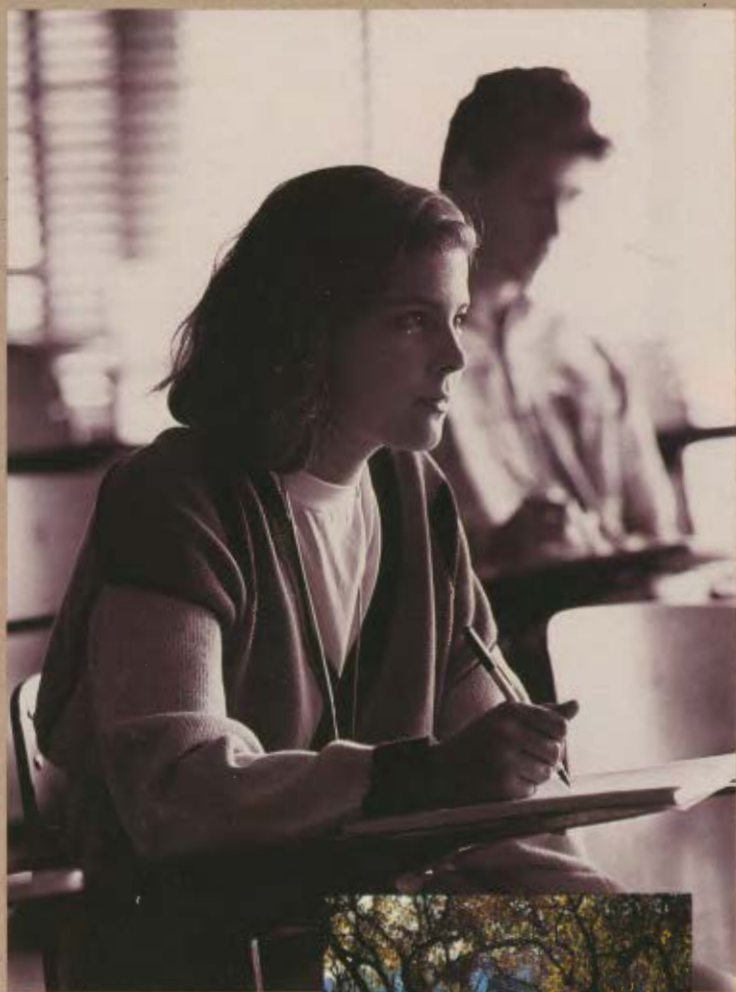


OAKLAND UNIVERSITY



1990-91 UNDERGRADUATE CATALOG



OAKLAND UNIVERSITY

1990-91 UNDERGRADUATE CATALOG

June 1990 Volume XXX

Published by Oakland University, Rochester, Michigan

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

Price \$1

Available at the University Bookcenter

Ref.

LD

4142

.0342

034

1990-1991

c.1

Oakland University is a legally autonomous state institution of higher learning. Legislation creating Oakland University as an independent institution, separate from Michigan State University, was established under Act No. 35, Public Acts of 1970. The university is governed by an eight-member board of trustees appointed by the governor with the advice and consent of the Michigan Senate.

As an equal opportunity and affirmative action institution, Oakland University 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, Michigan 48309-4401.

Contents

Academic Calendar	6
Introduction	7
General Information	10
Academic Policies and Procedures	30
General Education Requirements	35
University Library	48
Other Programs	50
College of Arts and Sciences	53
Department of Art and Art History	59
Department of Biological Sciences	65
Department of Chemistry	74
Department of Economics	81
Department of English	84
Department of History	90
Center for International Programs	97
Department of Linguistics	101
Department of Mathematical Sciences	105
Department of Modern Languages and Literatures	113
Department of Music, Theatre and Dance	126
Department of Philosophy	142
Department of Physics	147
Department of Political Science	153
Department of Psychology	160
Department of Rhetoric, Communications and Journalism	166
Department of Sociology and Anthropology	175
Biochemistry Program	184
Environmental Health	186
Other Academic Options	189
Honors College	202
New Charter College	204
Center for the Arts	205
School of Business Administration	206
School of Education and Human Services	229
Department of Curriculum, Instruction and Leadership	232
Department of Human Development and Child Studies	238
Department of Human Resource Development	241
Department of Reading and Language Arts	250
School of Engineering and Computer Science	251
Department of Computer Science and Engineering	262
Department of Electrical and Systems Engineering	266
Department of Mechanical Engineering	270
Engineering Sciences Programs	274
General Studies	288

Contents continued

School of Health Sciences	291
Exercise Science Program	293
Health Behavioral Sciences Program	295
Industrial Health and Safety Program	296
Medical Laboratory Sciences Program	299
Physical Therapy Program	305
School of Nursing	310
University Faculty	318
Offices of the University	332
Course Reference	338
Index	339

Academic Advising Index

Academic Services and General Studies

121 North Foundation Hall
370-3227

General Studies
Undecided—No Major Preference

College of Arts and Sciences

219 Varner Hall
370-4567

African and Afro-American Studies

Anthropology

Applied Statistics

Art History

Biochemistry

Biology

Chemistry

Chinese Language/Civilization

Communication Arts

East Asian Studies (China or Japan)

Economics

Engineering Chemistry

Engineering Physics

English

Environmental Health

French

German

History

Independent major

Journalism

Latin American Language/Civilization

Latin American Studies

Linguistics

Mathematics

Medical Physics

Music

Philosophy

Physics

Political Science

Psychology

Public Administration and Policy

Russian Language/Civilization

Slavic Studies

Sociology

South Asian Studies (India)

Spanish

Undecided—Fine Arts, Letters,
Science/Math or Social Science

School of Business Administration

433 Varner Hall
370-3285

Accounting

Economics

Finance

General Management

Human Resources Management

International Management

Management Information Systems

Marketing

Quantitative Methods

Academic Advising Index continued

School of Education and Human Services

472 O'Dowd Hall
370-4182 (Education)
370-3066 (HRD)

Early Childhood Education (HRD)

Elementary

Human Resource Development

Training and Development (HRD)

Youth and Adult Services (HRD)

Undecided—Education

School of Engineering and Computer Science

159a Dodge Hall
370-2201

Computer Engineering

Computer Science

Electrical Engineering

Engineering Chemistry

Engineering Physics

Mechanical Engineering

Systems Engineering

Undecided—Engineering/Computer Science

School of Health Sciences

159 Vandenberg Hall
370-4195

Cytotechnology

Exercise Science

Histology

Industrial Health and Safety

Medical Laboratory Sciences

Medical Technology

Nuclear Medicine

Physical Therapy

Undecided—Health Sciences

School of Nursing

434 O'Dowd Hall
370-4071

Nursing

Undecided—Nursing

For More Information

Area code: (313)

Admissions: 370-3360 (undergraduate)/370-3166 (graduate)

Information: 370-2100

Loans and student employment: 370-3370 (Financial Aid Office)

Scholarships and grants: 370-3360 (new students)/370-3370 (returning students)/
370-3166 (graduate students)

Student affairs: 370-3352 (Student Life Office)

Student housing: 370-3570 (Residence Halls Office)

Academic Calendar

Fall 1990

Registration	Tue	August 28
Labor Day holiday	Mon	September 3
Classes begin	7:30 a.m., Tue	September 4
Fall commencement	Sun	September 23
Thanksgiving recess begins	10 p.m., Wed	November 21
Classes resume	7:30 a.m., Mon	November 26
Classes end	10 p.m., Tue	December 11
Study period	Wed	December 12
Exams begin	7 a.m., Thu	December 13
Exams end	10 p.m., Wed	December 19

Winter 1991

Registration	Wed	January 2
Classes begin	7:30 a.m., Thu	January 3
Winter recess begins	10 p.m., Sat	February 23
Classes resume	7:30 a.m., Mon	March 4
Classes end	10 p.m., Wed	April 17
Study period	Thu	April 18
Exams begin	7 a.m., Fri	April 19
Exams end	10 p.m., Thu	April 25

Spring 1991

Registration	Mon	April 29
Classes begin	6 p.m., Mon	April 29
Memorial Day holiday	Mon	May 27
Spring commencement	Sat	June 1
Classes end	10 p.m., Wed	June 19
Final exams	Thu, Fri	June 20, 21

Summer 1991

Registration	Mon	June 24
Classes begin	7:30 a.m., Tue	June 25
Independence Day recess	10 p.m., Wed	July 3
Classes resume	7:30 a.m., Mon	July 8
Classes end	10 p.m., Wed	August 14
Final exams	Thu, Fri	August 15, 16

INTRODUCTION

Oakland University is a comprehensive, state-assisted institution of approximately 12,000 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, Nursing, and a program 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.

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 \$6 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 major eye research center in the United States not associated with a 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. An unusually high proportion of Oakland University alumni have gone on to earn doctoral degrees or other distinction in their fields.

Resources available to support scholarly activities of students and faculty include both library and computing facilities. The central university library is Kresge Library which has additional specialized collections and services in performing arts and education. Computing facilities include eight comprehensive minicomputer systems and several hundred microcomputers, linked by a fiber optic network.

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.

From its beginnings, the university has emphasized academic quality, concentrating on providing its students with a broad liberal education by a faculty of dedicated scholar-teachers. 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 1,500 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.

Role and Mission

The following role and mission statement for the university was adopted by the Oakland University Board of Trustees on July 21, 1982. It emphasizes four essential ingredients for the direction of the university: excellent and relevant instruction; high quality basic and applied research and scholarship; responsive and effective public and community service; and a comprehensive schedule of student development activities.

As a state-supported institution of higher education, Oakland University has a three-fold mission. It offers instructional programs of high quality that lead to degrees at the baccalaureate, master's and doctoral levels as well as programs in continuing education; it advances knowledge and promotes the arts through research, scholarship, and creative activity; and it renders significant public service. In all its activities, the university strives to exemplify educational leadership.

Instruction

Oakland University provides rigorous educational programs. A strong core of liberal arts is the basis on which undergraduates develop the skills, knowledge and attitudes essential for successful living and active, concerned citizenship. A variety of majors and specialized curricula prepare students for post-baccalaureate education, professional schools, or careers directly after graduation. Each program provides a variety of courses and curricular experiences to ensure an enriched life along with superior career preparation or enhancement.

The university offers master's programs that meet demonstrable needs of Michigan residents and that maintain excellence. Doctoral programs are offered which are innovative and serve needs that are not adequately met elsewhere in the state.

Offerings in continuing education provide Michigan residents with high quality course work for professional development and personal enrichment.

Oakland University is selective in its admission standards and seeks both traditional and nontraditional students, ensuring equal opportunity to all who can profit from its offerings. 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 faculty and staff cooperate with nearby community colleges to ensure that their students who seek to transfer to Oakland University are well prepared for work at a senior college. In recruiting and admitting students, enrollments are not permitted to exceed numbers consistent with preserving the high quality of instruction.

The university strives to remain current and relevant through an adequate program of continuing faculty development and the exploration of innovative schedules, methods, and curricular design in keeping with the various needs of its diverse students, many of whom commute, work or are older than the traditional college-age student.

Oakland University offers, and will continue to offer, only those programs for which adequate resources and well-prepared faculty are available and for which a demonstrable need expressed through the attraction of qualified students exists.

Research and scholarship

Oakland University assumes an obligation to advance knowledge through the research and scholarship of its faculty and students. The university's research and scholarship mission takes expression in a variety of forms ranging from basic studies on the nature of things to applied research directed at particular problems to contributions to literature and the arts. Within its means the university provides internal financial support for research and scholarship. Simultaneously, it pursues with vigor external sources of support. Research institutes, financed primarily by outside grants, make an important contribution to this mission.

In addition to their intrinsic value, research and scholarship reinforce the instructional mission of the university. Wherever possible, students are involved in research projects, and the results of research and scholarship are integrated into related courses of instruction.

In carrying out its research and scholarship mission the university seeks especially to be responsive to the needs of Michigan, particularly of the populous southeastern sector. Application of research and scholarship to problems and concerns of the state's business and industry and to its scientific, educational, governmental and health and human-service agencies serves also to reinforce the public service role of the university.

Public service

Oakland University serves its constituents through a philosophy and program of public service that are consistent with its instructional and research missions. It cooperates with businesses, governmental units, community groups, and other organizations on research, technical development and problem-solving enterprises in an attempt to apply the expertise of the university to the issues of society in general or the region in particular so as to further enhance the quality of life in the service areas of the university. It attempts to maintain the degree of flexibility necessary to respond with innovative instruction, research, and other service to rapidly changing needs. It makes its facilities available for a multitude of activities of agencies and community groups whose purposes are compatible with the mission of the university. It provides access to its programs and campus, insofar as is consistent with the role and scope of the institution, for the recreational and physical enrichment of area citizens. Cultural enrichment is provided for the community through the Meadow Brook enterprises, on- and off-campus presentations by faculty and students, and other campus events. The university aims to provide a model of socially responsible decision making and ethical institutional behavior, recognizing that institutional strength derives from an effective interaction with the institution's diverse external environs.

Student development

In direct support of its academic mission, Oakland University provides basic services and experiences which integrate cognitive learning with the personal growth of the individual student in the emotional, social, physical, cultural, ethical and interpersonal domains. In so doing, the university seeks to facilitate the development of those personal skills which will contribute to informed decision making and productive citizenship. This objective is accomplished through a variety of student enterprises including campus organizations, athletics and other sponsored activities and events.

Key to its achievement is the provision of a governance system in which students play a meaningful role in the institutional decision-making processes.

The university takes particular cognizance of its considerable enrollment of older and non-traditional students and provides advising, counseling and other services of special value to such students in effecting career changes and developing additional personal competencies.

Through the maintenance of complementary academic and extracurricular environments, Oakland University assists students in the realization that life is a continuum of growth, change and adaptation and provides them with the skills essential to the achievement of their fullest potential.

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 business 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 academic background, including high school academic achievement, educational goals and potential for success at Oakland University. Students applying as freshmen must submit scores from the American College Test (ACT).

Normally, Oakland University will admit students with cumulative grade point averages in academic subjects of 3.20 or above. Applicants with cumulative grade point averages below 3.20 but above 2.50 may be admitted after consideration of the quality of their academic preparation and their ACT scores. In some cases, a personal interview may be requested.

Specific academic programs may impose special requirements for admission. Thus, admission to the School of Business Administration is restricted to students presenting a 2.80 cumulative grade point average in academic courses and at least four years of college preparatory mathematics courses.

Entering freshmen planning to major in engineering or computer science also should have taken at least four years of high school mathematics courses (including trigonometry), courses in chemistry and physics, and a solid background in English composition. Drafting and machine shop courses are useful, but not necessary. Normally, a 3.00 (B average) is required for admission to the School of Engineering and Computer Science.

Admission to pre-physical therapy standing requires a cumulative grade point average of 3.00 in a college preparatory program which includes courses in biology, chemistry and mathematics. A 3.0 must be earned in each of these courses.

Admission to pre-elementary education status in the School of Education and Human Services requires a high school cumulative grade point average of 2.80 or higher.

Students wishing to enter the pre-nursing program should have completed at least two (preferably three) years of high school mathematics, one year of college preparatory biology and one year of chemistry, each with a grade of 2.8, in addition to presenting a cumulative grade point average of at least 2.80.

Students who are eligible for admission to the university, but not to one of the above programs, may enter the university as undecided students but should note that only a relatively small number of students are able to qualify for admission to these programs after they have enrolled at the university.

Applications for undergraduate admission are available from high school counselors or from the Office of Admissions (205 Wilson Hall, 370-3360). 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. Students wishing to take subsequent courses must receive the principal's endorsement for each term they plan to enroll.

Transfer students

Students who wish to transfer to Oakland University should consult the *Transfer student information* section for information on admission and requirements.

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

Foreign students should write to the director of admissions at least one year before they wish to be admitted. Candidates will be sent instructions and an application form to be completed and returned at once. When the application is approved, candidates 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 students' 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 (370-3266) 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 students plan to attend as guests. 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 students hold a bachelor's or higher degree and wish 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.

Admission to non-matriculating status

Non-matriculating status may be provided to students with permission of the director of admissions. Students admitted with non-matriculating status are limited to earning 12 credits in that status and must secure regular admission to the university in order to be eligible to register thereafter. 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. Undergraduate students may register for undergraduate courses at extension sites on a non-matriculating basis if space is available.

To obtain this status, students must complete the undergraduate admissions application and pay an application fee.

Admission to second degree status

Second degree status indicates that students currently hold a bachelor's degree but wish 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*).

Reapplication for admission and readmission

Failure to provide complete application credentials prior to registration or failure to enroll for classes and pay tuition and fees invalidates an application for admission. Reactivation of such files must be requested in writing. This notification must be received by the closing date for applications for the semester students wish to enroll. An additional application fee is not required, if students reactivate within one semester of the original term of entry. However, a new application and fee are required of students who delay reapplication beyond one semester, or whose only registration at Oakland University was cancelled for nonpayment of fees.

Readmission applies to students who previously enrolled at Oakland University and whose attendance was interrupted (see *Readmission* section).

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.

College-level Examination Program (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. (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/social sciences, humanities, mathematics and natural sciences. Oakland University will grant 6 credits for each *general* examination passed with a score of at least 550, according to the following stipulations: students must have not accumulated 32 credits at the time of the examination and must have not previously received college credit in the field of the examination.

Subject examinations are offered in a variety of specific subject areas. Oakland University may, at the discretion of the academic unit responsible for the subject, grant either three or six credits for *subject* examinations passed with a score of at least 55, according to the following stipulations: non-transfer students must have accumulated fewer than 64 credits at the time of the examination, while transfer students must have earned fewer than 32 Oakland University credits; students must not have previously taken more advanced work in the field of the examination; and no credit will be granted for examinations which cover material comparable to Oakland University courses which do not carry credit toward graduation.

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 (370-3226).

Special opportunities for students

Oakland University offers students several unique opportunities for study both on and off campus. These opportunities are described here, and academic advisers and faculty members are able to assist students interested in pursuing any of them.

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 advisers in advance to determine which courses will satisfy specific Oakland University requirements in general education and their major. For further information on NSE, contact the Department of Special Advising (370-3266).

Research opportunities

Advanced students may be invited to join faculty research projects in various capacities. Because Oakland University is chiefly an undergraduate institution, such opportunities, often reserved for graduate students elsewhere, are available for undergraduate majors. Student researchers may find themselves contributing to the development of new knowledge in a field, and sharing in the publication of results of research projects. Undergraduates interested in joining faculty research projects may consult their advisers or individual faculty members concerning projects in their areas of interest.

Study Abroad

Under the sponsorship of the Center for International Programs, Oakland University students may avail themselves of five different study abroad programs. The Vienna Study Abroad Program, established in 1987, is sponsored by the Midwest Consortium for Study Abroad (MCSA). The program allows students to study for one semester in Vienna, taking courses taught in English by American and Viennese faculty. The program in Nagoya, Japan, established in 1977, features two semesters of study at Nanzan University, and is based on an exchange of students. The program at the University of Orleans in France, established in 1988, is also a two-semester exchange program. The British Studies at Oxford program, established in 1976, operates only in the summer, offering two separate three-week sessions. The program in Maibara, Shiga Province, Japan, established in 1989, provides a year of study in Japan (of the 30 state-sponsored scholarships at least one each year is designated for an Oakland University student. All programs provide credits toward baccalaureate degrees. Additional information about these programs should be directed to the Center for International Programs, 430 Wilson Hall (370-2154).

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 1989-90 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. Non-payment of fees may result in cancellation of registration. Checks returned by the bank also will place students in a non-payment status.

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

Course fees

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 \$61.00 per credit. Upper-division undergraduates will be assessed \$69.75 per credit. Graduate students will be assessed \$111.75 per credit. All students who have not maintained Michigan residency for 6 consecutive months immediately prior to enrollment will be assessed tuition at out-of-state rates: \$175.00 per credit for lower-division undergraduate students, \$190.75 per credit for upper-division undergraduate students and \$245.25 per credit for graduate students.

