CE 2560)	Income Taxation of Estates and Trusts (1)
PS 447d	(CE 2565)	Drafting of Wills and Trusts (1)
PS 447e	(CE 2568)	Estate Planning and Documents (1)
PS 449a	(CE 2540)	Litigation I: Case Preparation before Trial (1)
PS 449b	(CE 2541)	Litigation II: Case Preparation before Trial (1)
PS 449c	(CE 2545)	Litigation III: Case Preparation before Trial (1)
PS 449d	(CE 2547)	Litigation IV: Anatomy of a Lawsuit (1)
PS 491		Special Topics for Legal Assistant (1)
PS 492	(CE 2599)	Legal Assistant Internship (2)

### Requirements for the liberal arts minor in political science

To earn a minor in political science, students must complete 20 credits in political science, including PS 100 or PS 131 and at least 8 credits at the 300-400 level.

## Course Offerings

### PS 100 Introduction to American Politics (4)

The decision-making process in the American national government and the ways in which parties, groups, and individuals work to produce public policy in Congress, the Presidency and the courts. *Satisfies the university general education requirement in social science.*

### PS 110 Contemporary Political Issues (4)

Selected topics dealing with current political issues or public policy problems. The particular topic will be announced at the time of offering. Designed for the general student. May be repeated for credit with different topics.

### PS 115 U.S. Foreign Policy (4)

Foreign policy issues and challenges confronting the U.S. in the nuclear age in light of the historical evolution of American diplomacy and in light of the limitations imposed upon foreign policy makers by public opinion and the exigencies of domestic politics. *Satisfies the university general education requirement in social science.*

### PS 131 Foreign Political Systems (4)

Analysis of contemporary politics and governmental systems of selected countries; types chosen range from established constitutional democracies and totalitarian systems to movements and regimes of new developing nations. Offered fall and winter. *Satisfies the university general education requirement in social science.*

### PS 203 The Politics of Race and Ethnicity (4)

A study of racial and ethnic groups and their role in the political process in the U.S. Emphasis will be placed on the political experience and the struggle for equal rights by major minority groups such as Blacks, Hispanics and Native Americans.

### PS 222 Research Methods and Statistics (4)

A study of research design, measurement of political variables and data analysis.  
Prerequisite: One course in political science. Concurrent enrollment in PS 223 is required.

### PS 223 Computer Techniques (2)

Introduction to the computing environment at the university; microcomputer packages in word-processing, electronic spreadsheet analysis and business graphics; statistical packages on the mainframe computer. Laboratory exercises will be coordinated with materials in PS 222. Not open to students who have completed PS 220. Concurrent enrollment in PS 222 is required.

- PS 241 Law and Politics (4)**  
A broad survey of the function of law and legal systems in the political order. The student will be exposed to the classic jurisprudential, historical, anthropological and comparative treatments of the subject.
- PS 250 Politics of Survival (4)**  
An examination of environmental, regulatory and energy related political issues that challenge human survival both nationally and globally.
- PS 257 Public Affairs Careers Orientation (2)**  
Planning for public service careers; the varieties of public service careers and the alternative of pursuing advanced degrees are explored. Examples and practical problems from agency work are examined through case studies and presentations by practitioners and professional administrators.
- PS 301 American Presidency and the Executive Process (4)**  
A study of presidential politics, decision making and leadership in the American political system.  
Prerequisite: PS 100.
- PS 302 Legislative Process and Public Policy (4)**  
A study of legislative behavior and decision making, emphasizing the problems of public policy development in the American political system.  
Prerequisite: PS 100.
- PS 305 Politics of the Local Community (4)**  
Study of local governments, political forces, trends in metropolitan and suburban politics, and problems of planning in an age of urbanization.  
Prerequisite: PS 100.
- PS 307 State Politics (4)**  
Comparative analysis of the variations and similarities of the political systems of the 50 states; the policy-making structures; political participation; and contemporary public policy issues.  
Prerequisite: PS 100.
- PS 314 International Politics (4)**  
Interdisciplinary study of concepts and hypotheses basic to the understanding and analysis of political and economic relations and conflict among nations, states and other institutions in the international system. Not open to students who have completed PS 213.
- PS 318 Foreign Policies of Communist Systems (4)**  
Relations since 1917 between communist states and the Western world as well as relations among communist states.  
Prerequisite: PS 131.
- PS 320 Laboratory in Empirical Methods (4)**  
Topics include social science data management, two or three batch and conversational statistical packages, some computer programming, some statistics not covered in PS 222, and different modes of empirical political science research.  
Prerequisite: PS 222.
- PS 321 Systematic Political Analysis (4)**  
A study of formal models in political science.
- PS 323 The American People and Their Presidents (4)**  
Study of the relationships among public attitudes toward the Presidency and the political system, voting behavior in Presidential elections, and Presidential policies and leadership.  
Prerequisite: PS 100.
- PS 324 Political Parties and Elections (4)**  
The study of electoral systems, political parties, and the voting behavior of individuals and groups, with special attention to U.S. political experience.  
Prerequisite: PS 100.
- PS 329 European Political Systems (4)**  
An analysis of politics within and between nations in Europe. Selected institutions and processes are examined in detail. A comparative point of view is emphasized.  
Prerequisite: PS 131.

**PS 330 Political Development (4)**

An examination of the various approaches and theories used in comparative political research, including theories of development and modernization.

Prerequisite: PS 131 and 222.

**PS 331 Politics in Canada and the Commonwealth (4)**

An analysis and comparison of politics, parties, parliament, politicking, and public policy in Canada and selected countries of the Commonwealth.

**PS 332 Politics of the Middle East and North Africa (4)**

The cultural and historical factors that influence contemporary politics of the area will be emphasized. Topics include religion, social structures, economic problems, the impact of the West and the Arab-Israeli conflict.

Prerequisite: PS 131.

**PS 333 African Politics (4)**

Examination of politics of selected African states. Primary focus 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.

Prerequisite: PS 131.

**PS 334 Political Systems of Southern Asia (4)**

Examination of the elements of political life in India, Bangladesh and Pakistan. The cultural, historical, social and economic factors that influence contemporary political institutions; and the issues and processes by which political conflicts are resolved will be studied.

