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OAKLAND UNIVERSITY



1995-96 Undergraduate Catalog



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OAKLAND UNIVERSITY

1995-96 UNDERGRADUATE CATALOG

May 1995 Volume XXXV

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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.

The academic requirements described in this catalog are in effect fall semester 1995 through summer session 2002. Undergraduate students admitted to a degree-granting program may use provisions in this catalog to meet requirements within that time frame.

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Oakland University is a legally autonomous state institution of higher learning. Legislation established Oakland University as an independent institution, separate from Michigan State University, 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, Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act. It is the policy of Oakland University that there be no discrimination on the basis of race, sex, color, religion, national origin or ancestry, age, handicap, veteran status or other prohibited factors in employment, admissions, educational programs and 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	33
General Education Requirements	38
Ethnic Diversity Requirement	41
University Library	53
Other Programs	55
College of Arts and Sciences	58
Department of Art and Art History	65
Department of Biological Sciences	72
Department of Chemistry	82
Department of Economics	89
Department of English	92
Department of History	99
Center for International Programs	107
Department of Linguistics	112
Department of Mathematical Sciences	117
Department of Modern Languages and Literatures	126
Department of Music, Theatre and Dance	140
Department of Philosophy	158
Department of Physics	164
Department of Political Science	171
Department of Psychology	179
Department of Rhetoric, Communication and Journalism	185
Department of Sociology and Anthropology	196
Biochemistry Program	206
Environmental Health	208
Other Academic Options	212
Honors College	225
School of Business Administration	227
School of Education and Human Services	254
Department of Curriculum, Instruction and Leadership	256
Department of Human Development and Child Studies	265
Department of Human Resource Development	267
Department of Reading and Language Arts	278
Secondary Education	262
School of Engineering and Computer Science	280
Department of Computer Science and Engineering	293
Department of Electrical and Systems Engineering	298
Department of Mechanical Engineering	303
Engineering Sciences Programs	308
General Studies	323

Contents continued

School of Health Sciences	326
Exercise Science Program	329
Health Behavioral Sciences Program	331
Industrial Health and Safety Program	332
Medical Laboratory Sciences Program	335
Physical Therapy Program	341
School of Nursing	346
University Faculty	355
Offices of the University	369
Course Reference	375
Index	376
Planning Page	386
Campus Map	388

Academic Advising Index

Students seeking information about specific majors may consult the advising offices of the College or any of the schools, or individual departments. Students who are undecided may consult advisers in Academic Services, or in the Arts and Sciences Advising Office, or in the advising offices of the schools.

Academic Services and General Studies

121 North Foundation Hall
370-3227

General Studies

Undecided—No Major Preference

College of Arts and Sciences

211 Varner Hall
370-4567

African and African-American Studies

Anthropology

Applied Statistics

Art History

Biochemistry

Biology

Chemistry

Communication

East Asian Studies (China or Japan)

Economics

Engineering Chemistry

Engineering Physics

English

Environmental Health

French Language and Literature

German and German Studies

German Language and Literature

History

Journalism

Latin American Language/Civilization

Latin American Studies

Linguistics

Mathematics

Medical Physics

Music

Performing Arts

Philosophy

Physics

Political Science

Psychology

Public Administration and Policy

Russian Language/Civilization

Slavic Studies

Sociology

South Asian Studies

Spanish Language and Literature

Undecided—Fine Arts, Letters,

Science/Math or Social Science

Academic Advising Index *continued***School of Business Administration**

433 Varner Hall
370-3285

Accounting
Economics
Finance
General Management
Human Resources Management
Management Information Systems
Marketing

School of Education and Human Services

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

Early Childhood Education
Elementary Education
Human Resource Development
Secondary Education
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 West Vandenberg Hall
370-4195

Cytotechnology
Exercise Science
Histotechnology
Industrial Health and Safety
Medical Laboratory Sciences
Medical Technology
Nuclear Medicine Technology
Physical Therapy
Undecided—Health Sciences

School of Nursing

434 O'Dowd Hall
370-4073

Nursing
Undecided—Nursing

For More Information

Area code: (810)

Admissions: 370-3360 (undergraduate) 370-3168 (graduate)

Handicapped student services: 370-3266

Information: 370-2100

International student services: 370-3266

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

Scholarships and grants: 370-3360 (new students)/370-3370 (returning students)/
370-3168 (graduate students)

Student affairs: 370-3352 (Student Life Office)

Student housing: 370-3570 (Residence Halls Office)

Academic Calendar

Fall 1995

Registration	Thursday	August 31
Labor Day holiday	Monday	September 4
Classes begin	7:30 a.m., Tuesday	September 5
Fall commencement	2 p.m., Sunday	September 17
Thanksgiving recess begins	10 p.m., Wednesday	November 22
Classes resume	7:30 a.m., Monday	November 27
Classes end	10 p.m., Tuesday	December 12
Study period	Wednesday	December 13
Exams begin	7:30 a.m., Thursday	December 14
Exams end	10 p.m., Wednesday	December 20

Winter 1996

Registration	Wednesday	January 3
Classes begin	7:30 a.m., Thursday	January 4
Winter recess begins	10 p.m., Saturday	February 24
Classes resume	7:30 a.m., Monday	March 4
Classes end	10 p.m., Wednesday	April 17
Study period	Thursday	April 18
Exams begin	7:30 a.m., Friday	April 19
Exams end	10 p.m., Thursday	April 25

Spring 1996

Registration	Monday	April 29
Classes begin	7:30 a.m., Tuesday	April 30
Memorial Day holiday	Monday	May 27
Spring commencement	Saturday	June 1
Classes end	10 p.m., Wednesday	June 19
Final exams	Thursday, Friday	June 20, 21

Summer 1996

Registration	Monday	June 24
Classes begin	7:30 a.m., Tuesday	June 25
Independence Day recess	10 p.m., Wednesday	July 3
Classes resume	7:30 a.m., Monday	July 8
Classes end	10 p.m., Wednesday	August 14
Final exams	Thursday, Friday	August 15, 16

INTRODUCTION

Oakland University is a comprehensive, state-assisted institution of approximately 13,000 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, Education and Human Services, Engineering and Computer Science, Health Sciences, and Nursing; 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 numbers more than 350, 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 nearly \$8 million. Studies in biological and physical sciences and nondestructive testing 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. A research Institute for Biochemistry and Biotechnology resides in the College of Arts and Sciences. 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 a comprehensive distributed environment involving 40 processors and several hundred microcomputers, linked by a fiber optic backbone.

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 brings a summer program of world-class entertainment to campus. 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 in suburban Oakland County, Michigan, 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 1,200 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 activities, 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 that 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 that 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 nontraditional 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.

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.

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) and courses in chemistry and physics and have 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 that includes courses in biology, chemistry and mathematics. A 3.0 must be earned in each of these courses.

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 they 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 (101 North Foundation 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 Office 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. Students transferring credits from foreign institutions may be requested to provide an evaluation of credit taken at foreign institutions. When the application is approved, the candidate will receive a certificate of admission and form I-20. These are to be used to apply for the appropriate visa. Prior to the student's official registration, proof of adequate medical insurance plus a signed authorization for emergency medical treatment must be on file in the university's Graham Health Center.

Students who are not U.S. citizens or permanent residents of the United States and are transferring from other institutions also must obtain an I-20 from Oakland University. Students requesting such transfers should consult with the foreign student adviser at their previous school and with the Handicapped and International Student Services Office (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. Tuition and fees for guest status will be assessed at undergraduate upper-division rates.