Registration fee

All students who register will be assessed an \$83 registration fee each term, of which \$40 is non-refundable.

Student activities fee

Students who register for on-campus credits will be charged an activities fee according to the following schedule:

Undergraduate—10 or more credits	\$9.75
Undergraduate—9 or fewer credits	\$7.25
Graduate—8 or more credits	\$2.50
Graduate—7 or fewer credits	\$2

Special course fees

Special fees 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
Computer lab fee	\$25

(See the current *Schedule of Classes* for list of applicable computer intensive courses)

Computer technology fee

Upper division undergraduate students and graduate students in computer intensive majors are charged a computer technology fee. See the current *Schedule of Classes* for a complete listing of applicable majors. The fee is charged according to the following schedule:

Upper Division Undergraduate—9 or more credits	\$80
Upper Division Undergraduate—8 or fewer credits	\$50
Graduate—7 or more credits	\$80
Graduate—6 or fewer credits	\$50

Course competency by examination fee

Students who register for degree credit by course competency examination will be assessed \$25.00 per credit.

Late registration fee

Students registering during the late registration period or paying initial fees after payment deadlines 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 third week of a semester (seventh day for spring and summer sessions and half-semester courses).

Late payment penalty

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 \$25 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 Cashier's Office and pay a non-refundable fee of \$20 (see *Undergraduate degree requirements*) by the deadline established in the *Schedule of Classes* for that semester or session.

Orientation and advising fee

A \$60 orientation and advising fee for freshmen (\$35 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: \$3,059 for the 19-meal plan (\$3,048 for room and board and \$11 hall government fee), \$2,932 for the 14-meal plan (\$2,921 for room and board and \$11 hall government fee) and \$2,843 for the 9-meal plan (\$2,832 for room and board and \$11 hall government fee). Single rooms may be rented, as available, for an additional \$480.

If students sign 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 students withdraw from Oakland University, room and board fees are refunded on a prorated basis net of an early withdrawal assessment of \$45. Formal notice of withdrawal must be given to the residence halls office.

Refund of fees

Students who withdraw from Oakland University and drop courses that reduce their total credit load are eligible to receive a partial 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 Academic Standing, Readmissions and Withdrawals Office (370-3264). Graduate students withdrawing from Oakland should apply to the Office of Graduate Studies (370-3168). Reductions in a student's credit load that would result in a refund are processed by the Registration Office (370-3450). 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 four weeks after an application has been made to the appropriate office.

Out-of-state tuition regulations

Students enrolling at Oakland University shall be classified as in-state or out-of-state students for purposes of assessing tuition charges. It is the student's responsibility to register each semester or session under the proper in-state or out-of-state classification. For the purpose of these regulations, an in-state student shall be defined as one of the following:

1. A person who has a lawful Michigan domicile and has lived in Michigan six months immediately preceding his or her enrollment, where "enrollment" means the earlier of either the day fees are due and payable or the first class meeting; or
2. A person who was domiciled and resided in Michigan for a consecutive period of at least five years, who subsequently left the state for a period no longer than one year, and has returned and established a Michigan domicile and resides in the state.

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 been a bona fide domiciliary of Michigan for at least six consecutive months. A student shall not be considered a bona fide domiciliary of Michigan unless he or she has continuous physical presence in Michigan and intends to make Michigan a permanent home, not only while in attendance as a student at the university, but indefinitely thereafter.

An alien who has been lawfully admitted for permanent residence in the United States shall be treated for classification purposes as if he or she were a citizen of the United States. An alien who is present in the United States on a student visa shall not be eligible for classification as an in-state student, regardless of length of stay in Michigan, except that this disqualification shall not be automatic in the case of a person on a lawful student visa whose parent(s) are simultaneously resident in the state on a visa other than a student visa. In this latter instance and in the case of an alien lawfully present in the United States on any other non-immigrant visa, the determination of classification shall be made on a case-by-case basis by the university president or his designee after the six-month durational requirement has been met, taking into consideration the appropriate enumerated factors in the following paragraph.

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 to in-state status by obtaining an Application for Reclassification from the Provost's office, 520 O'Dowd Hall. The student shall complete the application and list in detail the reason(s) he or she is a bona fide domiciliary of Michigan, and attach documentary data in support thereof, and return the application to the university registrar 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 for reclassification after the six-month durational requirement has been met:

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 relatives or persons legally responsible for the student.

4. Maintenance of significant connections within Michigan while temporarily absent from the state and a continued intent to retain Michigan as a domicile.
5. Ownership of a home.
6. Long-term military commitments in Michigan.
7. Acceptance of offer of permanent employment in Michigan.
8. In the case of aliens on temporary non-student visas, length of stay in Michigan and sources of economic support.
9. Other factors indicating an intent to make Michigan the student's permanent domicile will be considered by the university in reclassifying a student.

The following circumstances, standing alone, shall not constitute sufficient evidence of domicile to effect reclassification of a student under these regulations:

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. Automobile registration.
7. Other public records such as birth and marriage records.

Any student desiring to challenge his or her classification under the foregoing regulations of the Oakland University Board of Trustees shall have the right to appeal the determination. Petitions of Appeal and inquiries regarding these out-of-state tuition regulations should be addressed to: Chairman, Out-of-State Tuition Committee, 520 O'Dowd Hall, Oakland University, Rochester, Michigan 48309-4401.

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 students and their families. Aid offered by the university supplements, but does not replace, funds provided by students and their families.

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 Perkins Loan program, the College Work Study 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 Work Study program, the Stafford Loan program, and the PLUS/SLS loan programs.

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 available from the Financial Aid Office, 161 North Foundation Hall (370-3370).

Financial aid academic requirements

Oakland University is committed to providing fair and equal access to resources based upon financial need to meet educational costs for students. In order to receive federal, state and institutional financial aid at Oakland University, the academic progress standards outlined in this statement must be met. These progress standards are applicable to the following programs: Pell Grants, Supplemental Educational Opportunity Grants, College Work-Study, Perkins Loans, Stafford Loans, PLUS/SLS Loans, Michigan Competitive Scholarships, Michigan Educational Opportunity Grants, Michigan Adult Part-Time Grants, Michigan Work-Study, Oakland University Grants and Oakland University Institutional Scholarships.

The Financial Aid Office monitors the academic progress of continuing students at least once each year after winter semester. The complete academic record at Oakland University is used to determine whether students satisfy the progress requirements even if financial aid was not awarded for the entire period.

Standards that determine academic progress

Undergraduate students pursuing a first bachelor's degree must:

1. Maintain a cumulative grade point average (GPA) of 2.00. (Students who entered the university prior to fall semester 1984 must maintain a cumulative academic progress indicator (API) of 2.00); and
2. Make progress toward their degree according to the table below. This standard allows full-time students up to 10 semesters to complete a degree; part-time students may use 20 semesters. In order to complete a degree within the limit, students must complete a minimum number of credits each academic year (fall and winter semesters).

After this number of academic years	1	2	3	4	5	6	7	8	9	10
Full-time students must have completed cumulative credits of:	20	42	66	94	124					
Part-time* students must have completed cumulative credits of:	10	20	31	42	54	66	80	94	109	124

*For this purpose, part-time enrollment is 6 to 11 credits. The Financial Aid Office will monitor the academic progress of students whose enrollments vary between full- and part-time by adjusting the scale accordingly.

The above numbers identify **minimum credits to complete**, not recommended enrollment. Full-time status requires a student to be enrolled for at least 12 credits per semester; part-time status requires at least 6 credits per semester. Following the minimum standard for satisfactory academic progress will not allow a student to advance to the next grade level each academic year.

For transfer students, the starting point on the above scale is determined by the number of credits Oakland University accepts in transfer.

Second undergraduate degree and post-baccalaureate students who enroll full time must complete at least 24 credits per year; those who enroll part time must complete at least 12 credits per year. A cumulative GPA/API of at least 2.00 must be maintained.

Graduate students who enroll full time must complete at least 16 credits per year; those who enroll part time must complete at least 8 credits per year. Progress and GPA requirements for graduate students are determined and monitored by the Office of Graduate Study.

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. Many awards are made in early spring for the next academic year and are only available to those students entering in the fall semester. Most scholarships are renewable if recipients meet 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 the scholarships awarded to new incoming students by the Office of Admissions:

Oakland University Presidential Scholarship: Awarded each year to four high school students recognizing outstanding academic achievement and citizenship. Applicants must have a minimum 3.50 high school G.P.A. and be interviewed by a university representative. The scholarships are \$6000 per academic year and may be renewed for a total of eight semesters.

Alumni Memorial Scholarship: Recognizes high academic achievement. Applicants should have a minimum of 3.75 high school 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 for a maximum of eight semesters as long as a 3.25 GPA is maintained.

Boys and Girls Club of Royal Oak Scholarship: Awarded to a student recommended by the director of the Boys and Girls Club of Royal Oak. The scholarship is \$800 per academic year and is renewable for a maximum of eight semesters.

Community College Scholarship: Recognizes 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.

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

Engineering Scholarship: 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 for a total of eight semesters as long as the recipient maintains a 3.00 GPA and continues to major in engineering.

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

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 of 3.40 high school GPA. Scholarships are \$1,500 per academic year and may be renewed for 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 for a total of eight semesters as long as the recipient maintains a cumulative 3.25 GPA and resides in the residence halls.

Music Scholarship: 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 for 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, Theatre and Dance.

Oakland University Competitive Scholarship: 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 for a total of eight semesters as long as a 3.00 GPA is maintained.

Oakland University Foundation Scholarship: 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 for a total of eight semesters. A cumulative GPA of at least 3.25 is required.

Robert C. Howes Scholarship: Awarded every four years beginning with the fall 1988 semester to an entering Honors College student. Applicants must have a minimum 3.50 grade point average, a composite score of 25 or above on the ACT examination, and be recommended by the Honors College director and council. The scholarship covers full tuition per academic year and is renewable upon recommendation of the Honors College Council.

Scholars of Distinction: Recognizes academic performance of entering high school students. Students must have a minimum 3.30 high school GPA and must be nominated by a high school teacher. Scholarships range from \$1,000 to \$2,000 per academic year and may be renewed for a total of eight semesters as long as the recipient maintains a 3.20 GPA.

Student Life Scholarship: 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 for a total of eight semesters for students who enter as freshmen or four semesters for students who enter as transfers.

Oakland University also offers scholarships to students with special skills or abilities. Normally, applications are not required as recipients are identified by their talent or skill in a particular area. These scholarships are as follows:

Athletic Scholarship: Awarded to men and women athletes with ability in one of the intercollegiate sports offered at Oakland. Scholarship amounts vary and are renewable for a maximum of eight semesters.

Gittlen Award for Achievement: Awarded annually to two seniors who have been active in the theatre. Recipients are chosen by the Department of Music, Theatre and Dance. The award amount varies.

John F. Engerson Vocal Music Award: Awarded annually to a music student majoring in voice. The recipient is chosen by competitive audition. The award amount varies.

Joseph Weintraub Memorial Scholarship: Awarded annually to a student studying piano. The recipient is selected by competitive audition. The award amount varies.

Marshall Page Atkinson Endowed Memorial Scholarship: Awarded each year to a student of outstanding promise in the area of professional performance as selected by the Department of Music, Theatre and Dance.

Robert W. and Elaine M. Swanson Endowed Scholarship: Awarded each year to a student of outstanding promise in the area of professional performance as selected by the Department of Music, Theatre and Dance.

Service Award: Awarded primarily to entering students who intend to major in music, theatre or dance. Recipients are selected by competitive audition late in the winter semester. Award amounts vary and are renewable.

In addition to the Alumni Memorial Scholarship described above, the alumni of Oakland University support a number of different scholarships through their contributions. These include the following:

Arts and Sciences Alumni Affiliate Scholarship: Up to two scholarships of \$750 awarded annually to qualified junior or senior students majoring in the arts and sciences. Applications are available in February from the Arts and Sciences Advising Office and the Alumni Office.

Geraldene Felton Award for Leadership (Nursing Alumni Affiliate): Awarded each year to a senior nursing student who has demonstrated his/her leadership abilities. One \$600 award is offered annually. Applications are available in February from the Nursing Advising Office and the Alumni Office.

Frances C. Amos School of Business Administration Alumni Affiliate Scholarship: Up to two scholarships of \$750 awarded annually to qualified students with major standing in the School of Business Administration. Applications are available in February from the SBA Advising Office and the Alumni Office.

Black Alumni Affiliate Award for Student Achievement: Up to three scholarships of \$500 awarded annually to qualified students of at least sophomore standing. Applications are available in February from the Academic Services and General Studies Advising Office and the Alumni Office.

Thomas A. Yatooma Memorial Scholarship (School of Engineering and Computer Science Alumni Affiliate): Up to four scholarships of \$1,000 awarded annually to engineering or computer science majors. Applications are available in February from the Engineering and Computer Science Advising Office and the Alumni Office.

A variety of other scholarships are also available to students. These scholarships recognize overall academic achievement, achievement within a major or other specified criteria.

American Association of University Women (Farmington Branch) Scholarship: Awarded to mature students with family responsibilities whose undergraduate education has been interrupted. Applications are available in February from the Financial Aid Office. Generally, two scholarships are offered annually and the award amount varies.

Carmine Rocco Linsalata Memorial Scholarship: 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 the late Carmine Rocco Linsalata, professor of Spanish and Italian at Oakland from 1966 to 1980.

Chrysler-Plymouth Dealers Association of Greater Detroit Endowed Scholarship: Awarded annually to an employee or a child or grandchild of an employee of one of the dealerships.

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. Applications are available from the CIPO office.

Doris J. Dressler Scholarship: A scholarship of \$1,000 awarded annually to an English or humanities major (junior year or beyond) demonstrating academic promise and financial need. The recipient is selected by English and humanities faculty.

Greater Detroit Dodge Dealers Association Endowed Scholarship: Awarded annually to an employee or a child or grandchild of an employee of one of the dealerships.

Don R. Iodice Grant-in-Aid for Foreign Study: Available to foreign language majors enrolling in a language program abroad for at least four weeks. (This award is only for those students who will return to Oakland University for a minimum of two full semesters.)

Honors College Scholarship: Awarded based on performance on a competitive examination and an interview with the Honors College Council. Recipients are selected by the council. Awards range from \$250 to \$1,000.

History Department Scholarship: 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.

James Morrison Thompson Chemistry Scholarship: Awarded to an eligible chemistry major 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.

Macomb Town Hall Scholarship: Awarded to upperclass undergraduate students from Macomb County in recognition of academic excellence. Scholarships are in the amount of \$1,000 and are awarded for one year. Recipients are selected by the Macomb Town Hall Scholarship Committee.

Milo J. Cross Memorial Scholarship: Awarded annually to a student in recognition of academic excellence. Preference is given to the children, grandchildren or spouses of employees of the former Pontiac State Bank. The award amount varies.

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 faculty of the Department of English.

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 faculty of the School of Nursing.

Oakland University Foundation George T. Matthews Scholarship in the Humanities: A scholarship of \$1,250 awarded annually to a junior or senior majoring in the humanities. The recipient is chosen by the dean of the College of Arts and Sciences.

Philosophy Department Scholarship: A scholarship of \$1,200 awarded annually to a philosophy major demonstrating academic promise. The recipient is chosen by the faculty of the Department of Philosophy.

Robert E. Simmons Tuition Grant: Two one-semester tuition grants for qualified students majoring in German.

Stephan Sharf Endowed Scholarship: Awarded annually to an employee of Chrysler Corporation or a son or daughter of an employee of Chrysler Corporation.

Tekla Strom Ylvisaker Scholarship: Three scholarships awarded annually to nursing students demonstrating academic promise. One scholarship is awarded to a sophomore, one to a junior and one to a senior. Recipients are selected by the faculty of the School of Nursing.

United Auto Workers Region 1B Golf Classic Scholarship: One scholarship of \$1,000 is awarded 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. Nominations for this award are sought from Oakland University faculty. A second scholarship of \$2,000 is awarded to an eligible student who is the son or daughter of a UAW member or to a UAW member meeting the same criteria. Applications for this scholarship are available in February from the Financial Aid Office. Recipients are selected by the UAW Golf Classic Scholarship Committee.

Upperclass Scholarship for Achievement: 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. Applications are available in February from the Financial Aid Office.

William Morris Scholarship: Awarded to upperclass undergraduate students in recognition of academic excellence. Scholarships are in the amount of \$1,000 and are awarded for one year. Recipients are selected by the William Morris Scholarship Committee.

Women of Oakland University Critical Difference Scholarship: Awarded annually to a single head of household who has had his/her education interrupted for at least one year. Applicants must have earned at least 16 credits at the university level with a cumulative GPA of at least 2.00. The scholarship is for \$500 and applications are available from the Financial Aid Office beginning in January.

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
- 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

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 and Placement Testing

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-term courses. Before orientation, students are asked to attend a placement testing session (see Placement Testing).

Orientations are also held for special groups such as the parents of new freshman students.

A non-refundable initial fee of \$60 for freshmen and \$35 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.

Placement testing

The Office of Orientation offers placement tests which 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 Office of Orientation 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 Office of Orientation, 121 North Foundation Hall (370-3226).

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 residence halls 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. Student organization activities include leadership workshops, retreats, social events, skill development programs and academically related functions. Students who cannot locate a club that serves their particular interest are encouraged to form a new group through Campus Information, Programs and Organizations (49 Oakland Center, 370-2020).

Services for commuting students are coordinated through CIPO. CIPO sponsors a variety of programs and services, including typewriters, Macintosh computers, ride pools, lockers, off-campus housing resources and transportation information. In addition, CIPO's service window staff provides postage stamps, tickets for some campus and community events, photo processing, cross-country ski rental and a notary service.

The CIPO programming team provides noontime and evening programs. Consultation is also available to students for the planning and marketing of social, educational and cultural events. CIPO assists in the coordination and planning of major campus events, including Septemberfest, Blood Drive, Winter Carnival, Black Awareness Month and Women's Week.

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

Students may participate in the following musical ensembles: Collegium Musicum, Gospel Choir, Afram Jazz Ensemble, Oakland Chorale, Concert Band, Meadow Brook Estate, University 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.

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.

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 Marriott, 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, students 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 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 their acceptance at Oakland University and the submission of a housing contract, students' reservations 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.

Room and board is not provided between semesters or during official recesses listed in the university calendar.

Placement and career services

The Department of Placement and Career Services (275 Vandenberg Hall, 370-3250) assists students and alumni in identifying career-related full-time, part-time and seasonal (summer, etc.) employment opportunities. An extensive library is maintained for the display and dissemination of both printed and videotaped employer information, plus career guidance materials, job search information and career publications and periodicals.

Also included in the department library are the application materials for such tests as the Graduate Record Examinations (GRE), Law School Admission Test (LSAT), Medical College Admission Test (MCAT) and Graduate Management Admission Test (GMAT).

Placement and Career Services is comprised of Placement, Cooperative Education and the Oakland University Student Internship Program. The latter two components provide opportunities for students to gain professional-level work experience prior to graduation.

Placement

The Placement Office (275 Vandenberg Hall, 370-3250) provides direct access to job opportunities through on-campus interviews, job referral activities, posted job notices and a bi-weekly job vacancy bulletin. Individual placement counseling and career information are available to both students and alumni, including walk-in counseling during designated hours.

Placement also offers a variety of job fairs and career information/networking programs. Special seminars assist students in developing job search skills. In addition, information is publicized about internship/fellowship opportunities generated outside the university.