Prerequisite: PS 131.

**PS 335 Politics of Latin America (4)**

Analysis of Latin American political systems 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 characterizes the area.

**PS 337 The Soviet Political System (4)**

A descriptive analysis of the Soviet Society as a political system: its origins, institutions and political behavior. Trends and developments in the system will be assessed, and comparisons with other political systems will be undertaken.

Prerequisite: PS 131.

**PS 338 Modern Chinese Politics (4)**

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; and 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.

Prerequisite: PS 131.

**PS 342 American Legal System I: Principles and Processes (4)**

A study of the various institutions of the American legal system with emphasis on the specific policy-making tools of the judicial process.

Prerequisite: PS 100.

**PS 343 American Legal System II: Constitutional Law and Civil Liberties (4)**

Survey of American constitutional law with emphasis on civil rights as defined and protected by the judiciary. Primary emphasis on U.S. Supreme Court decisions dealing with freedoms of speech, religion and privacy; rights of the accused; racial, ethnic and sex discrimination.

Prerequisite: 241 or 342.

**PS 350 Public Administration (4)**

Study of government in action, with special attention to policy formulation, organization, personnel administration, supervision, coordination, administrative control and accountability.

Prerequisite: PS 100.



- PS 353 Public Policy Analysis (4)**  
Examines the political, economic and social factors in development, implementation and impact of public policies; the roles of interest groups, political parties, bureaucratic institutions and legislative bodies in the policy process at federal, state, and local governmental levels.  
Prerequisite: PS 100.
- PS 371 American Political Thought (4)**  
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 may also be examined with a view to their influence on America.  
Prerequisite: PS 100.
- PS 372 Western Political Thought I (4)**  
The development of Western political philosophies and ideas during the period from 600 B.C. to A.D. 1500. Major philosophers and thinkers (such as Socrates, Plato, Aristotle, Jesus, Augustine and Aquinas) are studied in the context of the significant political, economic and religious factors of their eras.
- PS 373 Western Political Thought II (4)**  
The development of Western political philosophies and ideas during the period from A.D. 1500 to the present. Major philosophers and thinkers (such as Machiavelli, Luther, Calvin, Hobbes, Locke, Rousseau, Hegel and Marx) are studied in the political, economic and religious context of their eras.
- PS 377 Communism (4)**  
The development of revolutionary socialism from early Marxism to the present. The course analyzes the relevance of Marxism to a variety of contemporary revolutionary situations. *Satisfies the university general education requirement in Western civilization.*
- PS 390\* Independent Study (2 or 4)**  
Readings not normally covered in existing course offerings. Directed on an individual basis.  
Prerequisite: Permission of department and instructor.
- PS 413 International Law (4)**  
An examination of the principles and organization of modern international law. Attention is given to the growing fields of ocean resources, outer space, environmental protection and information law.  
Prerequisite: PS 314.
- PS 452 Comparative Politics and Administration (4)**  
The role of public administrative systems in the context of diverse national environments, various levels of political development and different stages of modernization.  
Prerequisite: PS 131 and 350.
- PS 453 Public Budgeting (4)**  
The budgeting process in complex institutions, with special reference to various modern budgetary systems. Stresses use of control over flow of funds as an instrument in policy control.  
Prerequisite: PS 350.
- PS 454 Public Personnel Administration (4)**  
Study of the procedures, techniques and problems of personnel administration in public agencies; evolution of the modern civil service system, merit principle, and responses to collective bargaining and equal opportunity programs.  
Prerequisite: PS 350 and either PS 222 or STA 225.
- PS 455 Public Policy Evaluation (4)**  
Analysis of public policy making, evaluation techniques, uses of relevant information, and ethical implications of such studies.  
Prerequisite: PS 222 or a statistics course and PS 353.
- PS 456 Public Administration Strategies and Policies (4)**  
The application of the management tools of economics, political science, statistics, accounting and organizational behavior to the systematic analysis of case studies drawn from experience in the governmental sector or other not-for-profit enterprises.  
Prerequisite: Senior standing and permission of department.

- PS 458\* Public Affairs Internship (4 or 8)**  
 Supervised student internships with governmental, political and other public agencies; reports and analyses relating to agency required. Applicants must seek departmental approval at the beginning of the semester prior to that of the internship.  
 Prerequisite: PS 257 and permission of the internship director.

From time to time, the department offers advanced seminars in which a topic or problem is studied in depth, and in which significant individual student research 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 when the seminars are offered. All seminars require permission of the department before registration. Offered every semester.

- PS 402, 403 Seminar in American Politics (4 each)**  
**PS 410 Seminar in International Relations (4)**  
**PS 420 Seminar in Political Behavior (4)**  
**PS 430 Seminar in the Comparative Study of Political Systems (4)**  
**PS 440, 441 Seminar in Public Law (4 each)**  
**PS 450 Seminar in Public Policy (4)**  
**PS 480 Seminar in Political Theory (4)**  
**PS 490\* Special Topics or Directed Research (2, 4 or 8)**

\*Students are limited to 8 credits of independent study (PS 390, or 490) in any one semester, and may offer no more than 12 credits toward fulfillment of major requirements.

# DEPARTMENT OF PSYCHOLOGY

**Chairperson:** *David W. Shantz*

**Professors:** *Edward A. Bantel, David C. Beardslee, Jean S. Braun, Daniel N. BrauNSTein, Harvey Burdick, RanaLD D. Hansen, Algea O. Harrison, Keith E. Stanovich*

**Associate professors:** *Max Brill, I. Theodore Landau, Lawrence G. Lilliston, David G. Lowy, Dean G. Purcell, Ralph Schillace, David W. Shantz, Irving Torgoff, Robert B. Stewart, Jr., Harold Zepelin*

**Assistant professors:** *Virginia Blankenship, Frank Schieber*

**Assistant adjunct professor:** *Ruth Nathan*

The Department of Psychology offers undergraduate programs leading to the Bachelor of Arts degree. The psychology curriculum is structured to meet the needs of four types of students interested in majoring in psychology: the student who plans to find employment after obtaining his or her bachelor's degree; the student who plans to go to graduate school in psychology; the student who plans to enter a field other than psychology that requires further formal training; and the student who has a general interest in psychology. A pamphlet, "Majoring in Psychology at Oakland University," is available in the department office. The student planning to major in psychology should obtain a copy of this pamphlet, which offers suggested programs of study.