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 from the Office 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 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 of a student, once admitted, to provide complete application credentials prior to the closing of registration or failure to register for classes invalidates an application for admission. Reinstatement of such files must be requested in writing. The request must be received in the Office of Admissions by the closing date for applications for the semester students wish to enroll. Reinstatement may be for any term within one year of the original term of application. An additional application fee is not required for a first reinstatement within one year. Additional reinstatements do require a new application and fee. A new application and fee are also required after one year.

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, and in most cases, also for grades of "3." A statement of policy regarding credits given for particular examinations is available from the Academic Records Office (102 O'Dowd Hall, 370-3452).

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 accumulated less than 32 credits at the time of the examination and 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 that cover material comparable to Oakland University courses that 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 (121 North Foundation Hall, 370-3227).

Special opportunities for students

Oakland University offers students several unusual 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.

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.

Computing resources

A wide range of computing resources are available to students at Oakland University. At various locations on campus, students have ready access to both IBM-compatible and Apple computers. Also available are advanced workstations with graphics capabilities. These personal and other high-speed computers are connected in a network that is in turn linked to the international Internet computer network. In addition to the computers themselves, the university makes available to students high quality printing capability in several campus locations and an extensive collection of current software and applications. Thus, students have many opportunities to develop computer skills and extend their level of computer literacy.

Computer facilities are readily accessible to students at the Kresge Library computer laboratory and also in Dodge Hall and Varner Hall. Departmental facilities for students' use include a journalism lab in Vandenberg Hall, a language lab and a writing lab both in Wilson Hall and a mathematics lab in O'Dowd Hall. The Department of Computer Science also maintains a variety of computer equipment for student use in Dodge Hall.

The university is continually upgrading both computer hardware and software for students' use in courses, seeking to provide students with educational experiences involving state-of-the-art computing.

Study abroad

Under the sponsorship of the Center for International Programs, Oakland University students may avail themselves of seven different study abroad programs. Three programs are sponsored by the Midwest Consortium for Study Abroad. The Vienna Study Abroad Program, established in 1987, allows students to study for one or two semesters in Vienna, taking courses taught in English by American and Viennese faculty. The programs in Macerata, Italy, and Querétaro, Mexico, established in 1994, allow students to study one or two semesters in these respective cities, taking courses taught in English, and to live with either an Italian or Mexican family. 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 of the Japan Center for Michigan Universities in Hikone, Shiga Province, Japan, established in 1989, provides a year of study in Japan. All programs provide credits toward baccalaureate degrees. For additional information about these programs, see the Center for International Programs portion of the catalog. For information about additional study abroad opportunities, see the Modern Languages and Literatures section of this catalog.

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 1994-95 academic year unless otherwise indicated. The *Schedule of Classes* for each semester or session carries a listing of charges current at the time of printing.

All fees are assessed at registration and are payable in U.S. dollars. Non-payment of tuition and 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 and undergraduate college guest students.

Tuition

Michigan residents who register as lower-division undergraduates (fewer than 56 total credits) are assessed \$96 per credit. Upper-division undergraduates (more than 55 total credits) are assessed \$105.50 per credit. Graduate students are assessed \$178.50 per credit. All students who have not maintained Michigan residency for six consecutive months immediately prior to enrollment are assessed tuition at out-of-state rates: \$283 per credit for lower-division undergraduate students, \$305 per credit for upper-division undergraduate students and \$395 per credit for graduate students. All rates are subject to change.

General service fee

All students who register are assessed a \$100 general service fee each term, of which \$48 is non-refundable. In addition to funding the cost of registration and student records maintenance, this fee is also used to support such student services as the Oakland Center, Graham Health Center, athletics, as well as maintenance of campus parking lots, roads, and walkways.

Student activities fee

Students who register for on-campus credits are charged an activities fee of \$15.

Course fees

Course fees are charged for the following specialized courses:

EED 455 and SED 455	\$35
Applied music	
Individual instruction	\$85/1 credit, \$170/2-4 credits
Group instruction	\$25
IST 396, 492, 479, 594, 699; JRN 190, 200, 300, 310, 311, 312; LIN 315, PS 304, PSY 362, RDG 775, SOC 204, 403	\$36

And all courses in the following:

School of Business Administration	
School of Engineering and Computer Science	
School of Health Sciences	
School of Nursing	
Department of Mathematical Sciences	
Department of Chemistry	
Department of Physics	
Department of Biological Sciences	\$9 per credit

Course competency by examination fee

Students who register for degree credit by course competency examination are assessed \$50 per credit.

Late registration fee

Students registering during the late registration period are assessed an additional non-refundable late registration fee of \$35. 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.

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 \$10 per billing. Balances due paid by checks that are returned by the bank are considered non-payment and also will result in assessment of a \$15 fee.

Application fee

A \$25 fee must accompany all applications for admission to undergraduate degree programs for a particular term. The fee is \$30 for applications to graduate programs. If an applicant decides to reapply for a later term, a new application and additional fee must be submitted.

Readmission fee

Students applying for readmission to the university must complete readmission forms and pay the \$25 readmission fee. The readmission fee for graduate students is \$30. See *Readmission* for additional information.

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 \$30 (see *Undergraduate degree requirements*) by the deadline established in the *Schedule of Classes* for that semester or session.

Orientation and advising fee

A \$65 orientation and advising fee for freshmen (\$40 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. The rates for 1994-95 fall and winter terms combined are: \$4,030 for the 19-meal plan (\$4,014 for room and board and \$16 hall government fee), \$3,860 for the 14-meal plan (\$3,844 for room and board and \$16 hall government fee) and \$3,750 for the 9-meal plan (\$3,734 for room and board and \$16 hall government fee). Single rooms may be rented, as available, for an additional \$680.

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 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 tuition and fees

Students who withdraw from Oakland University or drop courses that reduce their total credit load may be eligible to receive a partial refund of tuition and fees. Failure to drop or withdraw formally will result in forfeiture of any refund. Official drops must be accomplished in person at the Registration Office (100 O'Dowd Hall). Withdrawals may be submitted in person, by fax (370-3461), or by certified mail to this office. See also *Adjusting courses (add and drop)*. The date that notification is received in the Registration 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 *Focus on Financial Aid* pamphlet, which is provided to financial aid recipients and available to others upon request.

Refund checks will be mailed approximately two weeks after a withdrawal has been filed with the Registration 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 Office of the Vice President for Academic Affairs,

205 Wilson Hall. The student shall complete the application and list in detail the reason(s) he or she is a bona fide domiciliary of Michigan, attach documentary data in support thereof, and return the application to the Academic Affairs office 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, 205 Wilson 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 Federal Pell Grant program, the Federal Supplemental Educational Opportunity Grant program, the Federal Perkins Loan program, the Federal 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 William D. Ford Federal Direct Loan program and the William D. Ford Federal Direct PLUS program. In addition, the Financial Aid Office certifies eligible veterans, dependents and reservists for education benefits.

Financial aid application procedures

A Free Application for Federal Student Aid (FAFSA) or a renewal FAFSA should be completed and mailed for processing as soon as possible after January 1. When processing is completed, a Student Aid Report (SAR) will be mailed directly to the applicant. 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: the Federal Pell Grant program, the Federal Supplemental Educational Opportunity Grant program, the Federal Perkins Loan program, the Federal College Work Study program, the William D. Ford Federal Direct Loan program, the William D. Ford Federal Direct PLUS program, Michigan Competitive Scholarships, Michigan Educational Opportunity Grants, Michigan Adult Part-time Grants, Michigan Work Study, Oakland University Grants and Oakland University Institutional Scholarships.

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.
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. These students must maintain a cumulative GPA of at least 2.00.

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. The Office of Graduate Study determines and monitors progress and GPA requirements for graduate students.

A student becoming ineligible for aid because of failure to make satisfactory progress must complete enough credits at his/her own expense to make up any deficiency. The student may then reapply for financial aid.