Cooperative education

Cooperative education (151 Vandenberg Hall, 370-3253) 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 to 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. In alternating co-op, students work full time for a four-month period (fall or winter semester or spring and summer sessions) and then return to the classroom for the next four months while other students take over their job. Students then alternate periods of work and study. In parallel co-op, students work part time (about 20 hours a week) and simultaneously carry 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

Matching the employment needs of Oakland County with the interests of students, the Oakland University Student Internship Program (275 Vandenberg Hall, 370-3213) 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 majors in 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 (134 North Foundation Hall, 370-3266) provides a variety of services to students with special needs or entitlements (foreign students and exchange visitors, students with disabilities and eligible veterans).

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

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

Other Services

Academic Skills Center

The Academic Skills Center in 203 Wilson Hall (370-4215) offers free peer tutoring in writing, mathematics, reading comprehension, study skills, and courses across the curriculum to all students enrolled at Oakland University. Students may request an individual tutoring session, which requires an appointment, or use the walk-in tutoring, which requires no appointment and may be an individual or a group session.

The center is open from 8 a.m. to 5 p.m. Monday through Friday. Evening hours and tutoring schedules are announced at the beginning of each semester.

In addition to tutoring, the center provides self-help materials, computer-aided instruction, and study skills workshops.

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 (370-4100).

The preprimary program is a kindergarten program which offers three options for the full school year: a half-day kindergarten program, an all-day kindergarten program, and a half-day kindergarten for developmentally young students.

The toddler program is for children 18 months to 3 years old; the preschool program serves children from 3 to 5 years old. These programs offer flexible hours which attempt to meet the needs of parents. The curriculum is designed to stimulate the developmental growth of children.

The Early Childhood Center operates weekdays from 7:30 a.m. to 5:30 p.m. Space in all programs is limited. Parents are encouraged to register their children during early registration for university terms, though space may be available during regular registration. The center is not open during the summer session. Parents are assessed an hourly rate that varies for students, faculty and staff. (See the *Schedule of Classes* each term for details.)

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. (370-2341). 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. 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). Information is available on weight control, nutrition, smoking cessation, exercise and many other topics.

Counseling Center

Students with problems concerning themselves, relationships with others, family difficulties or other personal issues, such as those involved with adjusting to college life, may seek help at the university's Counseling Center (Graham Health Center, 370-3465). Though Oakland University faculty and staff can provide referrals, students may contact the center directly. All counseling is strictly confidential.

The Counseling Center 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 center's services).

The center also offers marriage counseling, child therapy, family therapy, psychological testing, substance abuse services, 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.

Department of Special Programs

The Department of Special Programs (201 Wilson Hall, 370-3262) provides academic counseling and support services for students admitted to the university through the Academic Support Program (ASP).

The department administers the Summer Institute, which is a summer residential program of academic support seminars, tutorial assistance, recreational activities, and cultural programs to maximize students' chances for a successful college experience. After completing the Summer Institute, ASP students are provided with a comprehensive network of university services including academic advising, personal and peer counseling, and tutorial assistance in a friendly, supportive atmosphere.

This department is staffed by administrators, professional counselors, peer counselors, and tutors, who work closely with ASP students throughout their years at Oakland University.

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 entered 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 University/School Relations, Upward Bound is located in 264 South Foundation Hall (370-4455).

Office of Graduate Study

Dean: *George Dahlgren*

Office of the Dean: *Sheryl Lynn Clark, 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

Master of Physical Therapy

Master of Public Administration

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

Master of Science in Nursing

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

Graduate certificate programs

Statistical methods

Microcomputer applications in education

ACADEMIC POLICIES AND PROCEDURES

Student Responsibility

Students are expected to learn all general requirements of the university as well as those of the program of their chosen field of study. Students are responsible for meeting all requirements and regulations for the degrees they seek.

Facilities and staffing limitations require that certain professional programs place limits on the number of students admitted to major standing. Where such limits exist, the principal admission criterion is academic performance in course work prerequisite to application for major standing. Additional information concerning application for major standing in programs with enrollment limits is contained in the individual program descriptions elsewhere in this catalog.

Academic Advising

The university provides academic advising for students from professional advisers in the College of Arts and Sciences and each school, as well as from faculty advisers in academic majors. For assistance in understanding program admission requirements and enrollment limitations as well as university and degree requirements, students should consult with professional advisers and/or faculty advisers. While students receive initial advising assistance in orientation, they are encouraged to seek individual assistance as early in their programs as possible, and to see their advisers regularly thereafter. Most advisers see students for individual appointments arranged at their mutual convenience, except during busy early registration periods when only limited assistance can be provided. In some programs, students must file a written program plan. Advisers can help students complete such plans as well as verify that all degree requirements are being met in a timely fashion. Students may locate their advisers by consulting the list of school and departmental advising offices in the Advising Index at the front of the catalog and published in the *Schedule of Classes* each term.

The Department of Academic Services and General Studies (121 North Foundation Hall, 370-3227) provides academic information and assistance to undergraduates who have not yet declared a major, usually freshmen and sophomores. Students can receive help in course selection and declaration of a major, as well as career exploration. The department's Career Resource Center contains many services and resources for freshmen 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. The Department of Academic Services and General Studies also advises students who elect the Bachelor of General Studies program. The program is described in detail elsewhere in this catalog.

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 200 minutes of scheduled instruction plus the estimated time required in outside preparation each week. Most Oakland University courses are 4 credits. A full academic load is 16 to 18 credits per semester. With their adviser's permission, students who have completed 12 or more credits at Oakland University may register for as many as 21 credits if their 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 students' grade point averages. Course numbers 050-099 are for courses specially designed to enrich academic skills. Not more than 16 credits in courses numbered 050-099 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. Prerequisite courses must be completed prior to enrollment in courses for which a prerequisite is listed. Corequisite courses must be taken simultaneously. It is the students' responsibility to complete all prerequisites before registering for a course with such requirements and to register for corequisites as indicated in the catalog. 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 (see below) applies to the repeating of competency examinations.
3. That they pay the appropriate fees as indicated elsewhere in this catalog (see *Course competency by examination fee*) or as published in the *Schedule of Classes*.

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

Adjusting courses (Drop-and-add)

If students decide not to complete a course, the course may be dropped through the ninth week in 14-week courses and the fifth week in seven-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*).

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 20th calendar day after the first day of classes (seventh calendar day in spring and summer sessions and for 2-credit, half-semester courses). Deadlines for dropping or adding classes are published in the *Schedule of Classes* each term.

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 to change a grade or, in some cases, to earn additional credit. For the purpose of changing a grade, students may repeat a course up to two times (total of three attempts). At the time of registration for a course taken previously, students must file a Repeat Course Form. Filing this form is the students' responsibility and will ensure that proper adjustments to grade point average and cumulative degree credits are made. Students who repeat a course should make every effort to complete the course successfully, since the last numerical grade assigned in the course (either a passing grade or a no-credit grade) will be used in computing the grade point average and total credits awarded. Detailed information on when forms should be filed and how academic records change when courses are repeated appears in each term's *Schedule of Classes*.

Certain courses in which the material covered varies each semester may be repeated for additional credit. Such courses are so designated in their individual descriptions elsewhere in the catalog. When students are earning additional credit, the Repeat Course Form should not be filed.

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 from another.

An academic unit may require that students changing majors 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 students 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. Forms for planning and approval of a minor or concentration are available from the Department of Academic Services and General Studies (121 North Foundation Hall). If the academic unit establishes no such requirement, students are still entitled to negotiate a minor or concentration in writing with the program coordinator. Written plans are 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 enrollment at Oakland University. Changes to an approved plan require prior written 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 new major program in any catalog for which they are eligible.

Students 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 (see *Petition of exception*, below).

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.

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: Students must successfully complete at least 32 credits at Oakland University. They 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: Students 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: Students must have successfully completed at least 32 credits in courses at the 300 level or above. Students transferring credits to Oakland University should consult the *Transfer student information* section.
4. Procedural requirement: 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 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 Academic Records Office, 102 O'Dowd Hall (370-3452).
5. Specific requirements: Students must fulfill all specific undergraduate degree requirements appropriate to their chosen majors 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. Minors and concentrations are optional, although some programs require written approval for minors and concentrations. Forms for planning and approval of a minor or concentration are available from the Department of Academic Services and General Studies (121 North Foundation Hall, 370-3226). 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
6. Writing proficiency: Students 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 2.0 or better.
 - b. By transferring two college-level English composition courses (at least 6 credits). Students who have completed such courses with grades of 2.0 or better may submit their transcripts to the registrar for evaluation. Transfer students who have at least 3 credits in one English composition course may register for RHT 101. Those with fewer than 3 credits must take the placement examination.
 - 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. Students may not repeat the proficiency examination.
7. 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. Students transferring credit to the university should consult the *Transfer student information* section. (In the case of LIN 215/CSE 215, a 6-credit course meeting

both language and mathematics, logic and computer science field categories, some students may need to take an additional course to meet the 32-credit general education 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 the college distribution requirements section for additional requirements. Students in the School of Engineering and Computer Science should see that section for specific 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 1990-91 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. Students may meet this requirement *either* by completing any of the courses listed below *or* by completing a 4-credit foreign language course numbered 115 or higher (or its equivalent).

✓ 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
LIN 215/ CSE 215	Natural and Artificial Languages*
RUS 114	Introduction to Russian
SPN 114	Introduction to Spanish

*In the case of LIN 215/CSE 215, a 6-credit course meeting both language and mathematics, logic and computer science field categories, some students may need to take an additional course to meet the 32-credit general education requirement.

- ✓ 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 300	Culture, Society and Technology
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.

CSE 125	Introduction to Computer Use
CSE 130	Introduction to Computer Programming
LIN 215/ CSE 215	Natural and Artificial Languages*
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

*In the case of LIN 215/CSE 215, a 6-credit course meeting both language and mathematics, logic and computer science field categories, some students may need to take an additional course to meet the 32-credit general education requirement.

- 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 144 (or 164)	General Chemistry
CHM 300	Chemistry, Society and Health
ENV 308	Introduction to Environmental Studies
HS 201	Health in Personal and Occupational Environments — Ideas, Concepts, Issues and Applications
PHY 101 (or 151)	General Physics I
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

Additional undergraduate degrees and majors

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

For students who have not yet received any baccalaureate degree

In order to pursue two or more Oakland University baccalaureates simultaneously students who have not earned a baccalaureate degree must:

1. Meet all specified requirements for each degree program.
2. Complete at least 32 credits at Oakland University beyond those required for the degree requiring the most credits. Of these, at least 16 credits must be at the 300-level or above.

These degrees must either have separate designations (for example, Bachelor 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).

Students who meet the requirements for more than one major program but who do not meet the above conditions may receive a single degree with more than one major recorded on their transcripts.

For students already holding a baccalaureate degree

Students already holding a baccalaureate who wish to earn an additional baccalaureate from Oakland University must:

1. Receive written approval from the college or school concerned (and, where appropriate, from the department) as part of the admission process to the new program.
2. Complete at least 32 additional credits at Oakland University.
3. Meet all specific requirements for the new degree as stipulated by the college, school or other academic unit in which the student is a candidate.

In the case of students holding a baccalaureate from Oakland University, the new degree must have a separate designation or be awarded by a different academic division, as described above.

Students ineligible to complete a second degree may, however, enroll as post-baccalaureate students and obtain verification from a major department that they have met all requirements for an additional major.

Students already holding a baccalaureate degree may earn teacher certification in elementary education by being admitted to this program at Oakland University with second undergraduate degree status. For a description of the program, see the Department of Curriculum, Instruction and Leadership, School of Education and Human Services.

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. 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.

Transfer Student Information

Transfer admission

Transfer students may enter Oakland University at the beginning of any semester or session and should contact the Admissions Office (205 Wilson Hall, 370-3360) regarding the application deadline date for the term when they wish to enter. Applicants who were admissible to Oakland University from high school and have maintained good academic standing and a minimum of a 2.50 cumulative GPA at their previous college or university may be considered for admission. Applicants who were not admissible based on their previous high school record must complete a minimum of 26 semester hours of transferable credit with a minimum of a 2.50 cumulative GPA before they may be considered for admission.

To be considered for admission, students should submit an application and admission fee, and should submit to Oakland University official transcripts of all previous college-level work.

Students considering transferring to Oakland University may arrange to meet with an academic adviser who will assist them in course selection and in planning to meet program requirements by calling the Department of Academic Services (370-3227).

Transfer practices

When students enter Oakland University, all course work previously completed at regionally accredited post-secondary institutions with a C or equivalent grade is evaluated. Transferred courses may be used to satisfy credit and major requirements. Courses necessary to complete degree requirements are offered by the university, and it is anticipated that transfer students who have been admitted will complete program requirements at Oakland University. Credits are granted to courses taken at other regionally accredited post-secondary institutions in accordance with the transfer policies of this university, and in accordance with the principles described below. Transfer credit will not be granted for course work completed at another institution during any period when the student was suspended from Oakland University for academic misconduct.

Transfer practices for community college students

Oakland University's baccalaureate programs are designed to accommodate students from many community colleges. The university has prepared course equivalency guides for most local community colleges which indicate courses fulfilling specific Oakland University requirements. 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.

Transfer practices for students from four-year institutions

Oakland University also accepts students from four-year institutions. Transfer credits are accepted in accordance with the transfer policies of this university and in accordance with the principles described below. Some exceptions to this policy include certain physical education courses and religion courses offered by religiously affiliated post-secondary institutions.

Transfer credit evaluation

Preliminary evaluations of transfer credits are available at orientation. Official evaluations are completed during the first semester of attendance. If students have questions concerning courses at other institutions that may meet Oakland University's general education requirements, they should consult their academic adviser or the Academic Records Office (102 O'Dowd Hall, 370-3452).

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.

Once transfer credits have been granted at Oakland University, a subsequent change of program or major may result in a change in the number of transfer credits accepted.

Transfer principles

Limit of 62 credits from community colleges

Once undergraduate students have successfully completed 62 semester hours at any accredited institution(s), including Oakland University, no additional credits may be transferred from a two-year school to the university.

Upon a student's initial entry to the university (or upon readmission after a lapse of six years or more), additional courses taken at a two-year institution may be accepted to satisfy requirements even though no additional degree credits are granted beyond the specified 62-credit limit. In all other cases, however, no additional courses or credits may be transferred from any two-year institution to satisfy any degree requirement. (This includes satisfying a prerequisite for a required course.)

Principles concerning the MACRAO agreement

Oakland University participates in the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) Articulation Agreement. Transfer students from participating Michigan public community colleges whose transcripts bear the "MACRAO Agreement Satisfied" stamp are considered to have met the university's general education requirements with 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 make the best use of the MACRAO agreement.

General education requirements for transfer students

Transfer students may fulfill the general education 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-semester-hour transfer course may serve as the required course in a particular field category, but students 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 at Oakland University before fall 1987.

Arts and sciences distribution requirements for transfer students

Transfer students pursuing any major in the College of Arts and Sciences should refer to the Policies and Procedures section in the college portion of the catalog for distribution requirements which must be met in addition to general education requirements.

College-level examination program (CLEP) credits

Transfer students who wish to apply CLEP credits towards degree work at Oakland University should consult the *College-level Examination Program (CLEP)* section of the catalog.

Grading System

1. The basic undergraduate grading system at Oakland University is a 32-point system of numerical grades, with passing grades ranging from 1.0 through 4.0, by tenths, and a no-credit grade of 0.0. Non-numerical grades are W, I, P, S, U, R and Z. All courses are graded numerically unless otherwise noted.
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 by student request and instructor consent and 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 completion of 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 0.0. A student who wishes to receive an Incomplete (I) grade in a course must present a Student Request for Incomplete 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 term'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 0.0.
 - d. The S (Satisfactory) grade implies a grade of 2.0 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 2.0. 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 apply, the course is considered to have been successfully completed when the instructor assigns a numerical grade from 1.0 to 4.0. The University Senate has approved publication of the following conversion for some external purposes:
- 3.6-4.0 — A
 - 3.0-3.5 — B
 - 2.0-2.9 — C
 - 1.0-1.9 — D
 - 0.0 — no credit
5. All grades appear on student transcripts. However, only numerical grades are used to determine the grade point average, which is computed to two decimal places.

S/U grading option

Undergraduates who have 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

- applicable 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 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 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 records

Academic records are maintained in the Academic Records Office, 102 O'Dowd Hall (370-3452). 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 Academic 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).

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.

Oakland University complies with the Family Educational Rights and Privacy Act as indicated in the *Schedule of Classes*, and in the undergraduate and graduate catalogs.

A full statement of students' rights is available in the Office of the Dean of Students (144 Oakland Center, 370-3352). The director of CIPO 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 (Director of CIPO, 49 Oakland Center, Oakland University, Rochester, Michigan 48309-4401, 370-2020) and/or filed with the U.S. Department of Education.

Other Academic Policies

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. Depending on the nature of the discipline, this instruction focuses on one or more of the three dimensions below:

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.

Curricula introduce students to the general attitudes toward ethical issues prevailing within disciplines and, where applicable, to the kinds of ethical decisions graduates are likely to face in the professions they are preparing to enter.

Honors

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 average: 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 conduct policy

All members of the academic community at Oakland University are expected to practice and uphold standards of academic integrity and honesty. Academic integrity means representing oneself and one's work honestly. Misrepresentation is cheating since it means students are claiming credit for ideas or work not actually theirs and are thereby seeking a grade that is not actually earned. Following are some examples of academic dishonesty:

1. Cheating on examinations. This includes using materials such as books and/or notes when not authorized by the instructor, copying from someone else's paper, helping someone else copy work, substituting another's work as one's own, theft of exam copies, or other forms of misconduct on exams.
2. Plagiarizing the work of others. Plagiarism is using someone else's work or ideas without giving that person credit; by doing this students are, in effect, claiming credit for someone else's thinking. Whether students have read or heard the information used, they 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 of information and produce it in the student's own words). Both direct quotations and paraphrases must be documented. Even if students rephrase, condense or select from another person's work, the ideas are still the other person's, and failure to give credit constitutes misrepresentation of the student's actual work and plagiarism of another's ideas. 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, including modifying computer files created by others and representing that work as one's own.

Unless they specifically indicate otherwise, instructors expect individual, unaided work on homework assignments, exams, lab reports and computer exercises, and documentation of sources when used. If instructors assign a special project other than or in addition to exams, such as a research paper, or original essay or a book review, they intend that work to be completed for that course only. Students must not submit work completed for a course taken in the past or for a concurrent course unless they have explicit permission to do so.

Instructors are expected to maintain the following standards in the context of academic conduct:

1. To inform and instruct students about the procedures and standards of research and documentation required to complete work in a particular course or in the context of a particular discipline.
2. To take practical steps to prevent and detect cheating.
3. To report suspected academic misconduct to the Dean of Students, 144 Oakland Center, for consideration by the Academic Conduct Committee of the University Senate.
4. To present evidence of plagiarism, cheating on exams or lab reports, falsification of records, or other forms of academic conduct before the Academic Conduct Committee.

Students are expected to maintain the following standards in the context of academic conduct:

1. To be aware of and practice the standards of honest scholarship.
2. To follow faculty instructions regarding exams and assignments to avoid inadvertent misrepresentation of work.
3. To be certain that special rules regarding documentation of term papers, examination procedures, use of computer-based information and programs, etc., are clearly understood.
4. To avoid the appearance of cheating.

If students believe that practices by the instructor are conducive to cheating, they may convey this message to the instructor, to the chairperson of the department, or to any member of the student/faculty Academic Conduct Committee (either directly or through the Office of the Dean of Students).

If academic misconduct is determined by the Academic Conduct Committee, the committee assesses penalties ranging from academic disciplinary reprimand, to academic probation, to suspension or expulsion (dismissal) from the university. All conduct records are maintained in the Office of the Dean of Students.

Academic Probation and Dismissal

General information

To stay in good academic standing, students must not allow their cumulative grade point averages (GPA) to drop below 2.00. Some schools and departments establish more selective criteria for satisfactory academic performance within their majors. Students should consult the section of the catalog on their major for specific information.