## **Requirements for the liberal arts major in psychology**

To earn the Bachelor of Arts with a major in psychology, students entering in fall 1987 and after must complete 40 credits in psychology, including PSY 100, PSY 250, PSY 251, and four psychology courses with numbers from 350 to 450. Students planning to attend graduate school should complete one of the experimental courses (PSY 400, 410, 411, or 412). PSY 399 may not be counted toward the major.

## **Departmental honors**

Departmental honors are conferred upon graduates who have taken at least six psychology courses at Oakland University, including PSY 251 and a 400-level experimental course, and achieved a grade point average of 3.50 or above in psychology courses. The student must also do honors-level work in PSY 494.

## **Requirements for a modified major in psychology with a linguistics concentration**

A modified major in psychology with a concentration in linguistics is available. The linguistics concentration requires 24 credits in psychology, including PSY 100, PSY 250 and at least two 300-level courses.

## **Requirements for the liberal arts minor in psychology**

To earn a minor in psychology, students must complete 20 credits in psychology, including one introductory course (PSY 100 or PSY 130), a methods course (PSY 250) and three other psychology courses, two of which must be at the 300 level or above.

## Course Offerings

### PSY 100 Foundations of Contemporary Psychology (4)

An introduction both to basic principles and recent formulations in psychology. Topics include the central psychological processes of attending, perceiving, learning, thinking, remembering, and study of social behavior and the development and organization of personality. Required of psychology majors. *Satisfies the university general education requirement for social science.*

### PSY 130 Psychology and Society (4)

Examination of relationships among people and the effects of these relationships upon them. Analysis of social functions and roles; development and change of attitudes, beliefs and values; and development of personality in relation to the social milieu. *Satisfies the university general education requirement for social science.*

### PSY 200 through 209 Topics in Psychology (4 each)

Offered occasionally on special topics of current interest that are not listed among regular offerings.

Prerequisite: See individual listings in schedule of classes.

### PSY 220 Abnormal Psychology (4)

The psychodynamics of abnormal behavior, clinical types, methods of investigation, and principles of psychotherapy.

Prerequisite: PSY 100 or 130.

### PSY 235 Social Psychology (4)

Overview of traditional and current trends in social psychology. Attention is given to developing theoretical approaches to attitudes, interpersonal processes and social perception.

Prerequisite: PSY 100 or 130.

### PSY 250 Introduction to Research Design (4)

General introduction to design, function, and interpretation of research in the social sciences. Aimed at providing necessary preparation to evaluate the empirically based content of psychology. Required of psychology majors.

Prerequisite: PSY 100 or 130.

### PSY 251 Statistics and Research Design (4)

The principal statistical procedures employed in social science research. An introduction to descriptive statistics, probability, and inferential statistics necessary to carry out and interpret social science research. Two years of high school mathematics (some algebra) are recommended.

Prerequisite: PSY 250.

### PSY 252 Statistical Analysis with Computers (4)

The principal computer packages used by social science researchers in analyzing data. A study of MINITAB serves to review basic concepts and introduce the logic of structuring data sets. The remainder of the course will focus on the BMDP and SPSS packages.

Prerequisite: PSY 251.

### PSY 270 Life-Span Developmental Psychology (4)

A survey of the principal cognitive, social and behavioral processes that operate across the life-span.

Prerequisite: PSY 100 or 130.

### PSY 271 Child Development (4)

Theory and principles of child development from birth to puberty. Selected topics include: maturational processes, learning and motivation, intelligence, self concept, and child-rearing practices.

Prerequisite: PSY 100 or 130.

### PSY 300 through 309 Topics in Psychology (2 or 4 each)

Offered occasionally by faculty wishing to explore topics of current interest not listed among regular offerings, either on their own initiative or at the request of a group of students.

Prerequisite: See individual listings in schedule of classes.

- PSY 310 Coping Strategies in the Normal Personality (4)**  
Characteristics of healthy personality in the following dimensions: need gratification, reality contact, interpersonal relationships and growth.  
Prerequisite: PSY 100 or 130.
- PSY 311 Tests and Measurement (4)**  
Theories of measurement and evaluation. Examination of construction and interpretation of tests of ability, achievement, interests and special attitudes. Objective tests of personality.  
Prerequisite: PSY 100 or 130.
- PSY 312 Psychopathology of Childhood (4)**  
The psychopathology of children and adolescents, emphasizing dynamic and cognitive-perceptual-motor variables.  
Prerequisite: PSY 100 or 130.
- PSY 313 Psychology of Exceptional Children (4)**  
Psychological approaches to those children with some exceptional condition, including the gifted, retarded, sensory disabilities, emotional disorders and physical disabilities. Consideration of developmental aspects, personality variables, assessments and psychological interventions.  
Prerequisite: PSY 100 or 130.
- PSY 314 Behavior Modification (4)**  
The theory and practice of behavioral psychology and behavior modification as it has been developed from Darwin, Pavlov, Skinner, Bandura and others.  
Prerequisite: PSY 100 plus two other psychology courses.
- PSY 324 Dehumanization (4)**  
Survey of research and literature on the effects of removing an individual's responsibility for the outcome of personal behavior. Topics include bystander apathy, over-obedience, conformity, etc.  
Prerequisite: PSY 100 or 130.
- PSY 325 Psychology of Women (4)**  
Psychological variables that repeatedly differentiate women from men; topics include sex differences in personality and learning ability, dependence, passivity, identification, role conflict and achievement motivation.  
Prerequisite: PSY 100 or 130.
- PSY 326 The Psychology of Social Issues (4)**  
Psychology's contribution to understanding selected issues of current social concern such as urban areas, jury selection, effects of television on violence, etc.  
Prerequisite: PSY 100 or 130.
- PSY 331 Psychology of Adulthood and Aging (4)**  
Psychological change, from young adulthood to death; topics include potentials for psychological growth and sources of crisis, changes in intellectual processes, attitudes toward aging, retirement, and the needs of the aged.  
Prerequisite: PSY 100 or 130.
- PSY 332 Work with the Elderly I (4)**  
Introduction to community and institutional work with the elderly. Field placement is combined with readings and lectures on psychosocial services for the elderly.  
Prerequisite: PSY 331 (may be taken concurrently with instructor's consent.)
- PSY 335 Psycholinguistics (4)**  
Identical with ALS 335.
- PSY 336 Psychology of Adolescence and Youth (4)**  
The transition to adulthood, as influenced by physiological change, intellectual growth, and social attitudes. Topics include the quest for identity, juvenile delinquency, drug use, the youth culture, relationships between generations, and vocational choice.  
Prerequisite: PSY 100 or 130.