If unusual circumstances prevent a student from making satisfactory academic progress, an appeal may be filed with the Academic Progress Review Committee. The committee will review the student's academic history, evaluate the reasons for requesting the exception, and consult with the student's academic adviser before making a decision to grant or deny a request.

If the Academic Progress Review Committee denies a request for exception, an appeal may then be made to the Dean of Students. The dean may consult the committee, advisers, counselors and other persons at the university whose advice would assist in determining the most equitable decision. The decision of the Dean of Students is final.

Short-term loans

Short-term no-interest loans of up to \$200 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	Piety Hill Chapter of the Daughters of the American Revolution of Birmingham Loan Fund
Civitan Loan Fund	
H. H. Corson Loan Fund	Mark Platt Memorial Loan Fund
Kenneth B. Covert Jr. Memorial Loan Fund	Pontiac Kiwanis Club Loan Fund
Pat Dandurand Memorial Loan Fund	David R. Robson Memorial Loan Fund
Greater Pontiac Centennial Student Loan Fund	Li Russ Student Loan Fund
W. Everett Grinnell Loan Fund	Joan Selby Memorial Loan Fund
John Maoshing Han Loan Fund	Paul Solonika Loan Fund
C. Allen Harlan Loan Fund	William Spickler Memorial Loan Fund
George N. Higgins Loan Fund	Student Activities Coordinating Council Loan Fund
Insurance Women of Detroit, Inc., Loan Fund	Henry Tiedemen Loan Fund
Lathrup Village Woman's Club Fund	Warren Tope Memorial Loan Fund
Barbara Joan Liddell Memorial Loan Fund	Michael Werenski Memorial Loan Fund
John A. MacDonald Loan Fund	Walter K. Willman Loan Fund
James Mangrum Loan Fund	Women's Literary Club of Pontiac Loan Fund
Kenneth A. Meade Memorial Loan Fund	
Oakland County Engineering Society Loan Fund	
Oakland University Alumni Loan Fund	
Eric Pelzner Memorial 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 April 1.

Following is a list of the scholarships awarded to new incoming students by the Office of Admissions.

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 may be renewed for a maximum of eight semesters as long as a 3.25 GPA is maintained.

Anibal Excellence Scholarship: Recognizes superior academic performance of entering high school students. Applicants must have a minimum 3.50 high school GPA. Scholarships may be renewed for a total of eight semesters as long as a recipient maintains a cumulative 3.25 GPA.

Auburn Hills Scholarship: Three scholarships in the amount of tuition and fees awarded annually to students graduating from high schools serving the City of Auburn Hills. The awards are based on academic excellence and are renewable.

Florine Trumbull Scholarship: Recognizes academic achievement of entering students. Recipients must be graduates of Michigan high schools. Scholarships may be renewed for a total of eight semesters as long as the recipient maintains a 3.00 GPA.

Isaac Jones Memorial Scholarship: Awarded to an academically promising student from Pontiac. The scholarship 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 may be renewed for a total of eight semesters as long as a recipient maintains a 3.25 GPA and continues to major in the sciences.

Oakland University 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 may be renewed for an additional year (fall and winter semesters). Students must maintain a 3.00 GPA.

Oakland University Competitive Scholarship: Awarded to freshmen based on high school grades. Scholarships may be renewed for a total of eight semesters as long as a 3.00 GPA is maintained.

Oakland University Diversity Scholarship: Recognizes academic performance of entering high school students. Students must have a minimum 3.30 GPA. Scholarships may be renewed for a total of eight semesters.

Oakland University Engineering Scholarship: Awarded to entering engineering students and based on a minimum 3.50 high school GPA and scores on a standardized test. Scholarships may be renewed for a total of eight semesters as long as a recipient maintains a 3.00 GPA and continues to major in engineering.

Oakland University Foundation Scholarship: Awarded each year to 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 may be renewed for a total of eight semesters as long as a cumulative GPA of 3.25 is maintained.

Oakland University 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. Scholarship amounts vary 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 Presidential Scholarship: Awarded each year to high school students in recognition of outstanding academic achievement and citizenship. Applicants must have a minimum 3.50 high school GPA and be interviewed by a university representative. The scholarships may be renewed for a total of eight semesters.

Oakland University 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 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; 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.

Ben and Virginia Hawkins Scholarship: Awarded each year to a student of outstanding promise performing in the Meadow Brook Estate as selected by the Department of Music, Theatre and Dance.

George and Elizabeth Pyle Seifert Merit Scholarship: Awarded each year to a student of outstanding promise performing in the Meadow Brook Estate as selected by the Department of Music, Theatre and Dance. The recipient must be a departmental major.

Gittlen Award for Achievement: Awarded annually to two seniors who have been active in the theatre as selected by the Department of Music, Theatre and Dance.

Jacob Decker Dance Award: Awarded each year to a student of dance as selected by the Department of Music, Theatre and Dance.

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

Mary Bonnell/Meadow Brook Theatre Scholarship: Awarded to an incoming student with an exceptional interest in theatre. Selected jointly by Meadow Brook Theatre and the Department of Music, Theatre and Dance.

Meadow Brook Estate Scholarship: Awarded each year to students performing in the Meadow Brook Estate. Recipients are selected by the Department of Music, Theatre and Dance.

Oakland University Service Awards: 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.

Philip M. Cherven Memorial Endowment: Awarded each year to a student majoring in music 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 performing in the Meadow Brook Estate as selected by the Department of Music, Theatre and Dance.

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.

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.

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.

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.

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.

Campus Activity Award: Ten awards of \$1,000 are given annually to students either elected or appointed to positions within the University Student Congress and the WXOU radio station. Up to seven additional awards are given for individualized leadership projects through the Dean of Students Office. Students must meet financial aid Satisfactory Academic Progress standards, be enrolled full time (at least 12 credits), and be elected or appointed to the position(s) having the awards attached to them. Information concerning these awards is available from the Student Life and CIPO offices.

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.

Charles and Eunice Giffhorn Accounting Scholarship: This \$1,000 scholarship was created in honor of Charles and Eunice Giffhorn and is intended for an upper-division student majoring in accounting who is academically sound and can demonstrate financial need.

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.

Comerica Bank Diversity Scholarship: These \$3,000 tuition scholarships were established to support disadvantaged students. Applicants should have junior standing, a GPA of 2.60 or above and show financial need and disadvantaged status. Community involvement and leadership capabilities will be considered. Four scholarships will be awarded annually, two at the junior level and two at the senior level. Minorities are encouraged to apply. Applications are available from the School of Business Administration in February; the deadline is April. Selection is made by the SBA Scholarship Committee.

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.

Dicron Tafraian Memorial Scholarship: Awarded annually to an accounting major in recognition of academic excellence and involvement in extracurricular and community activities. The recipient is selected by the Accounting Scholarship and Award Committee. Applications are available from the School of Business Administration.

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.

EDS Corporation Scholarship: Two scholarships of full tuition awarded annually. One scholarship is awarded to a senior in the Management Information Systems program in the School of Business Administration. The other is awarded to a senior in the School of Engineering and Computer Science. Recipients are selected by faculty committees in each school.

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.)

Fidelity Bank Scholarship: This scholarship was established to assist financially disadvantaged students pursuing careers in all fields of business administration. A preference will be given to those with an interest in a career in banking. Candidates must be full time students, have achieved junior standing and have a GPA of 2.60 or above. This is a one-year, \$2,500 scholarship for tuition and books. Applications are available from the School Business Administration in February; the deadline is April. Selection is made by the SBA Scholarship Committee.

Frederick G. Kaviuk Scholarship: Two \$1,500 scholarships awarded annually to students with an interest in Slavic studies. Application information is available from the Office of the Dean of the College of Arts and Sciences.