Undergraduates who make unsatisfactory academic progress toward a degree 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 and must do so with a reasonable degree of academic proficiency. Students on probation who fail to meet the minimal standard of progress established by the University Senate will be dismissed from the university.

Undergraduates who are dismissed for unsatisfactory academic progress do not retain the privileges of students in good standing. If dismissed students wish to be readmitted to Oakland University after the compulsory separation period prescribed by the Academic Standing and Honors Committee, they must apply for readmission through the Academic Standing, Readmissions and Withdrawals Office in 154 North Foundation Hall. (If, in the dismissal notice,

a student has been informed that readmission will not be considered, the student may not utilize this procedure.)

Questions on Oakland University's probation and dismissal policies should be directed to the Director of Academic Services and General Studies, 121 North Foundation Hall (370-3226).

Principles and practices

The Academic Probation and Dismissal Policy is administered by the Director of Academic Services and General Studies for the University Senate's Academic Standing and Honors Committee. The policy is based on the following principles and practices:

1. The major share of students' educational expenses is provided by the State of Michigan, and it is the responsibility of the university to see that these funds are properly used. If students fail to make satisfactory academic progress toward a degree, dismissal action must be taken by the Academic Standing and Honors Committee.
2. Students are encouraged to make responsible decisions concerning their educational progress. Students who are apparently not benefiting sufficiently from the educational opportunities available at the university are advised to consider other alternatives.
3. Some students new to the university (including transfer students) need a period of adjustment; therefore, no students will be dismissed at the end of their first term at the university. Furthermore, students will not be dismissed without having been placed on probation in the previously enrolled term.
4. Students must have a 2.00 GPA upon graduation. Students with fewer than 80 credits toward graduation and a GPA 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 GPA. A chart indicating the required minimum GPA for the number of credits accumulated at Oakland University (including transfer credits) is available from the Academic Standing, Readmissions and Withdrawals Office, 154 North Foundation Hall.
5. Students are notified on their grade reports of their academic standing: code 1 signifies good standing; code 2 signifies probation; code 3 signifies dismissed; and code 4 indicates dismissal option status. (See *Dismissal option status*, below.)
6. The Academic Standing and Honors Committee attempts to assemble and review pertinent information on each student in academic difficulty. Sometimes, however, there is information that would modify a 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 decisions.
7. Students on probation for two consecutive semesters are not eligible for VA (Veterans') benefits.

Probation and dismissal policy

The following probation and dismissal policy applies to all undergraduate, second degree and post-baccalaureate students.

1. Students with a cumulative GPA of 2.00 or above or without an established cumulative GPA are considered to be in good academic standing. (See 4.)
2. Students in good academic standing will be placed on probation at the end of a semester when their cumulative GPA is below 2.00. They will be allowed to remain at Oakland University on probationary status for at least one semester.
3. At the end of a probationary semester, students will be:
 - a. returned to good academic standing if their cumulative GPA is 2.00 or higher,
 - b. dismissed from the university if their cumulative GPA is below the minimum required GPA based on the total number of Oakland University and transfer credits earned (see the table below), or
 - c. continued on probation if a. and b. do not apply. For example, if at the end of a probationary semester, a student has accumulated 46 credits and has a cumulative GPA of 1.77, that student will be allowed to remain at Oakland University on probation.

Oakland University and Transfer Credit Earned	Minimum Required GPA
0-16	1.49
17-32	1.61
33-48	1.73
49-64	1.85
65-80	1.97
81+	2.00

4. In order to establish a cumulative GPA, a student must receive a numerical grade in at least one course at Oakland University, and in the computation of the cumulative GPA, only those courses at *Oakland University* for which a student has received numerical grades are used. If a course has been repeated, the assigned credits for the course are only counted once in the total number of credits attempted and only the most recent numerical grade received is used. The "honor points" for each course are computed by multiplying the numerical grade received by the number of credits assigned to the course. The cumulative GPA is determined by dividing the sum of the honor points for all courses receiving numerical grades by the total number of credits attempted in courses receiving numerical grades at Oakland University.

The appeal process

Students dismissed after a probationary term may appeal the dismissal if they feel there are valid reasons to do so. To appeal, students must complete an official Academic Standing Appeal Form and submit 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 Standing, Readmissions and Withdrawals Office, 154 North Foundation Hall (370-3264). If the appeal is approved, the student is placed on dismissal option status, and the dismissal is deferred.

Dismissal option status

Dismissal option status is granted to students whose dismissal appeals are approved, or to students who are readmitted following a previous dismissal for unsatisfactory academic progress. Dismissal option status offers students the opportunity to continue their education on a semester-by-semester basis as long as specific requirements are met. All students on dismissal option status must meet a semester GPA minimum of 2.00 in each enrolled term until good academic standing is resumed. (Good academic standing is achieved when the cumulative GPA is 2.00 or above.) Failure to earn a minimum semester GPA of 2.00 results in reactivation of the dismissal, an action which may not be appealed by the student involved. The Dismissal Option Status program is administered by the Academic Skills Center, 203 Wilson Hall (370-4215).

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 Standing, Readmissions and Withdrawal Office, 154 North Foundation Hall.

Readmission

Readmission is required for all students in the following categories:

1. Students whose attendance has been interrupted for a period of six or more years.
2. Students who are dismissed from the university for insufficient academic progress at the end of their previously enrolled term.

All other undergraduates may return and register for classes without seeking formal readmission.

Students applying for readmission must submit an application to the Academic Standing, Readmissions and Withdrawals Office at least 45 days before the first day of regular registration of the semester or session the undergraduate expects to re-enter. (Failure to apply in this time frame will result in not being allowed to register.)

If successfully readmitted students fail to enroll for the semester or session for which their readmission is granted, that readmission is considered void. If the students wish to enroll for the semester or session immediately following the term for which readmission was granted, they may do so by contacting the Academic Standing, Readmissions and Withdrawals Office in writing, and in doing so, can update their readmission application. However, if such students wish to enroll for for a term *later* than one semester or session following the term for which they were readmitted, they must complete another readmission application and submit it within the 45-day time frame.

Withdrawals

Students dropping all registered credits in a term must follow the withdrawal procedure. Undergraduates withdrawing from the university must do so through the Academic Standing, Readmissions and Withdrawals Office, 154 North Foundation Hall. When students withdraw 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 seven-week courses).

Undergraduates who plan to return to the university after a six-year interruption should consult the readmission policy above.

UNIVERSITY LIBRARY

Dean: *Suzanne O. Frankie*

Associate dean: *Indra M. David*

Office of the Dean: *Eric Condic, assistant to the dean; Alexis L. Salisz, manager, technical services; Louann Stewart, circulation manager*

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

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

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

Library Facilities

During 1989, Kresge Library was completely renovated and expanded. These improvements to the library were funded jointly by state appropriation and contributions to the Campaign for Oakland University. This building contains most of the library's collections, including magazines, circulating books, reference works, major library services as well as two computer labs with 70 work stations.

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, musical scores and recordings.

Library Collections

The University Library collection of 1,371,000 items includes 832,000 microforms, 13,600 records and phonotapes, 57,000 periodical volumes and 293,000 circulating and reference books.

Through a \$100,000 fund established by Oakland University students in memory of Matilda R. Wilson, the library has an excellent reference collection. The collection includes atlases, bibliographies, dictionaries, encyclopedias, indexes, yearbooks and other reference materials.

The library receives over 2,300 serial subscriptions. 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 (1650 monographs)

Hicks Women in Literature Collection (1000 volumes written by or about women in the 17th-20th centuries)

James Folklore Collection (770 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)

University Archives Collection (materials regarding the history, programs and activities of Oakland University); accreditation documents are available to be reviewed in the archives.

Faculty Publications Collection (monographs written by Oakland faculty members)

Library Services

Reference

Librarians are available to answer questions and help students to find information and use library materials.

Library instruction

Teaching faculty and library faculty members collaborate on lectures and demonstrations regarding library usage and research techniques.

Literature search services

Using computer technology, the library's on-line search service provides for customized computer-generated bibliographies of citations in a broad range of subjects. Some data bases are available on CD-ROM for direct patron use.

Interlibrary loans

At the request of library patrons, library staff can arrange to borrow, from other libraries, materials that are unavailable on campus.

OTHER PROGRAMS

On-campus Evening Degree Programs

Students may earn undergraduate degrees at night in 16 major areas: accounting, communication arts, economics, English, finance, general management, general studies, history, human resource development, human resource management, industrial health and safety, journalism, management information systems, marketing, psychology 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 resource development, industrial health and safety, journalism, management, political science, psychology and sociology/anthropology are available to evening students.

Academic advising for evening students will be provided on a walk-in basis Monday through Thursday evenings during fall and winter semesters in the Oakland Center. For information regarding this service, contact the Department of Academic Services and General Studies (121 North Foundation Hall, 370-3227).

Evening Extension Program

Oakland University offers undergraduate courses at various sites in southeast Michigan, including: Dondero, Kimball and Shrine High Schools, Royal Oak; Barnum Center for Continuing Education and Groves High School, Birmingham; Carleton Junior High School, Sterling Heights; and Pontiac Art Center, Pontiac.

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.

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.

Continuing Education

Director: Pamela A. Marin

Office of the Director: Gloria Boddy, B.S., Program Director, Legal Assistant and Personal Financial Planning Programs; Nadine E. Jakobowski, B.S., Director of Marketing and Program Director, Health and Medical Programs and Noncredit Computer Courses; Kathryn LeBlanc, M.P.A., Assistant Program Director, Legal Assistant Program, Director, Educational Voyage Series; Katherine Z. Rowley, Program Director, Plastics Technology Program and Business and Industrial Programs; Carmen Thomas, B.S., Program Director, Paraprofessional Accountant, Production and Manufacturing Management and CPA Programs

Continuing Education noncredit programming includes cooperating with business and industry, governmental units, health care and other organizations in conducting university-level programs to meet professionals' needs. Noncredit offerings are revised continually to meet the expressed needs of nontraditional adult learners, as individuals and as members of organized groups.

Primarily evening non-credit diploma programs and courses are conducted in professional, paraprofessional and vocational subjects, providing on-site or on-campus updates for business, industry and governmental units.

Courses and workshops that provide technical update in such areas as statistical process (quality) control, and computer skills are offered as well as courses in areas of current significance, such as personal financial planning and investment. Also offered are diploma programs, as well as a certificate program in personal financial planning.

Continuing Education administers, on site, credit as well as non-credit corporate training and education programs in statistical methods, quality control and plastics technology. All non-credit programs and courses carry the nationally recognized Continuing Education Unit (CEU). CEUs make it possible to document non-credit work and provide a means to build a permanent record of achievement valuable for evidence of increased capabilities and for job advancement. One CEU equals 10 contact hours of participation in an organized continuing education experience.

Professional staff development programs for business and industry

Continuing Education provides on-site professional staff development programs for business and industry for both credit and non-credit. Offered are programs in applied statistics, co-sponsored with the Department of Mathematics of the College of Arts and Sciences, and production and manufacturing management, cosponsored with the School of Business Administration. Clients served by these programs include Ford Motor Company, General Motors Corporation, Chrysler Corporation, Federal Mogul Corporation and Eaton Corporation, automotive suppliers, as well as small to mid-size businesses.

The Executive Roundtable, cosponsored by Continuing Education and the School of Business Administration, provides a unique opportunity for presidents of small to mid-size companies to meet. Executives meet four times annually in the Meadow Brook Hall library to exchange ideas informally, to hear experts and to discuss case studies.

Diploma, certificate and relicensure programs

Diploma programs, a series of courses related to individual objectives, are offered in plastics technology and as preparation for becoming a legal assistant and a paraprofessional accountant.

The Plastics Technology Diploma Program, co-sponsored with the Society of Plastics Engineers, is designed to update those in technically oriented positions and to provide basic knowledge for individuals who wish to enter the plastics industry.

The Legal Assistant Diploma Program, approved by the American Bar Association, is an 18-month evening program that trains paraprofessionals to perform law-related duties for attorneys in a variety of workplaces. Certain legal assistant courses have been approved for one hour of undergraduate credit in political science. Eight credits of these courses can be applied toward a major in political science. For more information on undergraduate credit, see the political science listings or contact the legal assistant program director in Continuing Education.

The Paraprofessional Accountant Diploma Program is a 15-month program developed in conjunction with business firms to impart skills to paraprofessionals who provide vital support for accountants.

A Certificate Program in Personal Financial Planning, offered in conjunction with the School of Business Administration, augments the professional training of individuals with a broad range of business experience (including Certified Public Accountants who are seeking relicensure hours). The program is designed for individuals who are now or might become involved in advising clients about financial planning, to prepare them to sit for the CFP (Certified Financial Planner) exam.

Qualifying hours for CPA relicensing are periodically offered during special weekend programs in November, May and June.

A new program offered in cooperation with the School of Business Administration, the Production and Manufacturing Management Certificate Program, is designed to improve manufacturing and production systems for the purpose of remaining competitive in today's market.

Renewal of the Humanities

Classic literature and great minds from all disciplines are offered for study in noncredit programs through the new Educational Voyage Series. The series expands the university's mission to members of the community who may not wish to pursue a degree curriculum.

Educational test preparation workshops

Test preparation workshops for the Scholastic Aptitude Test (SAT), American College Test (ACT), Graduate Record Exam (GRE), Graduate Management Admissions Test (GMAT), Law School Admissions Test (LSAT), and Pre-Professional Skills Test (PPST) are offered year-round. The SAT and ACT workshops are designed for college-bound high school students or individuals who decide to enter a college program after an interruption of the traditional high-school-to-college progression. The GRE and GMAT workshops are designed for individuals seeking admission to a post-baccalaureate degree program; the LSAT, for those applying for entry into law school; and the PPST, for those seeking teacher certification at Oakland University.

Conferences

Conferences on topical subjects are offered on a limited basis. Included among the offerings are: the Writer's Conference, which has been conducted each fall for more than 25 years; the Quality and Productivity Improvement Conference, co-sponsored by Continuing Education with automotive industry manufacturers and suppliers; the Prevention of Coronary Heart Disease Symposium, co-sponsored by Continuing Education and the Meadow Brook Health Enhancement Institute.

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 University, Grand Valley State University, Hillsdale College, Lake Superior State University, Michigan Technological University, Northwood Institute, Saginaw Valley State University 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 100 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 and weight training. 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.

COLLEGE OF ARTS AND SCIENCES

207 VARNER HALL

(313) 370-2140

Dean: John K. Urice

Office of the Dean: David J. Downing, *associate dean*; Isaac Eliezer, *associate dean*; Brian F. Murphy, *director of the Honors College*; Thomas F. Kirchner, *administrator for college services*; Rosemary Robinson, *advising coordinator*; Janice Elvekrog, *administrative assistant*.

Role and Mission of the College

The primary mission of the College of Arts and Sciences is to provide students with a liberal education. A liberal education broadens awareness of the major areas of human knowledge, significantly deepens knowledge in one or more such areas, and lays the foundation for a lifetime of learning by enlarging those powers of mind and spirit needed not only for professional success but also for the enrichment of personal life.

Teaching is a central mission of the college and a major responsibility of its faculty. The college develops and provides graduate and undergraduate courses and programs, including a program of general education, which form the core of the university's curriculum. Across the range of its offerings, the college commits itself to excellence in the preparation of majors, in interdisciplinary studies, in general education and in graduate studies. It is the college's responsibility to educate people to become rational and morally sensitive human beings and citizens and, equally important, to acquire the skills and information that will be required of them in the various professions.

The college 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 Education and Human Services, it offers instruction leading to the Master of Arts in Teaching degree.

Admission

Departmental rather than college-wide regulations govern admission to the college's majors. Students should maintain close contact with faculty advisers in the department in which they wish to major and with the college advising office.

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.
2. Complete the requirements for a major offered by the College of Arts and Sciences with a cumulative grade point average of at least 2.00.
3. Complete at least 32 of these credits at Oakland University, of which at least 16 credits must be in the student's elected major.
4. Complete at least 32 credits in courses at the 300 level or above.

5. Complete the last 8 credits (to complete baccalaureate requirements) at Oakland University.
6. 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).
7. Obtain certification of writing proficiency (see *Undergraduate degree requirements*).
8. Complete the university's general education requirement (see *Undergraduate degree requirements*).
9. Complete the college distribution requirements described below.

College distribution requirements

In addition to satisfying the university-wide general education requirements, students seeking the Bachelor of Arts degree must complete 16 additional credits distributed in four of the six categories listed below. Students seeking the Bachelor of Science degree need complete only 12 additional credits in three of the six areas listed below. These credit requirements may be lower for students with sufficient preparation in a foreign language (see Note 1 below). An approved interdisciplinary course may be used in lieu of one of the six distribution categories (see Note 2 below).

Candidates for the Bachelor of Music degree must complete 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. Unless otherwise noted, courses in the major may be applied toward these requirements; restrictions apply only to students majoring in social science disciplines (see Note 3 below) and transfer students (see *Special provisions for transfer students*, below).

Distribution categories

1. Foreign language: 4 credits in a modern foreign language numbered 115 or higher.
2. Arts and literature: An additional 4 credits from either the university general education field category list in arts and literature; literature courses at the 300 level or higher in a modern foreign language; or art or art history, cinema, dance, English, music or theatre courses at the 300 level or higher, except for writing courses (ENG 310, 380, 382 and 410).
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, 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, or courses at the 300 level or higher in any of these disciplines or linguistics courses ALS 334, 335, 373, 374, 375 or 376. (See Note 3 below.)
5. Mathematics: An additional 4 credits in mathematical sciences courses (MTH, APM, STA, MOR but not MTE) numbered 121 or higher.
6. Science: An additional 4 credits in biology, chemistry, environmental health or physics.

Notes

1. Four credits in a modern language course numbered 115 or higher may be used to satisfy two requirements at once: the general education requirement in language and the foreign language distribution category.
2. An approved interdisciplinary course may be used in lieu of one of the six distribution categories. Interdisciplinary courses which have been approved by the College of Arts and Sciences for this purpose will be listed in each semester's *Schedule of Classes*; they currently include AMS 300, ENV 311 and WS 200. Additional information may also be obtained from the College of Arts and Sciences Advising Office.

3. Majors in one of the social science disciplines who want to use social science courses to satisfy part of the distribution requirement must take these courses in a social science discipline different from the major.

Majors

Students must fulfill all requirements of their elected majors as described in the departmental entries. A cumulative grade point average of 2.00 in the major is required for graduation.

Majors offered by the College of Arts and Sciences are listed below. There are no college-wide regulations governing admission to major standing or retention in the majors. Each department controls its own procedures in these areas. Therefore, students are urged to maintain close contact with faculty advisers in the department in which they wish to major and with the College of Arts and Sciences Advising Office. The majors are:

Anthropology (B.A.)	Environmental Health (B.S.)	Music (B.A. or B.Mus.)
Applied Statistics (B.S.)	History (B.A.)	Philosophy (B.A.)
Art History (B.A.)	International Studies (B.A.)	Physics (B.A. or B.S.)
Biology (B.A. or B.S.)	Journalism (B.A.)	Political Science (B.A.)
Biochemistry (B.S.)	Linguistics (B.A.)	Psychology (B.A.)
Chemistry (B.A. or B.S.)	Mathematics (B.A. or B.S.)	Public Administration (B.S.)
Communication Arts (B.A.)	Modern Languages and	Sociology (B.A.)
Economics (B.A.)	Literatures (B.A.)	
English (B.A.)		

Other College Programs

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 catalog chosen for the student's major will also be used to determine degree requirements for any minor the student may be pursuing unless a written plan of study has been approved by the department or school offering that program. Forms for planning and approval of minors are available from departments or the Academic Services office (121 North Foundation Hall). If a department or program does not require an approved plan of study, a student is still entitled to negotiate in writing a minor or concentration with the program coordinator. The college offers the following minors*: advertising (see *Rhetoric, Communications and Journalism*), anthropology, art history, biology, chemistry, communication arts (see *Rhetoric, Communications and Journalism*), dance, economics, English, history, international studies, journalism (see *Rhetoric, Communications and Journalism*), linguistics, mathematics, modern languages, music, philosophy, physics, political science, psychology, science (see page 201), sociology, studio art (see *Art and Art History*) and theatre.