**PSY 337            Group Behavior (4)**

Group structure, function, and process. Focus on how individuals affect the behavior of people in groups; how the group, in turn, affects the behavior of the individual. Topics include leadership, cohesion, group therapy, crowds and mobs.

Prerequisite: PSY 100 or 130, and 235.

**PSY 350            Motivation (4)**

The nature of physiological and behavioral mechanisms that control an organism's reaction to the demands of its environment.

Prerequisite: PSY 100.

**PSY 351            Learning, Memory and Thinking (4)**

Approaches to learning, memory and thinking processes. Includes conditioning, problem solving, verbal behavior, storage systems and organization.

Prerequisite: PSY 100.

**PSY 352            Sensation and Perception (4)**

Approaches to the basic sensory systems and perceptual processes.

Prerequisite: PSY 100 and 250 or equivalent, or permission of instructor.

**PSY 353            Cognitive Psychology (4)**

The information processing approach to problems in pattern recognition, selective attention, mental operations, short- and long-term memory, the psychology of reading, problem-solving and probabilistic reasoning.

Prerequisite: PSY 100 and 250.

**PSY 354            Animal Behavior (4)**

Comparative psychological, ethological and sociobiological viewpoints on behavior of animals. Emphasis will be on vertebrate species including humans. Discussion of reproductive, aggressive and social behaviors, learning, communication, etc. Stresses an evolutionary perspective.

Prerequisite: PSY 100 or an introductory biology course.

**PSY 355            Physiological Psychology (4)**

Biological bases of behavior of humans and related mammalian species: basic neuroanatomy and neurophysiology, motivation, emotion, learning and memory, sleep and dreams, sensory-motor mechanisms, brain stimulation, psychopharmacology, hormones, and behavior.

Prerequisite: PSY 100 or an introductory biology course.

**PSY 356            Sleep and Dreams (4)**

A review of facts and theories regarding sleep and dreams with demonstrations of research techniques. Topics include psychological and biological viewpoints on sleep, dreams, dream interpretation and sleep disorders.

Prerequisite: PSY 100.

**PSY 358            History and Systems of Psychology (4)**

How psychology came to be as it is. The beginning to the great experiments and the schools of psychology; the schools to World War II; World War II to the present. Men, experiments, theories.

Prerequisite: PSY 100 and two psychology courses other than PSY 251.

**PSY 359            Social Cognition (4)**

The theory and research explicating thinking processes underlying social phenomena such as impression formation, persuasion, conformity, compliance, stereotyping and causal perception. Areas of focus include attitude formation and change, attribution theory, the role of affect in cognition, schema theory and theories of nonverbal behavior.

Prerequisite: PSY 235 and 250.

**PSY 361            Psychology of Emotion (4)**

Understanding of human emotion from both a historical and theoretical viewpoint. Contemporary theoretical positions will be compared in terms of the roles cognition, behavior and psychological changes play in the emotional experience.

Prerequisite: PSY 250 plus two other psychology courses above 200.

**PSY 372            Work with the Elderly II (4)**

Field work is combined with independent readings in gerontology.

Prerequisite: PSY 332 and 250 or its equivalent, and instructor's consent.

**PSY 376 Socialization in the Family (4)**

Some areas of research and theory on socialization processes. Areas of focus: attachment and separation, conscience development, sex-role identity, ego-identity, etc. Role of principal agents, e.g., family, peers, school. Prerequisite: PSY 271, 331, or 336.

**PSY 379 Theories of Development (4)**

The principal theoretical perspectives influencing developmental psychology today. A review and comparison of these frameworks leading to a discussion of how each deals with selected current issues in developmental psychology.

Prerequisite: PSY 271, 331, 336, or permission of instructor.

**PSY 380 Theories of Personality (4)**

Major theories of human personality development and principles of personality theory building.

Prerequisite: PSY 100 and two other psychology courses.

**PSY 399 Field Experience in Psychology (4)**

The application of psychological concepts and methods in a work setting. Includes job placement with a classroom component, readings, and discussion of relevant literature. Does not count towards the major. May not be repeated for credit.

Prerequisite: PSY 250 and 16 additional credits in psychology, of which at least 8 must be at the 300-400 level.

**PSY 400 Experimental Psychopathology (4)**

Basic philosophy of science; issues in design and methodology of psychological research with application to abnormal behavior. Experience in data collection.

Prerequisite: PSY 220 and 251.

**PSY 410 Experimental Social Psychology (4)**

Theory and techniques of survey research, field experiments, laboratory experiments, and field studies. Experience in data collection; independent project required.

Prerequisite: PSY 235 and 251.

**PSY 411 Experiments in the Basic Processes (4)**

Issues in learning, perception, thinking, physiological psychology, and animal behavior, with independent research project.

Prerequisite: PSY 251, and 351, 352, or 353.

**PSY 412 Experimental Developmental Psychology (4)**

Issues in design and methodology of psychological research with application to the developmental area. Independent project required.

Prerequisite: PSY 251 and 271 or 331 or 336.

**PSY 430 Advanced Social Psychology (4)**

Critical study of selected areas in social psychology such as attribution theory.

Prerequisite: Permission of instructor.

**PSY 441 Advanced General Psychology (4)**

Current frontiers of knowledge and new methodology in the range of psychology. For senior majors who plan to attend graduate school.

Prerequisite: Permission of instructor.

**PSY 451 Advanced Topics in Clinical Psychology (4)**

Critical study of selected topics in clinical psychology such as theories of psychotherapy, advanced psychopathology, etc.

Prerequisite: PSY 220 and 380.