Golden State Minority Foundation Scholarship: Applicants with junior or senior status must have a 3.00 GPA and show financial need and disadvantaged status, as well as leadership capabilities and community involvement. Minorities are encouraged to apply. Applications are available from the School of Business Administration in December; the deadline is February. Selection is made by the Golden State Minority Foundation.

Harry Cunningham Scholarship: This \$2,500 scholarship is for a student interested in the retailing field with a desire to pursue employment with a major retailing establishment, such as the Kmart Corporation. Candidates must be enrolled full time, have junior standing and have a GPA of 2.60 or above. Applications are available from the School of Business Administration in February; the deadline is April. Selection is made by the SBA Scholarship Committee.

History Department Scholarship: Two annual scholarships awarded to qualified students majoring in history. The George T. Matthews Scholarship in History provides a stipend of \$1,000. The Oakland University Foundation Matthews Scholarship in History carries a stipend of \$1,250.

Honors College Scholarship: Awarded to a first-time-in-any-college student 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.

Howard and Howard Fund Scholarship: Awarded annually to an upper-division student planning to pursue a career in law. The amount of the scholarship is \$1,500. The recipient is selected by the faculty of the Department of Political Science.

ITT Automotive Scholarship: Four scholarships of \$5,000 each awarded to disadvantaged students majoring in engineering. Scholastic achievement and involvement in the university community are considered in selecting the recipients. Information is available from the School of Engineering and Computer Science Undergraduate Advising Office.

J. Alford Jones Memorial Scholarship: Awarded each year 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 amount of the scholarship is \$2,000.

James Morrison Thompson Chemistry Scholarship: Tuition awards available each semester to qualified students who elect undergraduate research in chemistry. Recipients are chosen by the faculty of the Department of Chemistry.

Lambda Chi Omega Award: Awarded annually to an Oakland County resident who is a non-traditional student with family responsibilities. Applications are available in February from the Financial Aid Office. One award of \$250 is offered.

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.

Mary Kirachuk Scholarship: Two \$1,500 scholarships awarded annually to students with an interest in Slavic studies. Application information is available from the Office of the Dean of the College of Arts and Sciences.

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.

Oakland Bar-Adams Pratt Foundation Scholarship: Awarded annually to a student planning to pursue a career in law. The recipient is selected by the faculty of the Department of Political Science. The amount of the scholarship is \$500.

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 Executive Association Scholarship: This scholarship was established to assist an Oakland County scholar. Candidates must be both scholarly and civic minded, be full-time students, have achieved junior standing, have a GPA of 3.00 or above, be current residents of Oakland County and show university/civic involvement. This is a one-year, \$2,500 scholarship for tuition and books. Applications are available from the School of Business Administration in February; the deadline is April. Selection is made by the SBA Scholarship Committee.

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.

Paul Lorenz/Texas Instruments Scholarship: Awarded annually to the student in the School of Business Administration who has achieved the highest grade point average at the completion of his/her junior year. The scholarship covers full tuition up to a maximum of 32 credits.

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.

Roger and Helen 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.

Safety Engineering Laboratory Scholarship: A scholarship of \$1,200 awarded annually to a student majoring in Industrial Health and Safety. Information is available from the Department of Industrial Health and Safety.

Siemens Automotive Scholarship: Two scholarships of \$3,500 each awarded annually to upper-division students who have achieved outstanding academic performance. Proficiency in a second language is also considered in selecting the recipients. Recipients must be willing to commit to working as an intern at any Siemens facility worldwide. Information is available from the School of Engineering and Computer Science Undergraduate Advising Office.

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: Scholarships of \$500 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.

Volkswagen of America Leadership Scholarships: These \$2,700 renewable tuition scholarships have as their aim the creation of a diverse student body. Candidates for these scholarships are incoming freshmen who are residents of Detroit and/or attended school there. A preference is given to students who participated in and met or exceeded Detroit Compact program standards. Financial need is a major factor in the awarding of these scholarships. Minorities are encouraged to apply. Inquiries should be directed to the School of Business Administration.

William Morris Scholarship: Awarded to upperclass undergraduate students in recognition of academic excellence. Scholarships are in the amount of \$1,500 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 2.50. The scholarship ranges from \$500 to \$1,500 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	Oakland University Women's Club
Campbell-Ewald Scholarship Fund	Scholarship Fund
Raymond Cullen Jr. Memorial Scholarship Fund	Village Women's Club of Birmingham
George H. Gardner Scholarship Fund	Scholarship Fund
C. Allen Harlan Scholarship Fund	Ruth E. Wagner Scholarship Fund
Herbert M. Heidenreich Scholarship Fund	A. Glen Wilson Scholarship Fund
Ormond E. Hunt Scholarship Fund	Matilda R. Wilson Memorial Honor
Harry A. MacDonald Memorial Scholarship Fund	Scholarship Fund
Mildred Byars Matthews Memorial Scholarship Fund	Thomas E. Wilson Scholarship Fund

Student Affairs and Services

The Division of Student Affairs provides an array of out-of-class support services, leisure activities and educational programs that complement and enhance students' educational

experiences. The office of the vice president for student affairs is located in 157 North Foundation Hall (370-4200). Brief descriptions of services for students follow.

Academic Skills Center

The Academic Skills Center (100 North Foundation Hall, 370-4215) offers *free* peer tutoring. Tutoring is available by appointment, and walk-in tutoring is available for some mathematics courses. In both cases, the sessions may be group sessions.

The center also offers Supplemental Instruction (SI) for some courses. This program provides organized study sessions two or three times a week to students enrolled in specific SI sections of courses. SI sessions focus on course-specific study skills that help students review notes, understand and apply key concepts, prepare for tests and develop critical reasoning skills. Attendance at these sessions is voluntary.

In addition to tutoring and SI, the center coordinates the Brown Bag Study Skills Seminars presented by Oakland University faculty and staff. Study skills handouts from the seminars and videotapes and audiotapes further support development of effective study strategies. To complement this series, computer-aided instructional materials are available in the center in academic disciplines and in study skills, as well as in reading comprehension, analysis and speed.

The Enhanced Studies Program (ESP) housed in the center focuses on increasing the academic success rate for regularly admitted, under-represented students of color in business, engineering, mathematics and science. The program incorporates collaborative learning, intensive faculty-student interaction, peer tutorial support and motivational seminars on study skills, college transition, life skills and career awareness.

The center staff also monitors the progress of students in Dismissal Option Status (DOS) and works with other students in academic difficulty through the Probation Outreach Program. Both of these programs provide advising referrals for students.

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

Campus Information, Programs and Organizations (CIPO)

Many students desire to achieve personal goals while pursuing extracurricular educational experiences. Approximately 80 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 the use of typewriters, Macintosh computers, lockers and information about off-campus housing resources and transportation. In addition, CIPO's service window staff provides sign up lists and tickets for some campus and community events, photo processing and cross-country ski rental.

The CIPO programming team provides noon 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 Blood Drive, Homecoming and African-American Celebration Month.

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.

Opportunities to participate in performance groups are abundant. The Department of Music, Theatre and Dance offers courses open to all students, usually by audition, which include Afram Jazz Ensemble, Oakland Chorale, Concert Band, Meadow Brook Estate, University Chorus, Community Chorus, Pontiac-Oakland Symphony, Vocal Jazz Ensemble, African Drumming

Ensemble and the Oakland Dance Theatre. Auditions are held regularly for the department's theatrical productions. All of the department's activities are available for academic credit.

Child care

The School of Education and Human Services operates the Matthew Lowry Early Childhood Center for students, faculty and staff with child care needs. The center houses three programs (preprimary, preschool and toddler) and is located at Adams and Butler roads at the southeast corner of the campus (370-4100).