Minors from other academic units are also accepted by the college for students graduating with a major from the College of Arts and Sciences. Requirements for these minors are described under departmental entries as indicated. These minors* include: accounting (see page 215), computer science (see page 190), finance (see page 215), human resources development (see page 241), international management (see page 215), management (see page 215) and quantitative methods (see page 216).

*These minors do not count toward an elementary or a secondary teaching credential. For further information on minors without page references, see the departmental chapter of the same name.

Biochemistry program

This interdepartmental program offers a Bachelor of Science degree with a major in biochemistry. Students may apply for admission to the biochemistry program after completing

16 credits of the core program with a grade point average of 2.50 or better. For details about requirements for the Bachelor of Science degree with a major in biochemistry, see page 186.

Environmental health program

Designed to integrate applied scientific specialties within the broad field of environmental health, the environmental health curricula prepare students for a variety of professional opportunities in government and the private sector, and for graduate study in such fields as toxic substance management, public health, toxicology, industrial hygiene and environmental planning. For details about requirements for the Bachelor of Science degree with a major in environmental health, see page 183.

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. No specific grade point average is required for completion of any given concentration. As a general rule, no more than 8 credits of course work used to satisfy one major, minor or concentration may be applied toward another, 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 catalog chosen for the student's major will also be used to determine degree requirements for any concentration the student may be pursuing. Students should file the university's Minor Authorization Form with the department or school offering that program.

The college offers the following interdepartmental programs and concentrations described under "Other Academic Options," on pages 189-201 of this catalog: American studies, archaeology, energy studies, environmental studies, film aesthetics and history, folklore and popular culture, gerontology, Michigan studies, prelaw studies, preprofessional studies in medicine, dentistry and optometry, religious studies, social justice and corrections, social services, urban studies and women's studies.

Secondary teaching minors

Secondary teaching minors are not required by the College of Arts and Sciences for baccalaureate programs, but are required of 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, chemistry, English, history, mathematics, modern languages, music, physics, science and speech.

Center for International Programs

The center offers majors and minors in international studies; it also sponsors study abroad programs for students and the general public. For information about majors see page 97. For information about other programs, consult with the center director, Carlo Coppola.

Center for the Arts

The Center for the Arts coordinates and presents the university's public performances and presentations in the academic arts—art history, dance, mime, music, and theatre, and cooperates with units in the university and institutions outside the university to offer non-credit educational programs in the arts for young people, such as the Arts-for-Youth Camps, classes in the arts for talented young people and the Meadow Brook Academy Orchestra. For additional information, see page 205 or contact the center director.

Academic Advising

In order to help students develop and achieve their academic goals, the college offers an advising program staffed by faculty advisers in each academic department and by professional advisers in the Arts and Sciences Advising Office, located in 219 Varner Hall (370-4567). All students are expected to meet with an adviser on a regular basis. Students who need assistance with course selection, registration, major and career choice or have questions about college and degree requirements, academic standing, transfer credit and petitions of exception should meet with an adviser in the Arts and Sciences Advising Office.

Undecided students interested in programs offered by the college should meet with an adviser in the Arts and Sciences Advising Office each semester until they declare a major; once a major in the college has been declared, students should meet initially with a departmental adviser to establish a program plan and periodically thereafter to ensure that they are completing major requirements. Frequent adviser contact will help ensure that the student has current academic information and is making good progress toward a degree.

Seniors are urged to meet with an adviser for a graduation check prior to final registration. It is the responsibility of each student to know and meet graduation requirements and to make every effort to obtain adequate academic advising.

Policies and Procedures

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 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.

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. For distribution purposes, cross-listed courses count under 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 *Transfer student information*).

Departmental honors

Requirements for awarding departmental honors to students who demonstrate outstanding academic achievement are determined by each department. Please consult the chief academic adviser in each department for the specific details of these requirements.

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. Forms for students requesting an additional major are available in the advising office and should be completed by students wishing to graduate with more than one major.

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 *Additional undergraduate degrees and majors*.

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.

Additional Information

Field experience program

The College of Arts and Sciences offers, by means of departmental courses numbered 399, opportunities for students to earn credit for academic work concurrent with field work experience. Emphasis is on the academic aspect of this program that 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 decisions 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 coordinator of cooperative education in the Department of Placement and Career Services.

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*).

DEPARTMENT OF ART AND ART HISTORY

307 WILSON HALL

(313) 370-3375

Chairperson: *Charlotte V. Stokes*

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)*

Lecturers: *Andrea Eis (Studio Art), Monica Molinaro (Studio Art), Paul Webster (Studio Art)*

Chief adviser: *Susan E. Wood*

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, international 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 for 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. Minors in art history and studio art are also available.

Requirements for the liberal arts major in art history

A minimum of 40 credits in art history courses, distributed as follows:

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 310, 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 AH 490 or AH 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 minimum of 20 credits in art history courses, to be distributed as follows:

1. AH 100 and 101
2. A total of 8 credits, 4 each from any two of the following categories:
Ancient/medieval: AH 310, 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 minimum 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. Three courses at the 200, 300 and 400 level, at least one of which must be at the 300 or 400 level.

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 through the Medieval period. 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 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 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.

Prerequisite: 4 credits in art history or IS 210 or permission of instructor.

AH 301 Japanese Art (4)

The development of architecture, sculpture and painting in Japan from A.D. 400 to A.D. 1900.

Prerequisite: 4 credits in art history or IS 220 or permission of instructor.

AH 302 Indian Art (4)

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

Prerequisite: 4 credits in art history or IS 240 or permission of instructor.

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.

Prerequisite: 4 credits in art history or IS 230 or permission of instructor.

AH 307 Pre-Columbian Art (4)

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

Prerequisite: 4 credits in art history or IS 250 or permission of instructor.

AH 308 North American Indian Art (4)

Native American art of the United States and Canada.

Prerequisite: 4 credits in art history or permission of the instructor.

AH 310 Art of the Ancient Near East (4)

The architecture, sculpture and painting of Egypt, Mesopotamia, Iran, Asia Minor and Syria from the Neolithic to the Roman period.

Prerequisite: AH 100.

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. 1150 through the period of the Crusades and medieval urbanism, ca. 1400.

Prerequisite: AH 100.

AH 330 Renaissance Art in Italy (4)

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

Prerequisite: AH 101.

AH 340 Baroque Art (4)

The development of architecture, sculpture and painting in western Europe from 1600 to 1700.

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 100 or AH 101.

AH 348 English Art (4)

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

Prerequisite: AH 101.

AH 350 American Art (4)

The development of architecture, sculpture and painting in the United States from the early colonial period to World War I.

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 351.

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 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 1900.

Prerequisite: AH 101.

AH 365 Twentieth-Century Art (4)

The development of sculpture, painting and related media in the western world from 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 1830.

Prerequisite: AH 101 or SA 266 or permission of instructor.

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.).

Prerequisite: AH 101 or CIN 150.

AH 370 The Graphic Arts (4)

The graphic arts in Europe and America from 1450 to 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 1500. Students will read selections from the major contributors to these disciplines.

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

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

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

Directed individual research for advanced art history majors.

Prerequisite: 16 credits of art history, of which at least 8 must be at the 300-400 level and 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 266 Photography (4)

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 200 or SA 209 or permission of instructor.

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 209 or permission of instructor.

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 214 or permission of instructor.

SA 366 Intermediate Photography (4)

Continuation of SA 266.

Prerequisite: SA 266 or permission of instructor.

SA 391 Projects in Studio Art (2)

Specific projects in studio art for which no regular offerings exist. May be repeated in a subsequent semester for a total of 4 credits.

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

375 DODGE HALL

(313) 370-3550

Chairperson: *Egbert W. Henry***Professor emeritus:** *William C. Forbes***Professors:** *Francis M. Butterworth, Esther M. Goudsmit, Egbert W. Henry, Charles B. Lindemann, Virinder K. Moudgil, Asish C. Nag, John R. Reddan, Nalin J. Unakar***Associate professors:** *Keith A. Berven, G. Rasul Chaudhry, John D. Cowlshaw, George J. Gamboa, Sheldon R. Gordon, R. Douglas Hunter, Paul A. Ketchum***Assistant professors:** *Thaddeus A. Grudzien, Feona M. Hansen-Smith, Satish K. Walia, Jon A. Yates***Adjunct professors:** *Tom Madhavan, M. Dave Poulak, James R. Wells, Robert M. West***Adjunct assistant professors:** *Naomi Eliezer, Gerard Joswiak***Consulting professor of biomedical and health sciences:** *Julius Rutzky***Chief adviser:** *John D. Cowlshaw*

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.

High school students intending to major in biological sciences should refer to the *Admissions* section of the catalog for specific preparation requirements.

Admission to major standing

To be eligible for a degree 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 194 of this catalog).

A minimum of 40 credits in biology (BIO 190 and above) is 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)
5. Ecology (BIO 301 or 387)

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. Note: BIO 307 does not satisfy the organismic course requirement.) and at least one three- or four-credit 400-level lecture course (BIO 405, 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) 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.

A minimum of 40 credits in biology (BIO 190 and above) is 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, 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 STA 322, 323 or 324, or 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, 365, 366, 421 and 422. 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 191 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 184).

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 57.

Requirements for the secondary teaching minor in biology

A minimum of 20 credits in biology (from BIO 190 and above) is 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, and 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 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 ecological and taxonomic study of the fauna of southeastern Michigan. 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)

Current concepts and research techniques in biochemistry. Topics include: structures and function of biomolecules, cellular organization, generation of metabolic energy and intermediates, and molecular genetics.

Prerequisite: BIO 200 and CHM 145; Highly recommended CHM 203.

BIO 326 Introductory Biochemistry Laboratory (1)

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

Prerequisite: At least 2 BIO lab courses, BIO 325 or instructor permission; 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.

Prerequisite: BIO 190, 200. BIO 325 recommended.

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 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 207 or BIO 321. Offered winter semester alternate years.

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.

Corequisite: BIO 421.

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, MTH 122 or 154, and PHY 101 or 151.

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 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

357 HANNAH HALL

(313) 370-2320

Chairperson: *Paul Tomboulia*

Professor emeritus: *Lewis N. Pino*

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 Tomboulia*

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

Assistant professors: *Arthur W. Bull, Mark Severson*

Adjunct associate professor: *David Becker*

Lecturers: *William Bradford, Gerald G. Compton, Mark Richardson, William Robert, Stephen Tackitt, Douglas Thiel*

Chief adviser: *Robert L. Stern*

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 in chemistry and a Doctor of Philosophy degree in biomedical sciences with specialization in health and environmental chemistry.

High school students intending to major in chemistry should refer to the *Admissions* section of the catalog for specific preparation requirements.

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 requirements 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.

A minimum of 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.

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").

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 (excluding CHM 490). Also required are three or more additional approved credits of BCM, BIO, APM, MTH, STA or PHY in a course which will ordinarily be numbered higher than 250, with the exception of STA 226. Excluded from the list of approved courses are BIO 300 and STA 225.

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 184). 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 or the Bachelor of General Studies program 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. An approved concentration/minor authorization form must be filed three semesters prior to graduation.

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

Coordinators: *Mark Severson (Chemistry) and Ching L. Ko (Engineering)*

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* (a minimum of 128 credits) 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 the *Policies on Electives* section in the School of Engineering and Computer Science portion of the catalog.

*Students within this program are not required to complete the college distribution requirements.

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, CHM 462-463, and CHM 466 or 477.

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, students must take the Chemistry Placement Test before registering for any of these courses. Placement is based on the test results, 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 300 Chemistry, Society and Health (4)

Introduction for non-science majors to the world of chemistry. Applications of chemistry and biochemistry to current issues including: food, metabolism and nutrition; drugs, pharmaceuticals and disease; air and water quality; global climate change; and energy alternatives. Satisfies the university general education requirement in natural science and technology.

Prerequisite: Sophomore standing.

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 104 and 144, 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 140, 201, 241, 300, and 497.

CHM 104 Introduction to Chemical Principles (4)

Study of general chemistry topics, including organic chemistry, selected to prepare students for CHM 201. (Credit will not be allowed for both CHM 104 and CHM 144 or CHM 164.) Satisfies the university general education requirement in natural science and technology.

Prerequisite: Chemistry Placement Test. Corequisite: MTH 011 or placement in MTH 012 or higher.

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. CHM 140 may not be used for major or minor credit in chemistry, biology or physics.

Prerequisite: Chemistry Placement Test; MTH 011 or placement in MTH 012 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 must be taken first. (Credit will not be allowed for both CHM 104 and CHM 144.) CHM 144 satisfies the university general education requirement in natural science and technology.

Prerequisite: Chemistry Placement Test or CHM 140; MTH 012 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 must be taken first. (Credit will not be allowed for both CHM 104 and CHM 164.) CHM 164 may be used in place of CHM 144 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 survey of organic and biological chemistry, emphasizing applications to human physiology. CHM 201 may not be used for major or minor credit in chemistry, biology or physics.

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. CHM 203 must be taken first. (Credit will not be allowed for both CHM 203 and CHM 234, nor will credit be allowed for both CHM 204 and CHM 235.)

Prerequisite: CHM 145.

CHM 209 Organic Chemistry Laboratory (2)

Basic techniques of synthesis, degradation and identification of organic substances. (Credit will not be allowed for both CHM 209 and CHM 237.)

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

CHM 225 Analytical Chemistry (4)

Acid-base, complexation, precipitation, oxidation-reduction and phase-distribution principles, along with fundamentals of spectroscopy, chromatography and statistics, are studied and applied to chemical analysis. Four hours of lecture and eight hours of 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. CHM 234 must be taken first. (Credit will not be allowed for both CHM 203 and CHM 234, nor will credit be allowed for both CHM 204 and CHM 235.)

Prerequisite: CHM 145.

CHM 237-238 Organic Chemistry Laboratory (2 each)

Preparation, separation and identification of organic compounds. CHM 237 must be taken first. (Credit will not be allowed for both CHM 209 and CHM 237.)

Prerequisite: CHM 149. Corequisite: CHM 234-235.

CHM 241 Problem Solving for Physical Chemistry (3)

Study and practice in applications of calculus to physical-chemical problems. CHM 241 may not be used for major or minor credit in chemistry, biology or physics.

Prerequisites: CHM 145 (or 165), MTH 155 and PHY 151.

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 300 Chemistry, Society and Health (4)

See description above under nonmajor courses.

CHM 342 Physical Chemistry I (4)

Applications of thermodynamics to chemical systems and equilibria.

Prerequisites: CHM 145 (or 165), PHY 152, and MTH 155. A grade of at least 2.7 is required in MTH 155 (or else a grade of at least 2.0 in CHM 241).

CHM 343 Physical Chemistry II (4)

Kinetics, introduction to quantum mechanics, statistical mechanics, and molecular spectroscopy.

Prerequisite: CHM 342.

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: 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 Biochemistry I (3)**
First course in a comprehensive biochemistry sequence. Structure and function of proteins, carbohydrates and lipids. Enzyme mechanisms, kinetics and regulation. ATP cycle and bioenergetics. Identical with BCM 453.
Prerequisite: CHM 204 or 235.
- CHM 454 Biochemistry II (3)**
Metabolic pathways and control. Nucleic acid structure, function and processing, including regulation of gene expression. Selected topics in molecular physiology. Identical with BCM 454.
Prerequisite: CHM/BCM 453.
- 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, 6 or 8)

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.
CHM 497 may not be used for major or minor credit in chemistry, biology or physics.

Prerequisite: Permission of instructor.

DEPARTMENT OF ECONOMICS

416 VARNER HALL

(313) 370-3282

Chairperson: *Ronald L. Tracy*

Professors: *Eleftherios N. Botsas, Karl D. Gregory, Oded Israeli, Sid Mittra, Miron Stano*

Associate professors: *Sherman Folland, Augustin K. Fosu, Kevin J. Murphy, Ronald L. Tracy*

Assistant professors: *Addington Coppin, James E. Payne, Jr., Anandi P. Sahu*

Visiting Professor, *V. R. Chetty*

Lecturers: *George Kuljurgis*

Chief adviser: *Ronald L. Tracy*

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 students 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. For economics majors, the Bachelor of Arts degree offers a less quantitative approach to economics than does the Bachelor of Science degree, offered through the School of Business Administration. (See program descriptions under the School of Business Administration.)

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; the college distribution requirements; cognate courses in mathematics, statistics and computers; admission to major standing in economics (see below); 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 011-012	Elementary-Intermediate Algebra (if required by score on the math placement test)	0
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 and ECN 201 or ECN 210	Principles of Macroeconomics Principles of Microeconomics 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 (not including ECN 414); no more than 4 credits may be in ECN 490.

16
48-50

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 honor 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 semester credits in economics courses. Students must take ECN 150 or ECN 210 or both ECN 200 and ECN 201 and any prerequisites for these courses. In addition, students must earn at least 12 additional credits (16 credits if ECN 150 was taken) in economics (ECN) courses in order to fulfill the 18-credit requirement (excluding ECN 414). This minor is open to all students except economics majors.

Course Offerings

A detailed description of the economics courses is provided in the School of Business Administration section of this catalog. 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 342: Economics electives numbered 309 through 342 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. 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	Introduction to Urban and Regional Economics (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 333	History of Economic Thought (4)
ECN 338	Economics of Human Resources (4)
ECN 342	Economic Analysis of Selected Nations (4)
ECN 350	Comparative Economic Systems (4)
ECN 373	International Economics (4)
ECN 378	Economic Analysis of Law (4)
ECN 385	Industrial Organization (4)
ECN 405	Econometrics (4)
ECN 409	Urban Economics and Location Theory (4)
ECN 411	Advanced Methods in 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	Special Topics in Economics (4)
ECN 490	Independent Study (2 or 4)

DEPARTMENT OF ENGLISH

517 WILSON HALL

(313) 370-2250

Chairperson: *Robert T. Eberwein*

Distinguished professor emerita: *Gertrude M. White*

Professors emeriti: *Joseph W. DeMent, Thomas Fitzsimmons*

Professors: *Jane D. Eberwein, Robert T. Eberwein, James F. Hoyle, Donald E. Morse*

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

Assistant professors: *Mary E. Arshagouni, Natalie B. Cole, Brian A. Connery,
Kevin T. Grimm, Susan E. Hawkins, Edward H. Hoepfner, Bruce J. Mann, Harriet E. Margolis*

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

Lecturers: *Eugenie Beall, Laurie E. Grimm, Martha L. Hammel, Marilyn Krainen,
Linda McCloskey, Carole J. Terry, Leslie Vitale*

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, students 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, English students 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.

Listed below are undergraduate programs of study leading to the Bachelor of Arts degree with a major in English, a modified major in English 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 Education and Human Services, the Master of Arts in Teaching in English. Programs and course offerings are described in the *Oakland University Graduate Catalog*.

Requirements for the liberal arts major in English

A minimum of 40 credits in English, including ENG 290 (formerly ENG 140), and five courses (20 credits) at the 300 level or above, including one seminar at the 400 level (other than ENG 498 or ENG 499). Two courses must be in British literary history: either two from the ENG 354, 355, 356, 357 sequence; or one from 354, 355, 356, 357 and one from 311, 315, 316, 369.

Only one course at the 100 level 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.

Departmental honors and scholarships

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 290 (formerly ENG 140). Two courses must be in British literary history: either two from the ENG 354, 355, 356, 357 sequence; or one from 354, 355, 356, 357 and one from 311, 315, 316, 369. 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 290 (formerly 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 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. A maximum of 8 transfer credits will be accepted for the liberal arts minor in English.