**PSY 470 Apprentice College Teaching (4)**

Supervised participation in teaching undergraduate psychology courses. Discussion of teaching objectives and methods. May be repeated for a total of 8 credits. Only 4 credits may be offered to fulfill major requirements.

Prerequisite: Permission of instructor.

**PSY 480 through 485 Readings and Research Projects (2 or 4 each)**  
 Individual readings or laboratory research on a topic agreed upon by a student and a member of the psychology faculty. Not more than 8 credits of readings and research project may be counted towards fulfillment of the major in psychology.

Prerequisite: Permission of instructor.

**PSY 490 through 493 Advanced Topics in Psychology (2 or 4)**  
 These courses will be offered occasionally by faculty wishing to explore special topics of current interest not listed among regular offerings, either on their own initiative or at the request of a group of students. Especially for majors, but qualified nonmajors will be admitted.

Prerequisite: See individual listings in schedule of classes.

**PSY 494 Honors Independent Studies (4)**  
 Independent honors research projects in clinical, developmental, experimental and social psychology, respectively.

Prerequisite: Permission of instructor.

**PSY 496 Senior Honors Seminar (4)**  
 Basic concepts and issues in the field of psychology, with representative topics such as mind-body, heredity-environment, learning-instinct, theories, models and paradigms, the nature of verification and measurement, and the politics of psychology.

Prerequisite: PSY 251 and two 300-level psychology courses and a grade point average of 3.50 in psychology.



# DEPARTMENT OF RHETORIC, COMMUNICATIONS AND JOURNALISM

**Acting chairperson:** *Jane Briggs-Bunting*

**Professor:** *Donald C. Hildum (director, Communication Program)*

**Associate professors:** *Jane Briggs-Bunting (director, Journalism Program), Wilma Garcia, (director, Developmental Study Program), Alice Horning, Margaret B. Pigott, Roberta Schwartz, Ronald A. Sudol (director, Freshman Rhetoric)*

**Assistant professors:** *Wallis May Andersen, Sharon Howell, David L. Lau*

**Instructor:** *Van Hillard*

**Special instructors:** *Rose Cooper, Bernadette Dickerson, Barbara Hamilton (director, Study Skills), Margaret Kierzman*

**Adjunct assistant professors:** *William C. Connellan, James Llewellyn*

**Lecturers in rhetoric:** *Anne Becker (supervisor, Internships), Michelle Benacquista, Mary Berger, Richard Burt, Barbara Dobson, Carl Dull, Catherine Haar, Martha Hammel, Mark Koch, Barbara Laboissonniere, Idele Levin, Donald Lytle, Sally Pierce, Anna Mae Powell, Jeanie Robertson, Karen Robinson, Carole Royer, David Schartman, John Stella, Carole Terry, Edward Wolff, Helen Woodman, Helen Zucker, Jack Zucker*

**Lecturers in communication arts:** *Daniel Bernard, Nanne Derby, Tim Grainey, Barbara Hunt, Lisa Olsen, Robert Parent, John Rhadigan, Kathy Rhadigan*

**Lecturers in journalism:** *Corine Abatt, Harry Atkins, Lawrence Devine, Jane Eckels, Berl Falbaum, David Frank, Leola Gee, Joe Grimm, John Guinn, Nigel Hampton, Karen Hermes-Smith, Thomas Houston, Tom Hoyt, Kelly Kolhagen-Crawford, Dane Maralason, Bill McGraw, William Mitchell, Brownson Murray, Joseph Paonessa, Jan Pung, Gary Schafer, Neal Shine, Susan Stark, Carl Stoddard, Steve VandenBrook*

The Department of Rhetoric, Communications and Journalism offers programs of study leading to the degree of Bachelor of Arts in Journalism or Communication Arts, with the opportunity to concentrate in several areas within each major. Courses are available in communication theory, public and interpersonal communication, print and broadcast journalism, public relations, advertising, oral interpretation and mass media.

The department serves the non-speech major and the general university student. Communication and journalism training can enhance almost any career or life. There are many specialized careers that welcome students with communication knowledge and writing skills, e.g., journalism, media, law, teaching. The department also serves the general university student by providing the composition courses required by the university.

## Departmental honors

All communication arts and journalism majors with a university grade point average of 3.00 or above are considered candidates for departmental honors. Honors are awarded to those candidates with the highest averages in major courses. Exact criterion averages vary from year to year, in the vicinity of 3.50.

## Rhetoric Program

The rhetoric program is designed to help students acquire the writing, reading and thinking skills necessary to perform college-level academic work. While the emphasis in composition courses is on coherent and effective writing, other modes of written communication, as well as library search techniques and research and annotation, are included in the writing curricula. In addition, the program offers courses in reading, study skills and tutorial instruction.

Students are placed in rhetoric writing courses according to the results of pre-enrollment diagnostic testing. Unless exempted, students must enroll in the course sequence assigned, which in most cases will include a two-course sequence in the form and content of composition (RHT 100 and RHT 101). These courses are designed so that a student who completes the assigned sequence with a grade of 2.0 or higher in both RHT 100 and RHT 101 will fulfill the university's requirement of writing proficiency required for graduation.

Credit-bearing developmental courses (those below the 100 level) are offered. Students enrolled in these courses should be in close contact with their advisers to ensure that they do not exceed the specific limitation of 16 credits earned below the 100 level counting toward completion of the baccalaureate degree.

## Course Offerings

### RHT 060-061 Supervised Study (1)

Two seven-week courses of tutorial instruction focusing on academic skills. A regular and concentrated series of lessons in any of a variety of subjects including mathematics, the sciences, the social sciences, theatre, art history, and composition. Graded S/U.

### RHT 063 Tutorial in English for Foreign Students (1)

A course for non-native speakers of English designed to provide tutorial assistance in grammar and composition. May be repeated for credit. Graded S/U.

### RHT 065\* Communication Skills (4)

A course introducing new students to the reading, writing, speaking, and study skills needed for success in the university. Graded S/U. *Effective September 1988, RHT 065\* will be numbered RHT 045. Credits earned after this date may not be used to satisfy minimal graduation requirements in any academic program.*

Prerequisite: Placement through Special Programs.

### RHT 075 Developmental Writing I (4)

A small-group course in basic composition skills, including techniques for idea generation, organization of written work, and mastery of writing mechanics, as well as developing fluency and a positive self-image for the writer. Placement by diagnostic testing, referral, or student's decision.