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

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, attempting 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.)

Cooperative Education

Cooperative Education (366 West Vandenberg Hall, 370-3253) is an academic program offered by the Department of Placement and Career Services 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 per week) and simultaneously carry about half the normal course load.

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

Counseling Center

The Counseling Center (Graham Health Center, 370-3465) provides counseling, psychotherapy, testing and consultations to university students.

The personal counseling and psychotherapy services provide treatment for relationship difficulties, depression and anxiety, stress disorders, underachievement and child, family or marital problems. Evaluations regarding learning problems or disabilities are available through the psychological testing services. For students with drug or alcohol problems, counseling, assessment and referral services are available. Specialized counseling is also available for family members of substance abusers. Career testing and counseling help students to identify potential career majors or educational directions through the clarification of their abilities, interests and personal needs. Specialized loss and trauma counseling is available to help students overcome the emotional effects of such experiences.

Strict rules of confidentiality are observed. No notation is made in any university record regarding a student's voluntary use of clinic services.

All services are available at nominal cost to full-time students. Part-time students and community members are charged on a sliding scale according to their income. Students may contact the center directly.

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 serves as an advocate for students facing academic, financial and personal problems while enrolled at Oakland University. The Office of the Dean of Students is located in 144 Oakland Center (370-3352).

Handicapped Student Services

Advocacy and support services are provided through the Office of Handicapped and International Student Services located in 144 Oakland Center. Services include priority registration, reasonable classroom accommodations, special testing arrangements, help in identifying sign language interpreters and readers and note takers, some equipment loans, referral services to outside agencies, and assistance with general needs and/or concerns. Students with special needs are encouraged to utilize the services provided. Anyone requiring additional information may contact the office at 370-3266 (voice) or 370-3268 (TDD).

Health Services

Oakland University students, faculty and staff may receive medical services at the Graham Health Center, (370-2341). Services include management 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/nurse practitioner 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.

International Student Services

Services are provided for international students, exchange visitors, and scholars by the Office of Handicapped and International Student Services located in 144 Oakland Center. Assistance includes help in preparing documents for the U.S. Immigration and Naturalization Service, sponsoring agencies and home country governments; arranging insurance coverage; orientation and other programs. International students are required to meet with a staff member prior to registration. Any international student and/or exchange visitor requiring assistance may contact the office at 370-3266.

Internship Program

Matching the employment needs of Oakland County with the interests of students, the Oakland University Student Internship Program of the Department of Placement and Career Services (373 West Vandenberg Hall, 370-3213) is designed to be a shared-learning, paid work experience. Internships provide opportunities for students to gain professional-level experience prior to graduation. 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.

Oakland Center

The Oakland Center is the hub of campus activity. The building is open seven days a week. Provided in this facility are dining services, including restaurants, a cafeteria, catered services, and vending machines; the University Bookcenter; study area; lounges; a games room with table tennis, pool tables and video games; meeting rooms and multipurpose space, including exhibit areas, to accommodate events for 10-800 people; change making machines; public telephones; a TV lounge; newspaper vending machines; and a U.S. Postal Convenience Center.

Also located in the Oakland Center are the offices of Student Life, CIPO, student organizations, University Congress, the *Oakland Post* (campus newspaper) and WXOU (campus radio station).

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.

Orientations are also held for the parents of new freshman students.

A non-refundable fee 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. For further information, contact the Office of Orientation and Placement Testing, 134 North Foundation Hall (370-3260).

Placement and Career Services

The Department of Placement and Career Services (275 West 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.

The department library also includes 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).

The office provides direct access to job opportunities through on-campus interviews, job referral activities, posted job notices and a bi-weekly job vacancy bulletin. Resume Expert Plus, a computerized software system, is used to register students and alumni for referral and recruiting and to produce a professional looking resume. Individual placement advising and career information are available to both students and alumni, including walk-in advising during designated hours.

Placement Testing

The Department of Orientation and Placement Testing offers placement tests that 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, rhetoric (reading comprehension and writing). A biology test is also available for nursing majors only.

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

The department offers evening placement tests weekly throughout the fall and winter semesters on an appointment basis. Respective departments also offer testing on an individual basis, usually by appointment. For more information, contact the Department of Orientation and Placement Testing, 134 North Foundation Hall (370-3260).

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.

Residence Hall Facilities

Oakland University's residence halls offer a special way of life for approximately 1,200 students each year: the chance to live with different people, develop social and leisure interests, begin lifelong friendships and become involved as a student leader. Many students find it a rewarding experience, helping to further academic success.

Oakland's six residence halls each have a distinct character and are situated only a five-minute walk from classrooms, the library, or recreational facilities.

There are many hall features, some of which include: staff who work and live in each hall, complete laundry facilities, reception desk and mail service, aerobics and weight rooms, meal plans to fit student lifestyles, a computer lab, academic support groups, programs and workshops. The residence halls offer a variety of living options including a wellness hall, scholars' tower, an upper-division hall and 24-hour quiet floor.

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. Marriott's food service staff prides itself on delicious food preparation and menu variety. From daily meals to special "theme" dinners, the all-you-can-eat philosophy means no one goes away hungry, whether students select a 9-, 14- or 19-meal-per-week plan, or a declining balance meal plan.

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 unmarried students are required to live in a residence hall unless they have earned 59 credit hours or can document that they live with a parent or legal guardian. 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.

For more information, please write to the Department of Residence Halls, 448 Hamlin Hall, Oakland University, Rochester, MI 48309-4401 or call 370-3570 or fax to 370-3340.

Special Programs

The Department of Special Programs (375 West Vandenberg Hall, 370-3262) provides academic guidance, counseling and other support services for students selected to participate in the Academic Opportunity Program (AOP). The primary purpose of the AOP is to assist eligible students in attaining a college degree. Retention and graduation rates for AOP students are a model for similar programs in the State of Michigan.

The department administers the Summer Institute, an eight-week residential program of credit-bearing courses, peer counseling, study skills seminars, tutorial assistance, leadership

development and cultural activities, all of which are designed to maximize students' chances for a successful undergraduate experience. After completing the Summer Institute, AOP students are provided with a comprehensive network of university services including mentoring, graduation advising, professional counseling and personal growth seminars, in a friendly, supportive atmosphere.

The department is staffed by administrators, professional counselors, counselor assistants and tutors, who work closely with AOP students throughout their years at Oakland University.

Testing services

The Department of Academic Services and General Studies (121 North Foundation Hall, 370-3227) administers the ACT, CFP, GMAT, GRE, LSAT, MCAT, NBCC and Miller Analogies Test. Information and materials on these tests are available from the department office.

Pre-College Programs

The Office of Pre-College Programs (100T North Foundation Hall 370-4455) provides a variety of services to middle school and high school students in the metropolitan area that reinforce the importance of adequate preparation for higher education. These services include the King/Chavez/Parks College Day Program, the Wade H. McCree, Jr. Incentive Scholarship Program, the Detroit Compact, the Forward Bound Program and Project Upward Bound.

Office of Equity

The Office of Equity develops and implements strategies and programs in an effort to increase the recruitment, retention and graduation of racial and ethnic minority students. This office seeks to increase the academic and social success of minority students. The office assists individual students and organizations in solving university related problems. It works to develop a campus climate that is sensitive and responsive to the issues of racial and ethnic diversity at Oakland University. The Office of Equity is located in 106 North Foundation Hall (370-4404).

Office of Graduate Study

Dean: *George Dahlgren*

Office of the Dean: *Claire K. Rammel, 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 objectives. 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.

Qualified undergraduate students, with the concurrence of their academic adviser and prior written permission from the department chair and the course instructor, are encouraged to take graduate courses numbered 500-599.