Requirements for the secondary teaching minor in English

Required for a minor are 24 credits from offerings in English, including ENG 290 (formerly 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. A maximum of 8 transfer credits will be accepted for the secondary teaching minor in English.

Course Offerings

Courses on the 100 level 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 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 220 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 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 290 Introduction to Literary Study (4)

The foundation course for English majors and minors. Analytical reading of drama, fiction and poetry. Attention given to literary criticism, basic research methods and critical writing. Required of majors and minors in English. Formerly ENG 140.

- 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. *Satisfies 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. *Satisfies the university general education requirement in literature.*
- ENG 307 Modern Drama (4)**
Studies in English, American and Continental drama since Ibsen.
- 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. *Satisfies 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 Contemporary Writing (4)**
Post World War II writing, including traditional and experimental forms within their cultural contexts.
- 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 The Black Experience in Literature (4)**
A study of works portraying the black experience; may include authors from Africa and Latin America as well as representative American 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 380 Advanced Writing (4)**
Emphasis on techniques of persuasion including analysis, argument and the study of rhetorical context.
- 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 or more complementary academic disciplines such as art, history, religion and the social sciences.
- 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 S/U basis.

Prerequisite: Four courses in English and permission of instructor.

DEPARTMENT OF HISTORY

380 O'DOWD HALL

(313) 370-3510

Chairperson: *John Barnard*

Distinguished professor emeritus: *George T. Matthews*

Professors emeritus: *Charles W. Akers, Robert C. Howes, W. Patrick Strauss, S. Bernard Thomas*

Professors: *John Barnard, Mary C. Karasch, Joseph A. Klaitis, Anne H. Tripp, Richard P. Tucker*

Associate professors: *De Witt S. Dykes, Jr., Leonardas V. Gerulaitis, James D. Graham, Roy A. Kotynek, Paul M. Michaud, Lawrence D. Orton, Carl R. Osthaus*

Assistant professors: *Linda Benson, Turk McCleskey, Sean Moran, Whitney Walton*

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 preparation program draws on history in the elementary education major and minor concentrations in history/social science 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 a minimum of 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. There is an appropriate writing component in history courses at all levels.

Departmental honors and scholarships

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 a minimum of 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.

Course Offerings

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.

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 and 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. Identical with WS 224.
- 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 234 Introduction to English History I (4)**
A survey of English history from 55 B.C. to the Glorious Revolution of 1688-1689.
- HST 235 Introduction to English History II (4)**
A survey of English history from 1689 to the present, emphasizing political, social, economic, cultural and legal development.
- 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)**
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 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. Major status or permission of instructor.
- 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 305 History of American Mass Media (4)

The establishment and growth of mass communication in the United States, focusing on the development of print, film, radio and television and their impact on society and popular culture.

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 History of American Foreign Relations 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 339 History of Women: Modern Europe (4)

Women in the family, society and culture of preindustrial Europe; changing economic and social roles for women in the nineteenth century; rise of feminism; women and war, socialism, fascism and the welfare state in the twentieth century. Identical with WS 339.

HST 340 The Middle Class in Modern Europe: 1789 to 1968 (4)

Analyzes the rise of and developments in the European bourgeoisie from the French Revolution to the events of 1968; includes questions of class formation and class relations, political strategies and ideologies, economic growth and change, and social developments regarding men, women and the family.

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 régime* 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 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 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 384 Modern Environmental History (4)

Global depletion of natural resources since 1500 in relation to European empires and modern world economy; the environmental implications of America's global interests; the tension between economic development and damage to major ecosystems.

HST 385 African History to 1945 (4)

Continuity and change in African societies and states from earliest times until World War II; typical themes include the extended family system in African life and problems of transition in African political economies.

HST 386 African History since 1945 (4)

African history since World War II, emphasizing problems of economic development and political stability; special case studies, which focus on selected nations, such as Kenya and Tanzania, provide opportunity for analyzing the historical background of contemporary issues.

HST 387 History of South Africa (4)

A regional introduction to historical trends in the development of ethnic conflicts, economic classes, political ideologies and family relationships in South Africa since 1500, with special emphasis on the development of apartheid.

HST 391 Directed Readings in History (2, 4 or 8)

Independent but directed readings for juniors and seniors interested 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 491 Directed Research in History (4, 8 or 12)

Directed individual research for advanced history majors. Offered each semester.

Prerequisite: Permission of instructor and HST 300.

CENTER FOR INTERNATIONAL PROGRAMS

430 WILSON HALL

(313) 370-2154

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. 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 a minimum 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 Center for International Programs.

Requirements for the liberal arts minor in international studies

The minor in international studies consists of a minimum 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. Kwapoya (*Political Science*)

Faculty: De Witt S. Dykes, Jr. (*History*), James D. Graham (*History*), Karl D. Gregory (*Economics*), James W. Hughes (*School of Education and Human 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, ECN 342, ENG 342, HST 323, HST 365, HST 366, HST 385, HST 386, HST 387, 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 American 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*)

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, ECN 342, HST 370, HST 371, HST 373, HST 374, HST 376, PHL 350, PS 318, 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, ECN 342, HST 270, PHL 350, IS 361-362, IS 365-366, 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 program

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*), 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, ECN 342, 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: 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 342, HST 250, HST 254, HST 353, HST 354, 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 program

Coordinator: Kathryn M. McArdle-Pigott (*Modern Languages and Literatures*)

Faculty: William C. Bryant (*Modern Languages and Literatures*), James W. Dow (*Sociology and Anthropology*), Edward J. Heibel (*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, ECN 342, HST 261, HST 262, HST 363, HST 365, HST 366, HST 367, PS 335, SPN 420, SPN 421, 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 Introduction to China (4)

An interdisciplinary study of the peoples of China and their traditional and modern civilizations. Satisfies the university general education requirement in international studies.

IS 220 Introduction to Japan (4)

An interdisciplinary study of the peoples of Japan and their traditional and modern civilizations. Satisfies the university general education requirement in international studies.

IS 230 Introduction to Africa (4)

An interdisciplinary study of the peoples of Africa and their traditional and modern civilizations. Satisfies the university general education requirement in international studies.

IS 240 Introduction to India (4)

An interdisciplinary study of the peoples of India and their traditional and modern civilizations. Satisfies the university general education requirement in international studies.

IS 250 Introduction to Latin America (4)

An interdisciplinary study of the peoples of Latin America and their traditional and modern civilizations. Satisfies the university general education requirement in international studies.

IS 260 Introduction to Russia and Eastern Europe (4)

An interdisciplinary study of the peoples of Russia and Eastern Europe and their traditional and modern civilizations. Satisfies the university general education requirement in international studies.

IS 270 Introduction to the Middle East (4)

An interdisciplinary study of the peoples of the Middle East and their traditional and modern civilizations. 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)

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 363-64 France Exchange Program (12, 16 or 18)

Course work is taken at the Université d'Orléans in France; includes French language study and regular course offerings at Orleans. French is the language of instruction.

Prerequisite: Permission of program coordinator.

IS 365-366 Japan Program: Shiga (12, 16 or 18)

Course work is taken at the Japan Center for Michigan Universities, Shiga, Japan; includes Japanese language study and additional appropriate courses with English as the language of instruction.

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

305 WILSON HALL

(313) 370-2175

Chairperson: *Peter J. Binkert*

Professors: *Peter J. Binkert (Linguistics, Classics) and William Schwab (Linguistics, English)*

Associate professor: *Daniel H. Fullmer (Linguistics, English)*

Adjunct assistant professor: *Gregory Brown*

Associated faculty:

Professors: *Carlo Coppola (Modern Languages and Literatures, Linguistics), Donald C. Hildum (Rhetoric, Communications and Journalism, Linguistics)*

Associate professor: *Alice S. Horning (Rhetoric, Communications and Journalism, Linguistics)*

Chief adviser: *Daniel H. Fullmer*

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 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*.

Requirements for the liberal arts major in linguistics

To earn a liberal arts major in linguistics, students must complete:

1. A minimum of 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, 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

To earn the minor, students must complete:

1. A minimum of 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. A minimum of 20 credits in CSE, including CSE 125, CSE 220, and three electives (two of which must be chosen from CSE 335, CSE 340, CSE 343, CSE 345 or any 400-level CSE course approved by an adviser). See requirements for the minor in computer science, page 190.
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, 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

A minimum of 20 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 (of which 4 must be 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 PSY.

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: ALS 176 or 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 BIO.

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 BIO.

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: ALS 176 or one course in AN.

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: ALS 176 or one course in AN.

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: ALS 176 or one course in AN.

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: ALS 176 or one course in SOC.

ALS 420 Linguistics and Reading (4)

Linguistic description and analysis of the process of getting meaning from print. The course will review competing linguistic models of the reading process and insights from first and second language acquisition, psycholinguistics, reading disorders and studies in writing.

Prerequisites: ALS 176 and 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: LIN 301.

LINGUISTICS**LIN 207 Semantics (4)**

The study of meaning, which involves the relation among 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 university general education requirement in language.

LIN 215 Natural and Artificial Languages (6)

A study of the similarities and differences among the languages of people, animals and machines. The focus will be the general problem of constructing a robot that understands English. Involves study of the linguistic structures of natural languages. Identical with CSE 215. *Satisfies the university general education requirement in language and in mathematics, logic and computer science.*

Prerequisite: Sophomore standing; high school algebra recommended.

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 a course in a foreign language taken at least at the 114 level.

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/CSE 215 or both ALS 176 and CSE 130 or CSE 132.

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

334 O'DOWD HALL

(313) 370-3430

Chairperson: *Alphonse H. Baartmans***Professors emeriti:** *John W. Dettman, George F. Feeman, William C. Hoffman***Professors:** *Harvey J. Arnold, Alphonse H. Baartmans, Louis R. Bragg, Baruch Cahlon, G. Philip Johnson, Donald G. Malm, James H. McKay, Louis J. Nachman, Darrell Schmidt, Irwin E. Schochetman, Sze-Kai Tsui***Associate professors:** *Kevin T. Andrews, Charles C. Cheng, J. Curtis Chipman, David J. Downing, Jon Froemke, Jerrold W. Grossman, Subbaiah Perla, Meir Shillor, J. Barry Tirett, Stuart S. Wang, Stephen J. Wright***Assistant professors:** *Ian S. Bradbury, Mary P. Coffey, Almira Karabeg, Devadatta Kulkarni, T. N. Subramaniam, Winsom Taam,***Visiting assistant professor:** *Peter Shi***Adjunct professors:** *Joseph Assenzo, Seth Bonder, Thomas Hogaboam, Jim Jones, Gary C. McDonald, Edward F. Moylan, John A. Scott***Chief adviser:** *Jerrold W. Grossman*

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 or applied statistics, 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, business administration, 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 programming ability at the level of CSE 132 in their first or second year. Candidates for the B.S. degree must meet additional programming requirements. High school students intending to major in mathematical sciences should refer to the *Admissions* section of the catalog for specific preparation requirements.

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 011* ("Elementary Algebra"), MTH 012* ("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 011*
- I: The student has demonstrated competence through MTH 011* and is ready for MTH 012* or MTH 185
- R: The student has demonstrated competence through MTH 012* 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 011*, MTH 012* or MTH 141.

*See information concerning these courses below.

Skill development courses: MTH 011 and MTH 012

MTH 011 and MTH 012 are skill development courses specially designed to aid incoming students who need additional preparation prior to entering one of the university's standard math sequences. Credits earned in these courses, while part of a student's official record, may not be applied toward minimal graduation requirements in any academic program.

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 at or above the 300 level, including one course at 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 Mathematical Sciences 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.

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 455)
 - b. Discrete mathematics (APM 263, APM 463, APM 477)
 - c. Numerical analysis (APM 433, APM 434)
 - 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 2.00 (or equivalent).

Requirements for the major in applied statistics, B.S. program

To earn the Bachelor of Science degree with a major in applied statistics, students must:

1. Complete 28 credits in statistics: STA 226, 322, 427, 428 and 12 credits chosen from STA courses numbered above 300 (but not including STA 501-502).
2. Complete MTH 154, 155, 254, 256 and one more course chosen from APM 257, 263, 331, 332, 433, 434, or MOR 342, 346.
3. Complete CSE 132 and either CSE 232 or CSE 236.
4. Complete ENG 380 or 382.
5. Complete a course in ethics given by the Department of Philosophy.
6. Complete 16 credits in a single area outside the Department of Mathematical Sciences to which statistics could be applied. The 16 credits must include at least one course that is quantitatively oriented. The rest of the 16 credits could come from prerequisite courses or any related courses. These 16 credits must be approved in advance by an adviser in the Department of Mathematical Sciences. The courses need not be in a single department, but the total package should constitute a substantive examination of a single area.
7. Earn a minimum grade of 2.0 in each mathematical sciences and computer science course used to satisfy the major requirements.

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 mathematical science 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, students must take a minimum of 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. Each course used to satisfy the minor requirements must be completed with a grade of at least 2.0.

Students majoring in engineering or computer science should consult "Concentrations and minors" in the School of Engineering and Computer Science section of this catalog 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, students must take a minimum of 20 credits of departmental course work. Only MTH 154 and STA 226 and courses with at least MTH 154 as a prerequisite may be used to satisfy this requirement. It is recommended that students select their 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. Each course used to satisfy the minor requirements must be completed with a grade of at least 2.0.

Requirements for the 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 a minimum of 20 credits of CSE courses with a grade point average of at least 2.00, from the following:

1. A maximum of 8 credits from CSE 125, and either CSE 130 or 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.

Students seeking a minor must obtain permission from the Department of Computer Science and Engineering in order to register for CSE courses at the 300 and 400 levels.

Course Offerings

MATHEMATICS

MTH 011 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. *This course cannot be used to satisfy minimal graduation requirements in any program.*

MTH 012 Intermediate Algebra (4)

Algebraic fractions, nonlinear inequalities, analytic geometry (distance, circles, parabolas, hyperbolas), the algebra of exponents, radicals and logarithms; problem solving. *This course cannot be used to satisfy minimal graduation requirements in any program.*

Prerequisite: MTH 011 or placement.

MTH 100 Topics in Elementary Mathematics (2 or 4)

A selection of topics designed to develop student 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 Academic Support Program.

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 012 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 Precalculus (4)

Functions, roots of polynomials, rational, exponential and logarithmic functions, trigonometric functions (including graphs, identities, inverse functions, equations and applications), complex numbers, analytic geometry and conic sections.

Prerequisite: MTH 012 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 011 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 the theoretical and computational aspects of linear algebra. Topics covered include linear equations, vectors and matrices, matrix algebra, determinants, eigenvalues and eigenvectors, linear transformations, vector spaces, and inner product spaces.

Prerequisite: MTH 155.

MTH 290 Independent Study (2 or 4)

Reading or research on some mathematical topic. May be repeated for additional credit.

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 the 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 repeated for additional credit.

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 \mathbb{R}^n , curves in \mathbb{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. May be repeated for additional credit.

Prerequisite: Permission of department.

MTH 497 Apprentice College Teaching (2 or 4)

Open to any well-qualified junior or senior 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. May be repeated for additional credit.

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)

Concepts and methods of discrete mathematics with an emphasis on their application to computer science, logic and proofs, sets and relations, algorithms, induction and recursion, combinatorics, graphs and trees.

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 repeated for additional credit.

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 and minors.

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 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 either 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 477 Computer Algebra (4)

The mathematics and algorithms for symbolic computation. Includes theory of algebraic extensions, modular and p-adic methods, Groebner bases, factorization and zeros of polynomials, solutions to systems of polynomial equations, applications to automatic geometric theorem proving, and closed form solutions to differential equations.

Prerequisites: MTH 256 and knowledge of a scientific computer programming language, or permission of instructor.

APM 490 Independent Study (2 or 4)

Reading or research on some topic in applied mathematics. May be repeated for additional credit.

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 012 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 Analysis of Categorical Data (4)

Analysis techniques for data obtained by counting responses in different categories. Discrete distributions, goodness of fit, contingency tables, association and agreement measures, loglinear and logit models.

Prerequisite: STA 226 or permission of instructor.

STA 405 Special Topics (2 or 4)

Advanced study of a selected topic in statistics. May be repeated for additional credit.

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 426 Statistical Analysis by Graphical and Rank Order Methods (4)

Exploratory data analysis, rank tests for location and scale, power of competing tests, confidence intervals, nonparametric analysis of variance methods.

Prerequisite: STA 226 or permission of instructor.

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. May be repeated for additional credit.

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 both 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 elementary education majors.

Prerequisite: MTH 012 or placement.

MTE 211 Structures of 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-dimensional and Euclidean spaces. Enrollment is limited to elementary education majors.

Prerequisite: MTE 210.

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 IST 396.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

418 WILSON HALL

(313) 370-2060

Chairperson: *Renate Gerulaitis***Professors emeriti:** *John W. Barthel (German), Dolores Burdick (French), Alfred J. DuBruck (French), Don R. Iodice (French), Helen Kovach-Tarakanov (Russian), Richard A. Mazzara (French), Robert E. Simmons (German), Amitendranath Tagore (Chinese), Carmen Uribe (Spanish)***Professors:** *Carlo Coppola (Hindi-Urdu), Renate Gerulaitis (German), Jack R. Moeller (German), Munibur Rahman (Hindi-Urdu), Norman Susskind (French)***Associate professors:** *William C. Bryant (Spanish), David Jaymes (French), John Marney (Chinese), Kathryn M. McArdle-Pigott (Spanish)***Assistant professors:** *Nicole Buffard-O'Shea (French), Barbara Mabee (German), Patricia G. Montenegro (Spanish), Ronald F. Rapin (Spanish), Sally M. Silk (French)***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. Majors such as political science, English, linguistics, 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 must 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 liberal arts majors in a modern language and literature

The department offers three liberal arts degrees in language and literature: French, German and Spanish. The requirement for each degree is a minimum of 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 and Spanish 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 a minimum of 18 credits at the 300 and 400 levels in each of two languages. In French and Spanish, courses numbered 314, 316, 318, 355, 408 and 455 are required. German must include courses numbered 316, 317, 318, 355, 408 and 455. 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 or business. 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 a minimum of 24 credits in German beyond second year and 20 credits in related fields. The German courses required are GRM 316, 317, 318, 340, 355, 370, 408 and 440. The courses required in related fields are AH 345, HST 343, LIT 182, MUS 100 or MUS 320, PS 372. In addition, students must choose two corequisites from among the following: AH 334, AH 365, HST 327, HST 341, MUS 345.

Requirements for the modified liberal arts major in a modern language with majors or minors in economics, business, international management, engineering, or computer science

Modified majors are available in French, German, Spanish and Chinese with majors or minors in economics, business, international management, engineering, or computer science. (Students with majors or minors in one of the other professional schools may petition the department for a modified major.) The requirement in French, German or Spanish is a minimum of 24 credits at the 300-400 level. In Chinese, the requirement is a minimum of 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 business. (Students interested in a five-year program leading to a Bachelor of Arts degree in a modern language and a Master of Business Administration should consult the department's "Student Advising Guide" and the *Oakland University Graduate Catalog*.)

Requirements for the liberal arts major in Chinese language and civilization

The requirements are a minimum of 16 credits in Chinese language courses numbered 314, 316, 355, 380, and 408 and a minimum of 20 credits in East Asian studies courses, including IS 210. For further information, see the East Asian studies program described on page 98.

Requirements for the liberal arts major in Latin American language and civilization

The requirements are a minimum of 18 credits in Spanish language courses numbered SPN 314, 316, 318, 355, 370, and 408 and 20 credits in Latin American studies courses, including IS 250. Latin American studies courses must be chosen from the list on page 99.

Departmental honors and scholarships

At the discretion of the department, departmental honors in a foreign language may be awarded to graduating seniors who complete a writing project, usually either a critical paper or a translation, of high quality and who maintain 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.