### RHT 076 Reading Skills (4)

For students who have problems in reading comprehension. Small group instruction. Initial diagnosis of reading difficulty and an individual program of study. Graded S/U.

### RHT 080 Developmental Writing II (4)

A continuation of RHT 075 to serve students who need more small-group instruction before proceeding to RHT 100 and/or RHT 101.)

### RHT 090 Grammar and Composition for Foreign Students (4)

A course for foreign students covering the basic syntax of English and the composition of short expository papers. Graded S/U.

### RHT 091 Reading English for Foreign Students (4)

A course designed to aid foreign students in the effective reading of the English language. Short composition exercises are included. Graded S/U.

**RHT 100      Composition I (4)**

Explores the formal and functional elements of expository prose, with emphasis on the process of writing. Students investigate effective syntactic and rhetorical patterns, incorporating these patterns into the composition of several short essays.

Prerequisite: Placement by testing.

**RHT 101      Composition II (4)**

A course emphasizing the process of writing to develop extended rhetorical structures, with focus on organizational patterns and the development of logic, coherence, and unity in several student compositions. Also includes fundamentals of investigation, research, and annotation.

Prerequisite: placement by testing or a grade of 2.0 or higher in RHT 100.

**RHT 103      Effective Study Skills (2 or 4)**

Designed to improve skills in the following areas: notetaking, memory and concentration, vocabulary building, preparing for and taking exams, and analytical reading.

**RHT 105      Efficient Reading (2 or 4)**

A seven- or fourteen-week course for students who understand basic material, and have a primary need for more efficient reading habits. Topics include skimming/scanning techniques, adjustment of rate, patterns of organization, drawing inferences and conclusions before and during reading, and proper use of textbooks. Graded S/U.

**RHT 110      Introduction to Critical Reading (4)**

For students who understand literal reading content, but who have difficulty with critical comprehension. Develops sophisticated reading skills for practical prose. Recommended for upper-level students contemplating graduate school.

Prerequisite: Completion of the Oakland University writing proficiency requirement.

**RHT 200      Peer Tutoring in Composition (4)**

Peer tutoring theories and pedagogies, and practical experience in teaching. Work divided between classroom and tutoring assignments. Particularly valuable for majors in the humanities, education, psychology, human services, and related fields.

Prerequisite: Completion of the writing proficiency requirement.

Recommended: A grade of 3.5 or better in RHT 101 or its equivalent.

**RHT 335      Communication Skills for Human Services Professionals (4)**

Oral and written communication skills for human services and training development professionals. Emphasis on oral presentation, development of promotion and training techniques and experience in workshops and group discussions.

Prerequisite: RHT 101 or satisfaction of university writing proficiency requirement; completion of 60 credit hours.

## Communication Program

### Requirements for the liberal arts major in communication arts

The major in communication arts consists of a minimum of 40 credits in courses labeled SCN, JRN or the THA theatre courses listed below. SCN 201 and SCN 303 are required for all areas of specialization within the major. Students should choose, in consultation with an adviser, two of six specializations within the major. The student is required to take 12 credits in each of two of the following groupings: speaking, interpersonal, rhetoric, non-verbal, mass communication, and performance. The courses in each area are as follows:

**Speaking:** SCN 280, SCN 281, SCN 308, SCN 321, SCN 401, THA 230, THA 350, THA 430;

**Interpersonal:** SCN 202, SCN 304, SCN 305, SCN 374, SCN 402, SCN 403, THA 420;

**Rhetoric:** SCN 207, SCN 220, SCN 301, SCN 310, SCN 311, SCN 318;

**Non verbal:** SCN 114, SCN 115, SCN 172, SCN 376, JRN 330, JRN 401, THA 213;

**Mass communication:** SCN 285, SCN 371, SCN 373, JRN 200, JRN 240, JRN 300, JRN 310, JRN 311, JRN 312, JRN 313, JRN 320, JRN 321, JRN 331, JRN 332, JRN 333, JRN 340, JRN 341, JRN 342, JRN 402, JRN 403, THA 460;

**Performance:** THA 267, THA 350, THA 368, THA 420, THA 460, THA 462, THA 467.

The remaining 8 credits, to make up the total of 40, will be selected from any speciality and/or from internships, independent studies, practica, workshops and apprenticeships. At least 20 credits of the total must be at the 300 or 400 level, including at least 4 credits at the 400 level.

The following theatre arts courses may be counted toward the liberal arts major in communications, the modified major with a concentration in linguistics, the liberal arts minor and the secondary teaching minor in speech: THA 213, THA 230, THA 267, THA 350, THA 363, THA 368, THA 420, THA 430, THA 450, THA 460, THA 462 and THA 467. Course descriptions can be found in the Department of Music, Theatre and Dance section of this catalog.

### **Requirements for the modified major in communication arts with a linguistics concentration**

To earn a communication arts major with a concentration in linguistics, students must complete 24 credits in SCN, JRN courses or THA courses (from the list above) and 20 credits in linguistics. SCB 303 and SCN 201 or SCN 202 are required. For linguistics requirements, see page 90 of this catalog.

### **Requirements for the liberal arts minor in communications arts**

To earn a minor in communication arts, students must complete 20 credits in SCN, JRN or THA courses (from the list above), including SCN 201 or SCN 202 and at least 12 credits at the 300 or 400 level. No more than 4 credits in independent study, internship or apprentice college teaching may be counted toward the minor.

### **Requirements for the secondary teaching minor in speech**

To earn a secondary teaching minor in speech, students must complete 20 credits in SCN, JRN or THA courses (from the list above), including SCN 201. Any student with voice or articulation problems that would handicap his or her performance as a speech teacher must include THA 230 in his or her program.

## **Course Offerings**

### **SCN 114 Introduction to American Sign Language (4)**

Conversational AMESLAN; nonverbal communication; body and facial expression integrated with a basic sign vocabulary; a survey of the various sign systems; an examination of the psychological, cultural and linguistic aspects of the deaf community.

### **SCN 115 American Sign Language (4)**

A continuation of SCN 114.

Prerequisite: SCN 114.