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 or the Office of Graduate Study (520 O'Dowd Hall, 370-3168).

Graduate degree programs

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

Education Specialist: school administration

Master of Arts: counseling, English, history, linguistics, mathematics

Master of Arts in Teaching: reading and language arts

Master of Business Administration

Master of Education: curriculum, instruction and leadership; early childhood education; special education

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, engineering management, exercise science, industrial applied mathematics, mechanical engineering, physics, systems engineering

Master of Science in Nursing: nursing administration track, adult health track, nurse anesthetist track

Graduate certificate programs

Statistical methods

Microcomputer applications in education

Orthopedic manual physical therapy

Post master's certificate in reading, language arts, and literature

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

Full-time professional academic advisors are available to students in each of the schools, the College of Arts and Sciences and the Academic Services Office. Faculty advisors are also available in many 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 decided on a major. 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 students who wish to explore careers, including career counseling, computerized career guidance systems (SIGI and DISCOVER) and a variety of written materials. 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 50 minutes of scheduled instruction each week plus the estimated time required in outside preparation. Most Oakland University courses are 4 credits. 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 with an approved Petition of Exception.

Class standing

For purposes of registration and tuition and fees, class standing is set at the following numbers of credit hours: students have freshman standing through completion of 27 credit hours, sophomore standing through completion of 55 credit hours, junior standing through completion of 90 credit hours, and senior standing when they have completed 91 credit hours or more.

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 the second.
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 cannot be used to satisfy minimal graduation requirements in any academic program.** These courses are included in students' grade point averages. Course numbers 050-099 are for courses specially designed to enrich academic skills. No 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 chair and the course instructor. Only graduate students are eligible to elect 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 they are 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 academic unit 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 degree credit.

Course competency

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

1. That they register for the course at registration with written permission of the departmental chairperson, dean or program director of the academic unit responsible for the course.
2. That they pass an appropriate competency examination not more than six weeks after the term begins. Competency credit will not be permitted for a course when a student has received credit for more advanced courses in the same area. The repeat course rule applies to the repeating of competency examinations (see below).
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. Students seeking second degrees are limited to 16 credits of non-classroom experience.

Adjusting courses (drop and add)

If students decide not to complete a course, the course may be dropped without academic penalty through the ninth week in 14-week courses and the fifth week in seven-week courses. Courses dropped for which students wish to claim either fee cancellation or refund of fees 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 tuition and fees*). Failure to drop a course through the Registration Office on or before the official withdrawal date may result in the recording of a 0.0 grade on a student's record.

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. A non-refundable late add fee of \$10 per course is assessed after the end of the second week of classes (first week of spring or summer sessions).

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 drop/add period has ended for a given semester (two weeks into the term) or session (one week into the term).
4. Students who wish to audit courses must have been admitted to the university by the Office of Admissions.
5. Students whose entire registration for a semester or session consists of formal audits must register during late registration. Late registration fees will be waived for such students.

Repeating courses

Students may repeat a course up to two times (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.** Transcripts will show the grade for each attempt and will indicate that the course has been repeated. 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 term 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 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 undecided status 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 advising offices. 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 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 non-academic 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, students must satisfy the following requirements:

1. **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; inter-

national studies; social science; mathematics, logic and computer science; and natural science and technology. (See course listings below.) 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.

2. **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 160 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 160. Those with fewer than 3 credits must take the placement examination.
 - c. By demonstrating superior writing skills in a student-initiated proficiency examination administered by the Department of Rhetoric, Communication and Journalism. This examination is offered throughout the academic year; students should contact the department (370-4120) or the Department of Orientation and Placement Testing (370-3260) for a current testing schedule. Students may not repeat the proficiency examination.
 - d. By petitioning the Proficiency Committee of the Department of Rhetoric, Communication and Journalism with a writing portfolio, including three single-author, original, graded papers that the student has written to meet class requirements at Oakland University. One of these papers must be research writing that demonstrates competency in a standard system of documentation (preferably MLA or APA). The student must also write and include a cover letter or essay that both requests exemption from RHT 160 and also explains how the documents in the portfolio demonstrate achievement of the stated goals of RHT 160 (see the course description).
3. **Ethnic diversity:** Before graduation all students must acquaint themselves with American ethnic diversity by taking at least one course designated as exploring the implications of the discipline for ethnic perspectives and interrelationships. These issues will be addressed over at least three weeks in each such course. Oakland University courses approved as meeting the ethnic diversity requirement are listed on a following page and are also indicated in the course sections of this catalog under the appropriate academic units. These courses may be used also to meet general education, major, minor, distribution, concentration, elective credit or other degree requirements.
 4. **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, 370-3227).

5. **Application 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).
6. **Residence requirement:** Students must successfully complete a minimum of 32 credits at Oakland University. They must also complete at Oakland University the last 8 (4 for Bachelor of General Studies designation) credits needed to fulfill the requirements for a baccalaureate.
7. **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.
8. **Upper-level credit requirement:** 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.

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 1995-96 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
AH 104	Introduction to the Arts of Asia and the Islamic World
CIN 150	Introduction to Film
DAN 173	Dance History and Appreciation
MUS 100	An Introduction to Music
MUS 250	World Music Survey
MUS 320	Western Music History and Literature
THA 100	Introduction to Theatre
THA 301	Theatre History I
THA 302	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 112	Literature of Ethnic America
ENG 224	American Literature
ENG 241	British Literature
ENG 303	Fiction
ENG 305	Bible as Literature (identical with REL 311)
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 and Chinese Culture
FRH 114	Introduction to French and French Culture
GRM 114	Introduction to German and German Culture
HIU 114	Introduction to Hindi and Urdu Languages and Culture
IT 114	Introduction to Italian and Italian Culture
JPN 114	Introduction to Japanese and Japanese Culture
LIN 207	Semantics (identical with COM 207)
LIN 215	Natural and Artificial Languages* (identical with CSE 215)
RUS 114	Introduction to Russian and Russian Culture
SPN 114	Introduction to Spanish and Spanish Culture

*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 Before 1877
HST 115	Introduction to American History Since 1877
HST 210	Science and Technology in Western Culture
HST 292	History of the African-American People
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	Human and Cultural Evolution
AN 102	Culture and Human Nature
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	Natural and Artificial Languages* (identical with CSE 215)
MTH 118	Mathematical Sciences in the Modern World
MTH 121	Linear Programming, Elementary Functions
MTH 122	Calculus for Social Sciences
MTH 154	Calculus I
PHL 102	Introduction to Logic
PHL 202	Introduction to Symbolic Logic
STA 225	Introduction to Statistical Concepts and Reasoning
STA 226	Applied 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 111	Biology
BIO 113	Biology
BIO 300	Biology and Society
CHM 104	Introduction to Chemical Principles
CHM 144	General Chemistry
CHM 164	General Chemistry: An Advanced Introduction
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	General Physics I
PHY 104	Astronomy: The Solar System
PHY 105	Astronomy: Stars and Galaxies
PHY 106	Earth Sciences
PHY 107	Physical Geography (identical with GEO 107)
PHY 125	The Physics of Music
PHY 127	Human Aspects of Physical Science
PHY 151	Introductory Physics I

ETHNIC DIVERSITY REQUIREMENT:

Each candidate for an Oakland University baccalaureate is required to take at least one course designated as exploring the implications of the discipline for ethnic perspectives and interrelationships. Oakland University courses meeting this requirement are listed below; those identified with an asterisk (*) also satisfy a general education requirement. Students using this catalog to meet the ethnic diversity requirement may also use any course subsequently approved by the Committee on Undergraduate Instruction and published in a later catalog. If a course listed below is completed and is subsequently removed from the list of approved courses in later catalogs, it may still be used to meet the ethnic diversity requirement by students following the 1995-96 catalog. Approved courses will be indicated in the *Schedule of Classes* published for each term.