There are three scholarships specifically for majors in the department. The Robert E. Simmons Tuition Grant provides two one-semester grants for German majors. The Don R. Iodice Grant-in-Aid for Foreign Travel is available for majors who will return to Oakland University for a minimum of two full semesters. The Carmine Rocco Linsalata Memorial Scholarship offers one stipend to an incoming student who intends to major in a foreign language and another to a major with a minimum of 28 credits.

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. A 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 or Spanish language and literature. The requirement is a minimum of 20 credits beyond the 115 level, including 370 and 380.

Requirements for the liberal arts minor in a modern language

Minors are available in Chinese, French, German or Spanish language. The requirement is a minimum of 20 credits beyond 114-115. French 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 a minimum of 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 a minimum of 20 credits in one language. Of these, 16 credits must be at the 300-400 level, including 314, 316 and 370 in French and Spanish and 316, 317, 318 and 370 in German.

Requirements for an elementary teaching major in a modern language

For students who wish to teach a foreign language at the elementary or junior high school level, the requirement is a minimum of 36 credits in one language, including elementary and intermediate courses. For complete details on other requirements, including courses in education, consult the Department of Curriculum, Instruction and Leadership in the School of Education and Human 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. 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 314 Grammar Review through Translation (4)

Review of Chinese grammar through translation of a variety of materials from English to Chinese and Chinese to English.

Prerequisite: CHE 215.

CHE 316 Intermediate Chinese 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 CHE 314.

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 355 Translation: Chinese (4)

Translation from Chinese to English of a range of materials from commercial and technical to literary, with an emphasis on idiomatic English.

Prerequisite: CHE 314, 316.

CHE 380 Survey of Chinese Literature (4)

Masterpieces of Chinese literature; a selected historical overview.

Prerequisite: CHE 215.

CHE 408 Advanced Oral Practice in Chinese (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: CHE 316.

CHE 410 Chinese Fiction and Drama (4)

Studies in texts and criticism of fiction and drama, modern or classical.

Prerequisite: CHE 310.

CHE 418 The Twentieth Century (4)

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

Prerequisite: CHE 380.

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 355.

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. 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: One year of college French or equivalent.

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 Elementary and Middle Schools (2 or 4)

Provides supervised experience in teaching French in elementary and middle schools. 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 390 Directed Readings in French (2 or 4)

Directed individual readings in French. May be repeated for a total of 8 credits.

Prerequisite: Permission of instructor.

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 and FRH 380.

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 and FRH 380.

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 and FRH 380.

FRH 418 The Twentieth Century (4)

A study of works in various genres by leading French authors such as Camus, Sartre, Anouilh, Malraux and Gide. Conducted in French.

Prerequisite: FRH 370 and FRH 380.

FRH 455 Translation into French (4)

Translation from English into French 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: 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 480 Undergraduate Seminar (2 or 4)

Study of individual authors, selected themes or critical problems. Conducted in French.

Prerequisite: FRH 370 and 380.

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 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. 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: One year of college German or equivalent.

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 fall 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 before 1900. The course covers the principal characteristics of culture and civilization generally regarded as important by German-speaking people themselves. Conducted in German. Offered fall semester in alternate years.

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 Elementary and Middle Schools (2 or 4)

Provides supervised experience in teaching German in elementary and middle schools. 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. Conducted in German. Offered fall semester in alternate years.

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 in alternate years.

Prerequisite: GRM 370.

GRM 390 Directed Readings in German (2 or 4)

Directed individual readings in German. May be repeated for a total of 8 credits.

Prerequisite: Permission of instructor.

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 novella 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. Conducted in German. Offered winter semester in alternate years.
Prerequisite: GRM 340 or reading ability at the fourth-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 480 Undergraduate Seminar (2 or 4)

Study of individual authors, selected themes, or critical problems. Conducted in German.
Prerequisite: GRM 370 and 380.

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. A beginning course. HIU 114 must be taken first. *HIU 114 satisfies the university general education requirement in language.*

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. 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: One year of college Italian or equivalent.

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. 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: One year of college Japanese or equivalent.

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 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. RUS 114 must be taken first. *RUS 114 satisfies the university general education requirement in language.*

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: One year of college Russian or equivalent.

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.

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.

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.

Prerequisite: RUS 314.

RUS 355 Translation: Russian (2)

Translation from Russian to English of a range of materials from commercial and technical to literary, with an emphasis on idiomatic English.

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.

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.

Prerequisite: RUS 318 and 355.

RUS 480 Undergraduate Seminar (2 or 4)

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

Prerequisite: RUS 370 and RUS 380.

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. SPN 114 must be taken first. *SPN 114 satisfies the university general education requirement in language.*

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: One year of college Spanish or equivalent.

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 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 together with directed conversation. 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 314.

SPN 318 Spanish Composition (2)

Practice in written composition. Techniques of textual analysis and exposition are introduced. Offered winter semester. Should be taken together with SPN 316.

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.

Prerequisite: SPN 215.

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 Elementary and Middle Schools (2 or 4)

Provides supervised experience in teaching Spanish in elementary and middle schools. 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)

Chronological development of literary movements based on a selection of masterpieces of Spanish literature. Conducted in Spanish. Offered winter semester.

Prerequisite: SPN 370.

SPN 390 Directed Readings in Spanish (2 or 4)

Directed individual readings in Spanish. May be repeated for a total of 8 credits.

Prerequisite: Permission of instructor.

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 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 390 Advanced Study of Topics Related to Foreign Languages and Cultures (2 or 4)

Topics are explored in areas not normally a part of regular offerings in language, culture or literature. May be repeated for a total of 8 credits.

Prerequisite: Permission of department.

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.

ML 440 Interactive Technology: Computers in Foreign Language Teaching (4)

The course will develop competency in creating supplementary computer software for foreign language classes in the schools. It will include designing and field-testing interactive computer programs, proficiency-based units, and programs for "housekeeping chores." In addition, students will learn to evaluate commercial material.

Prerequisite: B.A. or B.S. or completion of ED 428 or equivalent (methodology of teaching foreign languages) or permission of the instructor. Major or minor in a foreign language or English as a second language. Prior experience with computers highly recommended.

DEPARTMENT OF MUSIC, THEATRE AND DANCE

315 VARNER HALL

(313) 370-2030

Chairperson: *Robert Facko*

Professor emerita: *Adeline G. Hirschfeld-Medalia (Theatre)*

Professors: *David Daniels, Stanley Hollingsworth, Lyle Nordstrom, John K. Urice*

Associate professors: *Raynold Allvin, James Dawson, John Douaras, Robert Facko, Michael Gillespie, Carol Halsted, Flavio Varani*

Assistant professors: *Susan Barrett, Laurie Eisenhower, Michael Naylor, John Paul White*

Visiting assistant professor: *Betty Monroe*

Adjunct professors: *Terence E. Kilburn, Leonard Leone*

Adjunct assistant professors: *Joyce Adelson, Janice Albright, Thomas A. Aston*

Lecturers: *Steven Carryer, Frederic DeHaven, Robin Ennis, Philip Fox, Phyllis White*

String quartet in residence: *Lafayette String Quartet*

Applied music instructors: *Joyce Adelson (piano), Janice Albright (voice), Mary Bartlett (harp), Steven Carryer (jazz guitar), Keith Claeys (percussion), Douglas Cornelsen (clarinet), Penelope Crawford (harpsichord), James Dawson (saxophone), Frederic DeHaven (organ), Joseph DeMarsh (tuba), Edith Diggory (voice), Ann Elliott (violin), Kirkland Ferris (bassoon), John Hall (classical guitar), Pamela Highbaugh (cello), Joanna Hood (viola), Maxim Janowsky (jazz double bass), Kenneth Kellet (jazz double bass), Bryan Kennedy (french horn), Daniel Maslanka (jazz percussion), Ervin Monroe (flute), Brian Moon (trumpet), Lyle Nordstrom (recorder/lute), Patricia Adams Nordstrom (recorder/viola da gamba), Scott Petersen (jazz saxophone), Eddie Russ (jazz piano), Sharon Stanis (violin), Walter Szymanski (jazz trumpet), Flavio Varani (piano), John Paul White (voice)*

Chief adviser: *David Daniels*

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, sacred 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 167.

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

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

This degree is for students who wish a broad general education without a high degree of specialization in music. Students in this degree program may not use a music course to satisfy the university general education requirement in the arts. Students must successfully complete the departmental ear training examination and must fulfill the concert attendance requirement and solo performance requirement as described in the "Undergraduate Music Handbook." The following course work is required:

	Credits
Harmony and Ear Training: MUT 211-212	8
Theory elective, selected from MUT 311, 312, 314, 410, 412, 414	4
Orchestration: MUT 411	4
Music history survey: MUS 320	4
Music history electives: four courses selected from MUS 250, 328, 329, 330, 334, 345, 347, 423	8-10
Ensembles: Four semesters; two must use applied major	4
Applied music (may include conducting, and up to 4 credits in keyboard techniques)	16
Language: Two years of a modern language, or equivalent proficiency	4-16

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, sacred music and commercial music. Students in this degree program may not use a music course to satisfy the university general education requirement in the arts. Students must successfully complete the departmental ear training examination and must fulfill the concert attendance requirement and solo performance requirement as described in the "Undergraduate Music Handbook." Requirements are listed below by major.

1. Instrumental Music Education	Credits
Harmony and Ear Training: MUT 211-212	8
Theory elective, selected from MUT 311, 312, 314, 410, 412, 414	4
Orchestration (MUT 411)	4
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Applied major (normally an orchestral instrument)	14
Applied minor (MUA 251, 252, 253, 254, 256, 257, 258; a student whose applied major is one of the above will substitute MUA 255 for the appropriate class)	7
Ensemble (seven semesters of membership required)	4
Keyboard: MUA 371 (or equivalent proficiency)	0-6
MUA 160, Vocal Techniques	2
MUS 395, Conducting	4
MUS 400, Elementary Instrumental Methods	4
MUS 404, Secondary Instrumental Methods	4
RDG 338, Teaching Reading in the Content Areas	4
FE 344, Social and Philosophical Issues in Secondary Education	4
FE 345, Education Psychology for Secondary Teachers	4
SED 427, Methods of Teaching Secondary Students	2
SED 455, Internship in Secondary Education	12
Language numbered 115 or higher	4-8

	Credits
2. Vocal music education	
Harmony and Ear Training: MUT 211-212	8
Theory elective, selected from MUT 311, 312, 314, 412, 414	4
Orchestration (MUT 411)	4
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Applied major (normally voice or piano)	14
Applied minor (piano for voice majors; voice for piano majors; both for those with another applied major)	8-16
Ensemble (seven semesters of membership required)	4
Instrumental class (1 credit each of a wind and a string instrument class, chosen from MUA 251-259)	2
MUS 395, Conducting	4
MUS 401, Teaching Music in the Elementary Schools	4
MUS 403, Secondary Choral Methods	2
ML 211-212, Diction for Singers (offered only in alternate years)	8
Language numbered 115 or higher or equivalent proficiency	4-8
RDG 338, Teaching Reading in the Content Areas	4
FE 344, Social and Philosophical Issues in Secondary Education	4
FE 345, Educational Psychology for Secondary Teachers	4
SED 427, Methods of Teaching Secondary Students	2
SED 455, Internship in Secondary Education	12
3. Performance: piano or organ	
Harmony and Ear Training: MUT 211-212	8
Theory electives, selected from MUT 311, 312, 314, 410, 411, 412, 414	8
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Ensembles: eight semesters; four must be accompanying	8
Applied major	32
Applied minor	8
Piano pedagogy: MUS 441	4
Repertoire (MUS 440 for pianists; organists consult an adviser)	4
<i>Recommended:</i> Conducting: MUS 395	4
Senior recital	
Language course (German, French or Italian recommended) numbered 215 or higher; or language course numbered 115 or higher plus Diction for Singers (ML 211-212, offered only in alternate years)	4-16
4. Performance: voice	
Harmony and Ear Training: MUT 211-212	8
Theory electives, selected from MUT 311, 312, 314, 410, 411, 412, 414	8
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Ensemble: eight semesters; four must use applied major; one semester must be accompanying	8
Applied major	32
Applied minor (must be keyboard unless excused by proficiency equivalent to MUA 471)	8
Repertoire	4
<i>Recommended:</i> Conducting: MUS 395	4

	Credits
Senior recital Italian, French or German course numbered 115 or higher plus Diction for Singers (ML 211-212, offered only in alternate years)	8-16
5. Performance: orchestral instruments or guitar	
Harmony and Ear Training: MUT 211-212	8
Theory electives, selected from MUT 311, 312, 314, 410, 411, 412, 414	8
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Ensembles: two per semester for eight semesters; eight must use ap- plied major (For guitar majors: eight semesters; four must use applied major)	16(8)
Applied major	32
Applied minor (must be keyboard unless excused by proficiency equivalent to MUA 471)	8
Repertoire: 2 credits for orchestral instruments; 4 credits for guitar	2(4)
<i>Recommended:</i> Conducting: MUS 395	4
Senior recital Language course (German, French or Italian recommended) numbered 115 or higher	4-8
6. Early music	
Harmony and Ear Training: MUT 211-212	8
Theory electives, selected from MUT 311, 312, 314, 410, 411, 412, 414	8
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Ensembles: one per semester for four semesters; two per semester for four semesters; six must use applied major	12
Applied major	24
Applied minor	8
Keyboard: MUA 271 or equivalent proficiency	0-4
Performance practice: MUS 423	2
Bibliography: MUS 490	2
Language course (German, French or Italian recommended) numbered 215 or higher	4-16
<i>Recommended:</i> Senior recital Additional credits in music history	
7. Theory	
Harmony and Ear Training: MUT 211-212	8
Advanced theory: MUT 311, 312, 410, 411, 412	20
Composition	4
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Ensembles: six semesters; three 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 course (German recommended) numbered 215 or higher	4-16
<i>Recommended:</i> Additional credits in music history	

	Credits
8. Composition	
Harmony and Ear Training: MUT 211-212	8
Advanced theory: MUT 311, 312, 410, 411, 412	20
Composition	16
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Ensembles: six semesters; three must use applied major	6
Applied major	8
Keyboard: MUA 471 or equivalent proficiency	0-8
Conducting: MUS 395	4
Senior recital	
Language course (German recommended) numbered 215 or higher, or language course numbered 115 or higher plus Diction for Singers (ML 211-212, offered only in alternate years)	4-16
9. Jazz and commercial music (instrumental)	
Harmony and Ear Training: MUT 211-212	8
Jazz Theory: MUT 314	4
Jazz Composition and Arranging: MUT 414	4
Music history survey: MUS 320	4
Jazz history I & II: MUS 347-348	4
Ensembles: eight semesters; four must use applied major	8
Applied major	16
Keyboard techniques: proficiency equivalent to MUA 271	0-4
Jazz piano: MUA 130, 230, 330, or 430	8
Jazz Improvisation Workshop: MUE 341 (four semesters)	8
World music: MUS 250	4
Business of Music: MUS 318	4
Commercial Music Seminar: MUS 315	2
Senior recital	
Language course (French recommended) numbered 115 or higher	4-8
10. Jazz and commercial music (vocal)	
Harmony and Ear Training: MUT 211-212	8
Jazz Theory: MUT 314	4
Jazz Composition and Arranging: MUT 414	4
Music history survey: MUS 320	4
Jazz history I & II: MUS 347-348	4
Ensembles: eight semesters	8
Applied major	16
Keyboard techniques: equivalent of MUA 271	0-4
Jazz piano: MUA 130, 230, 330, or 430	8
Business of Music: MUS 318	4
Commercial Music Seminar: MUS 315	4
Audio technology: MUS 353	2
Senior recital	
Language course (French recommended) numbered 115 or higher plus Diction for Singers (ML 211-212, offered only in alternate years)	12-16
Fundamentals of Acting: THA 267	4
Dance courses selected from ballet, modern dance, jazz dance, or choreography	2
<i>Recommended: Additional dance courses</i>	

11. Sacred Music

Harmony and Ear Training: MUT 211-212	8
Theory electives, selected from MUT 311, 312, 314, 410, 411, 412, 414	8
Music history survey: MUS 320	4
Music history electives: two 2-credit courses selected from MUS 328, 329, 330, 334, 345, 347	4
Ensembles: eight semesters, four of which must be in accompanying	8
Applied major: Organ	24
Applied minor: Voice	8
Church Music I and II: MUS 360-361	4
Conducting: MUS 395	4
Secondary Choral Methods: MUS 403	2
Performance Practices: MUS 423	2
Beginning Violin or Violoncello: MUA 251 or 252	1
One beginning wind class (MUA 253-257)	1
Senior recital	0
ML 211-212 Diction for singers	8
German through GRM 115	4 or 8

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, students must:

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. For ensemble auditions, see Music Ensembles, p. 133.

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 403, 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 a minimum of 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

APPLIED MUSIC

Applied music refers to study of a given instrument or voice.

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 Voice (2 or 4)

Prerequisite: MUA 160, Vocal Techniques (2 credits) for one semester.

MUA 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.

MUA 160 Vocal Techniques (2)

Techniques of singing, including diction, breath control, projection and repertoire. This course is a prerequisite to private voice study. Preference for openings in this course is given to music majors.

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 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 ENSEMBLES

Ensembles are open to all students by audition. May be repeated for credit. Students may pre-register for the ensemble of their choice; auditions are held during the first week of classes for most ensembles.

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 ensemble performance of staged and choreographed shows.
Prerequisite: Permission of instructor.
- MUE 307 University Drive (1)**
A show ensemble 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 ensemble presenting staged and choreographed shows. Rigorous performance schedule in professional situations. Auditions are held prior to the beginning of the semester.
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.

MUSIC HISTORY, LITERATURE, APPRECIATION AND EDUCATION**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 149 Music as an Art and as an Elementary School Subject (4)

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 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 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 250 World Music Survey (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 251 Applied Music (1 or 2)

Independent study for freshmen and sophomores in the technique and literature of a performing medium. Offered spring and summer terms.
Prerequisite: Permission of department.

MUS 295 Independent Study (1, 2 or 4)

Normally for freshmen and sophomores.
Prerequisite: Permission of department.

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 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 university 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 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)**
A study of commercial music careers and performance 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 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 of 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 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)**
Develops a purposeful approach to methodology. Isolates distinct teaching problems and develops practical knowledge through discovery principles. One hour per week field experience is required.
Prerequisite: MUT 212.
- 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. Participation in a selected number of field studies included.
Prerequisite: MUT 212 (Harmony and Ear Training II).
- MUS 403 Secondary Choral Methods (2)**
The organization and conducting of choral music in junior and senior high schools. Repertoire, materials and techniques. Assigned number of field studies in junior and senior high school choral programs.
Prerequisite: MUS 395 or permission.

MUS 404 Secondary Instrumental Methods (2)

The organization and conducting of instrumental music in junior and senior high schools. Repertoire, materials and techniques. A selected number of field studies included.

Prerequisite: MUS 395 or permission.

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 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 451 Applied Music (1 or 2)

Independent study for juniors and seniors in the technique and literature of a performing medium. Offered spring and summer terms.

Prerequisite: Permission of department.

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, 2 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 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.

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, 403 and 404.

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.

MUS 499 Special Topics in Music (1, 2, 3 or 4)

Current topics and issues in music performance and literature.

MUSIC THEORY AND COMPOSITION**MUT 110 Rudiments of Music Notation (2)**

Introduction to music notation and terminology. Offered concurrently with MUT 111.

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 "Undergraduate 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.

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 a minimum of 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 or THA 462.

To earn a minor in dance, students must complete a minimum of 20 credits distributed as follows: 12 credits from DAN 173, DAN 372 and 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 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 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 (2 or 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**DAN 100, 200, 300, 400 Ballet (1)**

Technique of classical ballet. Each course may be repeated for up to 4 credits.

Prerequisite: Permission of instructor for courses above 100.

DAN 110, 210, 310, 410 Modern Dance (1)

Technique of modern dance. Each course may be repeated for up to 4 credits.