### **SCN 172 Media Hardware (4)**

A working knowledge of the instruments used in mass media: operation, maintenance and malfunctions. Recommended for education majors.

### **SCN 201 Public Speaking (4)**

Theory and practice in public address: adaptations required by particular goals, audience and occasions; and classroom interactions.

### **SCN 202 Group Dynamics and Communication (4)**

Group dynamics, discussion and problem solving; influences of group structure, norms, roles, leadership and climate on the processes of group communication and collaborative decision making.

### **SCN 207 Semantics (4)**

Identical with LIN 207. Satisfies the university general education requirement in language.

- SCN 220 Public Speaking on Public Issues (4)**  
The development, presentation and defense of speeches addressing public issues, including advanced concepts of audience analysis and persuasion, and the use of rhetorical strategies and aids.  
Prerequisite: SCN 201.
- SCN 280 Broadcast Announcing (4)**  
Techniques of speaking before a microphone, editing, reading copy and news broadcasting. Experience includes recording and critique of various styles of delivery.  
Prerequisite: THA 230.
- SCN 281 Broadcast Laboratory (2)**  
Announcing or other broadcast performance on campus radio station. May be repeated for a total of 4 credits. Graded S/U.  
Prerequisite: SCN 280 (may be taken concurrently).
- SCN 285 Introduction to Broadcasting (4)**  
A survey of public and commercial radio and television, including their public service, educational and religious functions; and the history, economics, influence and social control of broadcasting.
- SCN 301 Persuasion (4)**  
Analysis of persuasion in current society, psychological bases of persuasion, ethical considerations, and distinctions between debate and persuasive argument.  
Prerequisite: SCN 201.
- SCN 303 Communication Theory (4)**  
Communication theory in its broadest sense, related to individual learning, knowledge, and group interaction.  
Prerequisite: Completion of 32 hours.
- SCN 304 Communication of Organizations (4)**  
Communication theory and practice within organizational systems.
- SCN 305 Interpersonal Communication (4)**  
Elements, purposes and patterns of communication and their effects; experience in interviewing, decision making and tutoring.  
Prerequisite: SCN 202.
- SCN 308 Forensics Laboratory (2)**  
Practice for forensic festival or competitive events such as public address and oral interpretation. May be repeated for up to 6 credits.  
Prerequisite: SCN 201.
- SCN 310 Philosophy of Rhetoric (4)**  
Identical with PHL 310.
- SCN 311 Rhetoric and Public Address (4)**  
Introduction to the history and theory of rhetorical criticism and public address, contrasting Aristotle's rhetoric with contemporary theorists.  
Prerequisite: SCN 201.
- SCN 318 Argumentation and Debate (4)**  
Theories of argumentation from the classical to the contemporary period combined with debating experience. Propositions of fact, value and policy are distinguished and related to the construction and selection of argument. Debate experience will focus on the national intercollegiate proposition.  
Prerequisite: SCN 201.
- SCN 371 Forms and Effects of Mass Communication (4)**  
Identical with SOC 371.
- SCN 373 Social Control of Mass Media (4)**  
Identical with SOC 373.
- SCN 374 Cross Cultural Communications**  
Identical with ALS 374 and AN 374.

**SCN 376 Introduction to Television Production (4)**

The essential elements of television as a medium, its capabilities and limitations. Practical experience in studio and/or field work.

**SCN 380 Special Topics in Communication (2 or 4)**

Various topics in communication theory and practice chosen by department faculty. May be repeated under different subtitles.

Prerequisite: SCN 201.

**SCN 401 Phonetic Theory (4)**

Identical with LIN 401.

**SCN 402 Small Groups (4)**

Identical with SOC 402.

**SCN 403 Communication Networks (4)**

The patterns of contact and information transfer in human groups, ranging from the sociometric patterns of small groups, to the formal and informal networks of organization and the large-scale exchanges of mass societies.

Prerequisite: SCN 303.

**SCN 471 Workshop in Contemporary Communication (4)**

A bridge between academic learning and professional applications in speech communication forms and media. Included in the practicum-seminar format of the workshop are field work, observation and lecture-demonstrations with professionals in various job settings.

Prerequisite: Permission of instructor.

**SCN 480 Special Topics Seminar (4)**

Group study of topics of special interest chosen by department faculty and students. May be repeated for credit with the instructor's permission.

Prerequisite: Three SCN courses.

**SCN 490 Independent Study (2 or 4)**

Special research projects in speech communication. May be repeated for a maximum of 8 credits.

Prerequisite: Junior or senior standing, 12 previous credits in the major, and completion of course application form.

**SCN 491 Internship (4)**

Experience working with professionals in various performing arts and mass communication settings. May be repeated once in a different setting for up to 8 credits.

Prerequisite: Permission of supervising faculty.

**SCN 497 Apprentice College Teaching (2 or 4)**

Assisting in teaching an undergraduate course in speech communication, and discussions with the supervising faculty member on the principles, methods and problems of such teaching.

Prerequisite: Junior standing and permission of instructor.

## Journalism Program

### Requirements for admission to the journalism major

To be admitted to major standing in journalism, students must complete:

1. RHT 100 and RHT 101 (or otherwise satisfy the writing proficiency requirement) and JRN 200 with an average grade of 3.0 or above
2. 20 credits of corequisite courses with an average grade of 3.0 or above
3. An introductory two-semester sequence in a modern language at the university level; one semester of a modern language at the second-year level or above; or two courses numbered 120 or above in mathematical or computer science

## Requirements for the liberal arts major in journalism

To earn the Bachelor of Arts degree with a major in journalism, students must complete:

1. 20 credits in journalism, including JRN 200, JRN 300, JRN 403 and JRN 404 and any two of the following: JRN 310, JRN 311, JRN 312, JRN 320, JRN 321, JRN 332, JRN 333 or JRN 340
2. 8 credits from the following: SCN 201, SCN 207, SCN 285, SCN 301, SCN 303, SCN 311, SCN 371, SCN 373, SCN 403; or for an emphasis in advertising: JRN 340, JRN 341, JRN 342, plus an advertising internship (JRN 404)
3. Corequisites (36 credits) as follows (these courses, where appropriate, may also satisfy general education requirements):
  - a. 8 credits from HST 101, HST 102, HST 114, HST 115, HST 223, HST 321 or HST 354
  - b. 12 credits from ENG 100, ENG 105, ENG 111, ENG 224, ENG 241, ENG 303, ENG 306, ENG 312, ENG 315, ENG 322, ENG 332, ENG 356, ENG 357 or ENG 369
  - c. 8 credits from PS 100 and PS 110, PS 241, PS 272, PS 273, PS 305 or PS 377
  - d. 4 credits from ECN 150 or ECN 200
  - e. 4 credits from SOC 100, AN 101 or AN 102
  - f. AMS 202 may be substituted for any one of the above courses in history; AMS 203 for any of the above courses in English; or AMS 204 for any of the above courses in political science

## Requirements for the liberal arts minors in journalism or advertising

A minor in journalism requires 24 credits in JRN courses, including JRN 200, JRN 300 and JRN 404. A minor in advertising requires 24 credits in JRN courses, including JRN 200, JRN 340, JRN 341, JRN 342 and JRN 404. The internship (JRN 404) must be taken in advertising for that minor. Communication arts majors may not count credits toward the major and either of these minors simultaneously. Journalism majors may not minor in advertising.

## Course Offerings

### JRN 200      **Newswriting (4)**

Training in the practical aspects of news gathering, interviewing and basic newswriting techniques; a discussion of the various journalism media. Some typing skills required.

Prerequisite: Completion of RHT 101 or writing proficiency requirement.

### JRN 240      **Journalism Laboratory (2)**

Work in on-campus publications under the direction of an instructor; may be repeated once.

Prerequisite: JRN 200.

### JRN 300      **Newspaper Editing (4)**

Principles and practices of the newspaper copydesk: copy reading, headline writing, makeup, and typography; preparing copy for the printer; some attention to new and developing devices in the print shop, such as those involving the computer.

Prerequisite: JRN 200.

### JRN 310      **Advanced Newswriting (2)**

Gathering information through wide reading and interviewing, writing objective in-depth news reports; and background on current social, political and economic issues.

Prerequisite: JRN 200.

### JRN 311      **Public Affairs Reporting (4)**

Practical training in the news coverage of local governments including police protection, fire control and the courts. Discussion of federal and state coverage of stories of public interest.

Prerequisite: JRN 200 and PS 100.

**JRN 312 Feature Writing (2)**

Practice in writing newspaper and magazine nonfiction features, such as human interest stories and profiles. The course will enable students to develop further their reportorial skills for careers in print journalism. A study of the purposes, styles, types and techniques of the feature story.

Prerequisite: JRN 200.

**JRN 313 Magazine Writing and Freelancing (2 or 4)**

Writing magazine-length nonfiction articles, with some discussion of the differences between newspaper feature stories and magazine pieces, how to write and sell freelance pieces, legal liabilities and rights of the freelance writer including a discussion of the U.S. copyright laws.

Prerequisite: JRN 312.

**JRN 320 Editorial Writing (2)**

Preparing and writing newspaper opinion and commentary usually found on the editorial page; forms and techniques of editorials and the editorial page.

Prerequisite: JRN 200.

**JRN 321 Reviewing: Books, Theatre, Movies (2)**

Writing newspaper reviews of the literary, visual and performing arts from recent publications, live productions, films and television. Students will be required to purchase tickets and attend various performances.

Prerequisite: JRN 200, JRN 312 and one of the following: ENG 100, 111, 224.

**JRN 330 News Photography (2)**

Fundamentals of black-and-white photographic production; practice in taking still pictures of people and events for use in newspapers and news magazines; darkroom laboratory work in developing photos.

Prerequisite: JRN 200.

**JRN 331 Media Management (2)**

Business, corporation and legal problems in the front-office operation of weekly and daily newspapers; industrial and employee magazines; radio and television stations.

Prerequisite: JRN 200.

**JRN 332 Radio-Television News (2 or 4)**

Fundamentals and techniques of preparing news for broadcasting, especially the different demands of electronic journalism from those of the print media.

Prerequisite: JRN 200.

**JRN 333 Public Relations and the Media (2)**

A study of the function of agency, industrial, business and institutional relations with the public through newspaper, radio, television and other media, especially concerning press information; preparation of copy; some attention to employee publications.

Prerequisite: JRN 200.

**JRN 340 Introduction to Advertising (4)**

Advertising in print and electronics media from the standpoint of marketing, its social and legal environment, and strategy decisions in the profession.

Prerequisite: JRN 200.

**JRN 341 The Advertising Medium (4)**

Further study of the advertising industry including trends, design, marketing strategy and the technical problems of planning a product campaign.

Prerequisite: JRN 340.

**JRN 342 Case Studies in Advertising (4)**

The study of actual case histories of various companies and projects as well as the analysis of problems within a market. An assigned case study is required.

Prerequisite: JRN 340 and JRN 341.

**JRN 401 Advanced Photojournalism (4)**

Photography in the news media including work in use of 35mm SLR cameras, darkroom techniques, and a brief discussion of marketing for publication.

Prerequisite: JRN 330.



**JRN 402 Ethical Issues in the Media (4)**

A study of professional ethics with an emphasis on print journalism though helpful and applicable to electronic journalism as well. Discussion format where students analyze a series of factual problems that arise in daily media operations.

Prerequisite: JRN 200 or junior standing.

**JRN 403 Law of the Press (4)**

State and federal laws dealing with libel, contempt of court, right of privacy, copyright and other legal matters affecting newspapers, radio and television and other media.

Prerequisite: JRN 300, or pre-law student.

**JRN 404 Journalism Internship (4)**

A full- or part-time internship on a weekly or daily newspaper, radio or television station, or with a public relations or advertising office for one semester. Open only to students in the journalism program, usually in the senior year. May be repeated once in a different medium.

Prerequisite: JRN 200 and three other JRN courses.

**JRN 480 Special Topics in Journalism (2 or 4)**

Various specialties offered to students. Subjects change from semester to semester, with some opportunity for independent study. May be repeated under different subtitles.

Prerequisite: JRN 200.

**JRN 490 Independent Study (2 or 4)**

Individual research projects in journalism.

Prerequisite: Junior or senior standing, 12 previous credits in the major, and completion of the course application form.