College of Arts and Sciences

AH 308	North American Indian Art
AH 350	American Art
AH 352	African-American Art
ALS 374	Cross-Cultural Communication (identical with AN 374/COM 374)
ALS 375	Language and Culture (identical with AN 375)
AMS 300	American Culture
* AN 102	Culture and Human Nature
AN 331	Racial and Ethnic Relations (identical with SOC 331)
AN 381	Peoples of North America: Indians and Inuit (Eskimos)
* CIN 150	Introduction to Film
* ENG 112	Literature of Ethnic America
ENG 341	Selected Ethnic Literature
ENG 342	The Black Experience in Literature

* HST 114	Introduction to American History before 1877
* HST 115	Introduction to American History since 1877
* HST 292	History of the African-American People
HST 301	History of American Cities
HST 319	History of the American South
HST 323	Topics in African-American History
HST 361	History of American Families (identical with WS 361)
HST 362	History of African-American Women (identical with WS 362)
HST 366	Slavery and Race Relations in the New World
HST 367	History of Mexico
LIN 303	Sound Patterns of American English
* PS 100	Introduction to American Politics
PS 203	The Politics of Race and Ethnicity

School of Business Administration

ECN 201	Principles of Microeconomics
MKT 404	Consumer Behavior
ORG 434	Management of Human Resources

School of Education and Human Services

EED 470	Teaching Social Studies in the Elementary School
HRD 367	Cultural Diversity in the Workplace
RDG 331	Teaching of Reading
RDG 338	Teaching Reading in the Content Area
RDG 538	Guiding Reading-Learning in Content Subjects

School of Health Sciences

HBS 200	Health Care Dimensions
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School of Nursing

NRS 205	Health Assessment
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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 of Arts and Bachelor of Science) or be earned in separate academic divisions (for example, the College of Arts and Sciences and the School of Engineering and Computer Science).

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 the university-wide general education, ethnic diversity and writing proficiency requirements, and all other 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.

Alternately, students may enroll as post-baccalaureate students and have completion of an additional major recorded on the transcript. Such students must meet all requirements for the 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.

Students holding baccalaureate degrees with acceptable majors may earn teacher certification in secondary education by being admitted to this program at Oakland University with second degree status. For a description of this program, refer to *Secondary Education*, School of Education and Human Services.

Petition of exception

Any student may request a waiver or modification of specific academic requirements. The request should be made on a Petition of Exception form available 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 body. The student, the registrar and the student's academic adviser or major department will receive a copy of the petition showing 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

Students planning to transfer to Oakland University should observe the transfer credit limit described under *Transfer principles*.

Transfer students may enter Oakland University at the beginning of any semester or session and should contact the Office of Admissions (101 North Foundation 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 24 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 to Oakland University an application and admission fee and official transcripts of all previous college-level work.

Students whose prior academic experience includes coursework completed outside the United States or Canada must also provide an evaluation from a credentials evaluation service. For additional information or a list of such services, contact the Admissions Office.

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 and General Studies (370-3227).

Transfer practices

When students enter Oakland University, the Academic Records Office evaluates all course work previously completed with a C or equivalent grade at regionally accredited post-secondary institutions. 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 subsequent program requirements at Oakland University. Credits are granted for courses taken at other regionally accredited post-secondary institutions in accordance with the transfer policies of this university and 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 Michigan community colleges. For most local community colleges, the university has prepared course equivalency guides that 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.

Study at a foreign university

Oakland University students who enroll directly in foreign universities may, upon their return, request academic credit. Such students must provide documentation of the content and scope of the work completed as well as official evaluations of academic performance. Students who anticipate requesting credit for foreign study should contact the Academic Records Office (102 O'Dowd Hall) in advance of enrolling in a foreign university.

Transfer principles

Community college transfer credit limit (generally 62 credits)

Students may transfer applicable community college credits at any time during their course of study. However, at least one-half of the credits required for completion of a specific baccalaureate degree program must be from regionally accredited four-year institutions, with at least 32 credits earned at Oakland University.

Upon a student's initial entry to the university (or upon readmission after a lapse of six years or more), courses taken at a two-year institution may be accepted to satisfy requirements even though the rule limiting community college credit transfers to one-half of the total may prevent the acceptance of any credits from such courses. A continuing student at Oakland University who has reached this credit limit may not apply toward the baccalaureate degree any more courses or credits from a two-year institution.

Principles concerning the MACRAO agreement

Oakland University participates in the Michigan Association of Collegiate Registrars and Admissions Officers (MACRAO) Articulation Agreement. This agreement allows transfer students to satisfy the university's general education requirements except as noted below. Students enrolling under terms of the MACRAO agreement must complete eight additional credits of general education because courses in English composition that have been taken previously will be applied to Oakland University's writing proficiency requirement and not to general education requirements. Students must meet with an academic advisor to plan the additional general education courses. Under this agreement, transfer students from participating Michigan public community colleges must present a transcript bearing the "MACRAO Agreement Satisfied" stamp for review.

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; 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.

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 that 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. ("No-record" means that there will be no transcript notation showing enrollment in the course.) 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-record 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. 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 school or college or other appropriate administrator. 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.
 - 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 school or college 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 and instructor permission are both required, and it is understood that no credit for the course is intended to be earned 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 external purposes:

3.6-4.0 — A	2.0-2.9 — C
3.0-3.5 — B	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 be counted only as 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 end of the late registration period 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 a U will appear on the student's official grade report 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). Final grade 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 to: 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) and the address to which the transcript is to be sent.

A check or money order of \$5 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), a Perkins Loan 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. The dean of students is the university compliance officer for the Family Educational Rights and Privacy Act.

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.

The university considers student theses and dissertations to be public statements of research findings. Therefore, students who submit such work in fulfillment of degree requirements shall be deemed to have consented to disclosure of the work.

A full statement of students' rights is available in the Office of the Dean of Students (144 Oakland Center, 370-3352). Any questions, grievances, complaints or other related problems may be addressed to the Dean of Students, 144 Oakland Center, Oakland University, Rochester, Michigan 48309-4401 (370-3352) and/or filed with the U.S. Department of Education.

Other Academic Policies

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. 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 Assistant 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 confidential 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 fail to make satisfactory 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 Services Office (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, 370-3229).

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 semester/session at the university. Furthermore, students will not be dismissed without having been placed on probation in the previously enrolled semester/session.
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. (See *Probation and dismissal policy* below.)
5. 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 their dismissals if they feel there are valid reasons for deferring dismissal decisions.
6. Students on probation for two consecutive semesters are not eligible for VA (Veterans') benefits.

Probation and dismissal policy

The following Academic Probation and Dismissal Policy applies to all undergraduate and second degree 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/session 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/session.

3. At the end of a probationary semester/session, 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/session, 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 Dismissal Appeal Form and submit it to the Academic Standing and Honors Committee within 10 calendar days of the issuance of the dismissal notice. The forms are available in the Academic Services 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 term-by-term basis as long as specific requirements are met. All students on dismissal option status must meet a term GPA minimum of 2.00 in each enrolled semester/session 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 term GPA of 2.00 results in reactivation of the dismissal, an action that may not be appealed by the student involved. The Dismissal Option Status program is administered by the Academic Skills Center (100 North Foundation 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 Services 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 semester/session.

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

Students applying for readmission must submit an application to the Academic Services Office at least 45 days before the first day of regular registration of the semester or session they expect to re-enter and must pay the requisite readmission fee. (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 Services Office in writing, and in doing so, can update their readmission application. However, if such students wish to enroll 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. Students withdrawing from the university must do so through the Registration Office (100 O'Dowd 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). If students stop attending classes but do not follow the withdrawal procedure, they may receive grades of 0.0.