Prerequisite: Permission of instructor for courses above 110.

DAN 120, 220, 320, 420 Jazz Dance (1)

Technique of jazz dance. Each course may be repeated for up to 4 credits.

Prerequisite: Permission of instructor for courses above 120.

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. Graded S/U.

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 441 Dance Pedagogy (4)

Theory and practice of teaching ballet and modern dance. Emphasis on instruction of adult-level classes.

Prerequisite: Permission of instructor.

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

530 WILSON HALL

(313) 370-3390

Chairperson: *David C. Bricker*

Professor: *Richard J. Burke*

Associate professors: *David C. Bricker, Richard W. Brooks*

Assistant professor: *John F. Halpin, Paul Graves*

Adjunct professor: *Charles E. Morton*

Associated faculty: *Professor Ronald M. Swartz (Education and Philosophy), Associate professors Marc E. Briod (Education and Philosophy), William Fish (Education and Philosophy)*

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, a 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 a minimum of 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 additional appropriate course work.

Departmental honors

Departmental honors in philosophy require at least a 3.50 grade point average 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 a minimum of 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): a minimum of 24 credits in philosophy, including PHL 352. For requirements in international studies, see page 97.
2. Major in philosophy with a concentration in linguistics: a minimum of 24 credits in philosophy, including PHL 475. For requirements in linguistics, see page 101.
3. Major in philosophy with a concentration in religious studies: a minimum of 24 credits in philosophy, including PHL 325. For requirements in religious studies, see page 195.

Requirements for the liberal arts minor in philosophy

To earn a minor in philosophy, students must complete a minimum of 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 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 311 Philosophy of Peace and War (4)

Philosophical issues related to peace and war, including: just war theory, nuclear weapons, international conventions, non-violence as a strategy of conflict resolution. Offered every two years.

Prerequisite: One philosophy course or 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 012 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

201 HANNAH HALL

(313) 370-3416

Chairperson: *Norman Tepley*

Professors emeritus: *Ralph C. Mobley, Paul A. Tipler*

Professors: *Beverly Berger, Michael Chopp, Fredrick W. Hetzel, Abraham R. Liboff, John M. McKinley, Roger J. Ordidge, Norman Tepley, Robert M. Williamson*

Associate professor: *W. D. Wallace*

Assistant professors: *Gopalan Srinivasan, Henry E. Kandrup*

Adjunct professors: *Carl Bleil, Adrian Kantrowitz, Paul D. Stein, K.M.A. Welch*

Adjunct assistant professors: *Elsa R. Beck, Jack E. Juni, Bryan P. Shumaker*

Clinical professors of medical physics: *Peter M. Corry, Howard J. Dworkin, Harold Portnoy, Gerald C. Timmis*

Clinical associate professors of medical physics: *Jorge O. Just Viera, Joseph S. Rosenshein*

Clinical assistant professors of medical physics: *Elwood P. Armour, Morris I. Bank, Yong J. Lee, Michael J. Parrott*

Adjunct professor of medical physics: *Michael J. Borrelli*

Adjunct assistant professor of medical physics: *Joseph A. Helpem*

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. High school students intending to major in physics should refer to the *Admissions* section of the catalog for specific preparation requirements.

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, Master of Science degree in physics, and Doctor of Philosophy degree in biomedical sciences with specialization in medical physics.

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 is based on a group of physics courses plus relevant biology, chemistry and mathematics courses. In their senior year, these students take "Physics of 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.) A limited number of upper-level internships are available in medical physics. Students wishing to take a hospital internship are urged to declare their intentions as early as possible.

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.

Advising

W.D. Wallace is chief adviser for the department.

High school students intending to major in physics should refer to the *Admissions* section of the catalog for specific preparation requirements.

Advisers in the various physics fields are professors Beverly Berger (astronomy), Michael Chopp (medical physics), Abraham R. Liboff (biophysics), John M. McKinley (engineering physics, geophysics), Gopalan Srinivasan (industrial physics, electronics), and Robert Williamson (teaching minor). Independent research projects are available in each area.

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. A minimum of 32 credits in physics, with at least 22 credits in courses numbered above 200.
2. 20 additional credits in chemistry, mathematics and physics.

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, 317, 351, 371).
2. A minimum of 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, 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.

Requirements for the major in engineering physics, B.S. program

Coordinators: John M. McKinley (*Physics*), Hoda Abdel-Aty-Zohdy (*Engineering*)

To earn the Bachelor of Science degree with a major in engineering physics (128 credits), 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, 378, 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 232.

Students in this program are not required to complete the college distribution requirement of the College of Arts and Sciences. For further information about this program, including professional options, see the section of this catalog for the School of Engineering and Computer Science, Engineering Physics program.

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 a minimum of 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, heat, mechanical waves and sound. Calculus is not required. Offered fall and winter.

Prerequisite: High school algebra and trigonometry or equivalent. Concurrent enrollment in PHY 100 is required fall and winter. *Satisfies university general education requirement in natural science and technology.*

PHY 102 General Physics II (4)

Electricity and magnetism, light, relativity, atomic and nuclear physics. Offered fall and winter.

Prerequisite: PHY 101. Concurrent enrollment in PHY 100 is required fall and winter.

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 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 (or passing grade in PHY 101) and MTH 154. Concurrent enrollment in PHY 100 is required fall and winter.

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 fall and winter.

PHY 158 General Physics Laboratory (2)

Elementary experiments in mechanics, heat, sound, electricity and optics. Offered fall and winter.

Prerequisite: PHY 101 or 151. Corequisite: PHY 102 or 152.

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 other 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 either MTH 122 or MTH 154.

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.
Prerequisite: 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 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 317 and PHY 371. Also PHY 331 or permission of instructor.

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

420 VARNER HALL

(313) 370-2352

Chairperson: *William A. Macauley***Professors:** *Sheldon Appleton, Thomas W. Casstevens, Robert J. Goldstein, Edward J. Heubel, Vincent B. Khapoya, Roger H. Marz, James R. Ozinga, Carl R. Vann (Health Behavioral Sciences and Political Science)***Associate professor:** *William A. Macauley***Assistant professors:** *John Klemanski, Brent Steel***Instructors:** *C. Michelle Piskulich, John Piskulich***Chief adviser:** *E. J. Heubel***Internship director:** *E. J. Heubel*

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 students' 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 students with an interest in public affairs or students who intend 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. The Master of Public Administration degree is also offered by the department (see the *Oakland University Graduate Catalog*). The Master of Public Administration degree is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA).

Requirements for the liberal arts major in political science, B.A. program

To be admitted to major standing, students must complete the following core program: PS 100, 131, 303 and 304 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 a minimum of 40 credits in political science, distributed as follows:

1. The core program (14 credits: PS 100, 131, 303 and 304). PS 303 and 304 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, 350, 353, 402, 403, 440, 441 and 450); comparative and international politics (PS 314, 318, 329, 330, 331, 332, 333, 334, 335, 337, 410, 413 and 430); 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, B.S. program

To be admitted to major standing, students must complete the following core program: PS 100, 131, 303 and 304 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 a minimum of 56 credits, distributed as follows:

1. The core program (14 credits: PS 100, 131, 303 and 304). PS 303 and 304 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 the director of internships. In those cases where the internship requirement is waived, the student must elect an alternative 8 credits of political science, subject to approval of the department's chief academic adviser.
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 will be awarded competitively to selected students from among those who have attained an overall grade point average of at least 3.30 and a minimum grade point average of 3.70 for courses in political science. No more than 25 percent of the students for each graduation will be awarded honors in political science and public administration and public policy.

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: PS 241 (Law and Politics); PS 341 (Constitution and Civil Liberties); PS 342 (The Judicial Process); or PS 343 (The Supreme Court and Constitutional Politics). For advice in planning for law school, contact the department's prelaw adviser, Assistant Professor Brent Steel. The student should also read the Prewall Studies section of this catalog (see page 197).

Legal Assistant Program political science credit

In cooperation with Continuing Education, the Department of Political Science sponsors courses that prepare students for the legal assistant field. Students are required to take 8 foundation courses and 3 legal specialty courses, selected according to interest or career goals. Completion of the course work and an internship as specified by Continuing Education leads to a diploma awarded by that unit.

A student majoring in political science may offer up to 8 credits of this course work toward the 40 credits required for the major. The courses may also be taken as electives by students in other programs. Courses approved to date by the Committee on Instruction are listed below. For specific details, consult the director of the legal assistant program located in the Continuing Education Office.

PS 344a	(CE 2506)	Substantive Law Contracts: (1)
PS 344b	(CE 2507)	Substantive Law: Torts (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 447a	(CE 2550)	Probate Administration (1)
PS 447b	(CE 2560)	Taxation of Estates 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 449d	(CE 2547)	Litigation III: Anatomy of a Lawsuit (1)
PS 491		Special Topics for Legal Assistant (1)
PS 492	(CE 2599)	Ethics/Internship (2)

Requirements for the liberal arts minor in political science

To earn a minor in political science, students must complete a minimum of 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 (2 or 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 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 legal, 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 300 American Political Culture (4)

A study of the main themes in American culture and the ways in which they affect the political beliefs, attitudes, opinions and behaviors of Americans. Key themes include individualism, the drive for success, racial attitudes, the American sense of a special mission in the world, and American beliefs about democracy. (This course may not be taken for credit by students receiving credit for AMS 300.)

Prerequisite: PS 100.

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 303 Research Methods and Statistics (4)

A study of research design, measurement of political variables and data analysis. Not open to students who have completed PS 222. Concurrent enrollment in PS 304 is required.

Prerequisite: One course in political science.

PS 304 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 303. Not open to students who have completed PS 220 or PS 223. Concurrent enrollment in PS 303 is required.

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 311 Women and Politics (4)

Examines the role of women in politics including political participation and representation. Additional topics will include women and public issues (such as affirmative action and comparable worth) as well as an introduction to feminist political thought. Identical with WS 311.

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 303, and different modes of empirical political science research.

Prerequisite: PS 303.

PS 321 Systematic Political Analysis (4)

A study of selected formal (i.e., logical, mathematical or statistical) models in political science. An introduction to the methodology of social science research, with emphasis on student research projects.

Prerequisite or co-requisite: a course in elementary statistics or PS 303.

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 Politics of Development (4)**
An examination of the various approaches and theories used in comparative political research, including theories of political economic development and social change.
Prerequisite: PS 131 and PS 303.
- 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.
- 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.
- 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.
- 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.
- PS 341 Constitution and Civil Liberties (4)**
An analysis of theories of civil liberties and the constitutional and political conflicts over these issues.
Prerequisite: PS 100 or PS 241.
- PS 342 The Judicial Process (4)**
A study of judicial behavior and decision making in federal courts with an emphasis on the role of courts in developing public policies.
Prerequisite: PS 100 or 241.
- PS 343 The Supreme Court and Constitutional Politics (4)**
Survey of American constitutional law and the role of the Supreme Court in the American political system.
Prerequisite: PS 100 or PS 241.
- 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 and Program Evaluation (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 and either PS 303 or permission of instructor.

PS 359 Public Policy and Health Care (4)

An examination of the status and evolution of public policies relating to health and health care, the policy-making processes in health care and the various implications of trends in health care policy.

Identical with HBS 359.

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; form available in 420 Varner Hall.

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 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 and either PS 303 or STA 225.

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 303 or STA 225.

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; form available in 420 Varner Hall.

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 460 Seminar in Public Administration: Strategies and Policies (4)
- PS 480 Seminar in Political Theory (4)
- PS 490* Special Topics or Directed Research (2, 4 or 8)

Prerequisite: Permission of the instructor; form available in 420 Varner Hall.

*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

111 PRYALE

(313) 370-2300

Chairperson: *Lawrence G. Lilliston*

Professor emeritus: *Edward A. Bantel*

Professors: *David C. Beardslee, Jean S. Braten, Daniel N. Braunstein, Harvey Burdick, Ronald D. Hansen, Algea O. Harrison, Dean G. Purcell, Keith E. Stanovich*

Associate professors: *Virginia Blankenship, Max Brill, I. Theodore Landau, Lawrence G. Lilliston, David G. Lowy, Ralph Schillace, David W. Shantz, Robert B. Stewart, Jr., Harold Zepelin*

Assistant professor: *Frank Schieber*

Adjunct assistant professor: *Ruth Nathan*

Chief adviser: *Robert B. Stewart, Jr.*

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: students who plan to find employment after obtaining the bachelor's degree, students who plan to go to graduate school in psychology, students who plan to enter a field other than psychology that requires further formal training and students who have a general interest in psychology. A pamphlet, "Majoring in Psychology at Oakland University," is available in the department office. Students 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 must complete a minimum of 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 requirements in psychology are a minimum of 24 credits including PSY 100, PSY 250 and at least two 300-level courses. For additional information, see the linguistics section of the catalog.

Requirements for the liberal arts minor in psychology

To earn a minor in psychology, students must complete a minimum of 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 in 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 in 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)

Examines gender differences resulting from the socialization of girls and women and the psychological impact of life events experienced exclusively or differentially by women. Topics include role conflicts, gender stereotypes, achievement, and employment. Identical with WS 325.

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. Researchers, 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 numbered 210 or above.

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

317 WILSON HALL

(313) 370-4120

Chairperson: *Jane Briggs-Bunting*

Professors: *Jane Briggs-Bunting (director, Journalism Program), Donald C. Hildum (director, Communication Program), Neal Shine*

Associate professors: *Wilma Garcia, (director, Developmental Study Program), Alice Horning, Sharon Howell, Margaret B. Pigott, Roberta Schwartz, Ronald A. Sudol*

Assistant professors: *Wallis May Andersen, Van Hillard, David L. Lau*

Special instructors: *Rose Cooper, Bernadette Dickerson, Barbara Hamilton (director, Freshman Rhetoric Program), Margaret Kurzman*

Adjunct associate professor: *William W. Connellan*

Adjunct assistant professor: *James Llewellyn*

Lecturers in rhetoric: *Anne Becker (supervisor, Internships), Catherine Breidenbach, Barbara Dobson, Carl Dull, Tencia Gregory, Catherine Haer, Martha Hammel, LuAnne Holder, Monifa Jumanne, Ferial Kheir, Pamela Light, Donald Lytle, Susan Marren, Linda McCloskey, Timothy Pies, Anna Mae Powell, Leba Rautbort, Jeanie Robertson, Carole Royer, Carole Terry, Derri Thomas, Leslie Vitale, Edward Wolff, Helen Woodman, Helen Zucker, Jack Zucker*

Lecturers in communication arts: *Nanne Derby, Janet McKenney, Robert Parent, Donald Watson*

Lecturers in journalism: *Berl Falbaum, Stephen Friedman, William Gallagher, Leola Gee, Joe Grimm, Nigel Hampton, Karen Hermes-Smith, Thomas Houston, Kelly Kolhagen-Crawford, Anita Lienert, Kim Madeleine, Dane Maralason, Bill McGraw, Patricia Mills, William Mitchell, Rene Murawski, Brownson Murray, Joseph Pionessa, Gary Schafer, Steve VandenBrook, Linda Witan, Charles Yoakum*

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. The exact criterion varies 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, 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 placement 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 students who complete 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 for graduation. (See *Undergraduate degree requirements*.) *Students may not repeat the placement examination.*

Credit-bearing developmental courses (those below the 100 level but above 050) 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 045 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. Credits earned may not be used to satisfy minimal graduation requirements in any academic program.

Prerequisite: Placement through Special Programs.

RHT 060 Supervised Study (1 or 2)

One seven-week course (for one credit) or one 14-week (for 2 credits) course in tutorial instruction focusing on academic skills. 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 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. Graded S/U.

RHT 076 Reading Skills (4)

For students who need to improve their 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. Graded S/U.

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. A grade of 2.0 or better must be achieved to advance to RHT 101.

Prerequisite: Placement by testing.

RHT 101 Composition II (4)

A course emphasizing the process of writing in complex rhetorical situations with focus on organizational patterns and the development of logic, coherence, and unity. Also includes fundamentals of investigation, research, and annotation. A grade of 2.0 or better must be achieved to satisfy the university writing proficiency requirement.

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.

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 and 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 401, JRN 338, THA 230, THA 350

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

Nonverbal: SCN 114, SCN 115, SCN 317, 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 334, JRN 335, JRN 340, JRN 341, JRN 342, JRN 343, JRN 344, 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 minimum 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 communication arts, 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 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. SCN 303 and SCN 201 or SCN 202 are required. For linguistics requirements, see the Department of Linguistics section of this catalog.

Requirements for the liberal arts minor in communication 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, and 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 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 in Organizations (4)

Communication theory and practice within organizational systems.

SCN 305 Interpersonal Communication (4)

Elements, purposes and patterns of face-to-face communication and their effects; experience in interviewing, decision making and tutoring.

Prerequisite: One SCN course.

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 theories.

Prerequisite: SCN 201.

SCN 317 Nonverbal Communication (4)

Analysis and use of that substantial part of communication other than symbolic language, to enable the student to take an active and productive role in personal interaction.

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 organizations 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: Junior or senior standing, JRN 190 or 200, and 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 3.00 or above.
2. 20 credits of corequisite courses with an average grade of 3.00 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 sciences 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. A minimum of 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 341 and JRN 342 or JRN 343, plus an advertising internship (JRN 404); or for an emphasis in public relations: JRN 334 and JRN 335 or 336, plus a public relations internship (JRN 404).
3. Corequisites (36 credits) as follows (these courses, where appropriate, may also satisfy general education or college distribution 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 305, PS 372, PS 373 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, advertising or public relations

A minor in journalism requires a minimum of 24 credits in JRN courses, including JRN 200, JRN 300 and JRN 404.

A minor in advertising requires a minimum of 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. (JRN 343 may be substituted for JRN 342.)

A minor in public relations requires a minimum of 24 credits in JRN courses, including JRN 200, JRN 300, JRN 333, JRN 334 and an internship (JRN 404) in public relations. Additional course work to comprise the minimum of 24 credits must be selected from the following: JRN 313, JRN 330, JRN 335, JRN 336 and JRN 403.

Communication arts majors may not count credits toward the major and any of these minors simultaneously. Journalism majors may not minor in advertising or public relations.

Course Offerings

JRN 190 Journalistic Style (4)

Training in the style of newswriting with a discussion of basic reporting skills, writing of leads, familiarization with the Associated Press style, basic proofreading and copy editing skills.

Prerequisite: RHT 100.

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 or 4)

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, ENG 111, ENG 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 or 4)

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 334 Media Relations (2 or 4)

A study of the work of the public relations specialist in handling clients, promoting them in the various media and serving other client needs with emphasis on development of press packages, speech writing and organization of press conferences.

Prerequisite: JRN 333.

JRN 335 Video for Public Relations (2 or 4)

Understanding the elements involved in producing corporate videos, including an introduction to the technology of video, the applications of video to public relations needs and development of the video "treatment" for client presentation.

Prerequisite: JRN 333.

JRN 336 Public Relations in the Corporate Setting (2 or 4)

The study of the work of the public relations specialist within a corporation including legislation, media, internal communications, speech writing and annual reports. In addition, discussion of corporate structure and legal incorporation requirements is also included.

Prerequisite: JRN 333.

JRN 338 Advanced Broadcasting (4)

A practical application of skills learned in basic broadcasting classes. Students will produce a weekly newscast. The program, which airs on the (cable) education channel, is completely student produced; may be repeated once.

Prerequisite: JRN 332.

JRN 340 Introduction to Advertising (4)

Advertising in print and electronic 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 343 Direct Approaches in Advertising (2 or 4)

The study of the effect of direct mail, circular and similar forms of advertising on ad agencies, manufacturers, newspapers, magazines and television and strategies for the future.

Prerequisite: JRN 340.

JRN 344 Advertising Copywriting (4)

The planning, research and writing that goes into promotion of a company, product or person as part of an advertising campaign.

Prerequisite: JRN 340.

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.