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. Iveson, manager, technical services; Rosemary Mitchell, budget manager; Louann Stewart, circulation manager*

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

Associate professors: *Kristine S. Condic, Indra M. David, Robert G. Gaylor, Frank Lepkowski, Mildred H. Merz*

Assistant professors: *William Cramer, Linda L. Hildebrand, Richard L. Pettengill, Ann M. Pogary, Daniel F. Ring*

Library Facilities

Kresge Library contains most of the library's collections, including magazines, circulating books, reference works and 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 1,628,000 items includes 1,018,000 microforms, 15,800 records and phonotapes, 68,000 periodical volumes, 206,000 documents and 320,000 circulating and reference books.

The Matilda R. Wilson reference collection includes atlases, bibliographies, dictionaries, encyclopedias, indexes, yearbooks and other reference materials.

The library receives more than 2,000 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)

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 databases are available online over the campus network or on CD-ROM for patron use in the library.

Interlibrary loans

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

Direct Borrowing From Other Libraries

Oakland University students, faculty and staff may borrow library materials from:

Lawrence Technological University

Macomb Community College

University of Detroit - Mercy

University of Michigan - Dearborn

Walsh College

Wayne State University

To borrow materials two pieces of identification are needed, including an Oakland University identification. Materials borrowed must be returned to the source library.

OTHER PROGRAMS

Evening Degree Programs

Students may earn undergraduate degrees at night in 15 major areas: accounting, economics, English, finance, general management, general studies, history, human resource development, human resources 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 applied statistics, film aesthetics and history, health behavioral sciences, labor studies and women's studies. Minors in accounting, advertising, anthropology, economics, English, finance, general business, history, human resource development, industrial health and safety, international management, journalism, marketing, management information systems, mathematics, political science, production and operations management, psychology, public relations, quantitative methods and sociology/anthropology are available to evening students. Students should consult with an adviser about the scheduling of any prerequisite courses for these programs.

Academic advising for evening students is available on an appointment basis; students should consult the appropriate school or college advising office. Walk-in advising is available Monday through Thursday evenings during early and regular registration periods and the first week of every term in the Oakland Center. For information regarding this service, contact the Department of Academic Services and General Studies (121 North Foundation Hall, 370-3227).

Extension Program

Oakland University cooperates with Macomb Community College by offering a full baccalaureate degree program in Human Resource Development with a specialization in training and development at the Macomb University Center. Information on curriculum is available through the School of Education and Human Services Advising Center (472 O'Dowd Hall, 370-4182). Interested students can also call the Oakland University office at the Macomb University Center (Room 202C, 263-6242).

Oakland University participates in the Northwestern Michigan College University Center by offering a baccalaureate degree in General Studies. Specific program information is available through the Academic Services and General Studies Office (121 North Foundation Hall, 370-3227) or Northwestern Michigan College University Center (Boardman Lake Campus, 616-922-1777).

Oakland University offers evening undergraduate courses at various sites in southeast Michigan, including: Avondale High School, Rochester Hills; Bishop Foley High School, Madison Heights; Groves High School, Birmingham; Shrine High School, Royal Oak; and Warren Community Center, Warren.

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 and Continuum Center

Continuing Education and the Continuum Center are a joint unit of the university that cooperates with business and industry, governmental units, health care and other organizations to conduct university-level noncredit programs to meet professionals' needs. Noncredit offerings, conducted weekends and evenings, are revised continually to meet the expressed needs of nontraditional adult learners, both as individuals in the community and as members of organized groups.

Continuing Education courses, conducted in the professional, paraprofessional and vocational areas, are provided on site or on campus. Courses and workshops are offered evenings to provide technical update in areas such as statistical process (quality) control and computer skills.

Noncredit programs and courses carry the nationally recognized Continuing Education Unit (CEU). CEUs make it possible to document noncredit work and provide a means to build a permanent record of achievement valuable for evidence of increased capabilities and for job advancements. One CEU equals 10 contact hours of participation in an organized continuing education experience.

Professional staff development programs for business and industry

Continuing Education administers courses offered on site for noncredit and credit. Clients currently or formerly served include Ford Motor Company, General Motors Corporation, Chrysler Corporation, General Dynamics and automotive suppliers, as well as small to midsize businesses.

Diploma, certificate and relicensure programs

Diploma programs, a series of courses related to individual objectives, are offered as preparation for becoming a legal assistant and to sit for the CFP® (Certified Financial Planner) Examination.

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 Personal Financial Planning Certificate Program, 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 seek 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® exam.

Qualifying hours for professional relicensure are offered both periodically and throughout the year for counselors, educators, Certified Public Accountants, Certified Financial Planners, Certified Internal Auditors, Certified Management Accountants and licensed insurance professionals.

The Integrated Resource Management Certificate Program is designed to improve manufacturing and production systems for the purpose of remaining competitive in today's market.

Educational test preparation workshops

Test preparation workshops for the Scholastic Assessment Test (SAT), American College Testing (ACT), Graduate Record Exam (GRE), Graduate Management Admission Test (GMAT), Medical College Admission Test (MCAT) and Law School Admission Test (LSAT) 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 those seeking admission to graduate school, and the MCAT and LSAT, for those applying for entry into medical and law schools, respectively.

Conferences

Conferences on topical subjects are offered throughout the year. Included among the offerings are: the Writers' Conference, which has been conducted each October for more than 30 years, semiannual seminars for paralegals, and videoconferences for business executives and professional secretaries.

Continuum Center

This unit of Continuing Education provides topical and changing adult training workshops and seminars of personal enrichment, professional development, and career-related guidance and counseling. All Continuum Center training offers CEUs, and special programs offer National Certified Counselor continuing education contact hours and other professional credits necessary for certification.

Under contract to business, the Continuum Center develops training sessions and delivers them on site. In addition, the Center researches, develops and administers grant-funded projects, and develops and produces educational materials.

Workshops and conferences are designed and presented for professional audiences and for targeted needs of the community.

Individual career counseling is a continuously available service.

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, and swimming. Oakland female student-athletes participate in basketball, cross country, golf, soccer, swimming, tennis and volleyball. The university is also affiliated with the Great Lakes Intercollegiate Athletic Conference (GLIAC). Other GLIAC schools include Ashland University, Ferris State University, Gannon University, Grand Valley State University, Hillsdale College, Lake Superior State University, Mercyhurst College, Michigan Technological University, Northern Michigan University, Northwood University, Saginaw Valley State University and Wayne State University.

Oakland University is recognized across the country for its outstanding athletic program. Most teams compete successfully at the national level and numerous athletes have been awarded All-American honors.

Intramural activities

The Hollie L. Lepley Sports Center, named in honor of Oakland's first director of athletics, is open seven days a week during the academic year. Thousands of students participate in the university's well-rounded intramural program that includes sports for both men and women. Fall intramural activities include softball, touch football, floor hockey, racquetball (individual), basketball, tennis, volleyball and golf. The winter program includes volleyball, basketball and 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, dance, fencing, golf, handball, racquetball, squash, swimming and weight training. Its outdoor areas include 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

(810) 370-2140

Fax: (810) 370-4280

Acting Dean: *David J. Downing*

Office of the Dean: *Jacqueline R. Scherer, acting associate dean; Michael D. Sevilla, acting associate dean; Thomas F. Kirchner, administrator for college services; Rosemary L. Robinson, advising coordinator; Janice S. Elvekrog, assistant to the dean for student services, Cheryl A. Sullivan, academic adviser.*

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 secondary teaching certification in biology, chemistry, mathematics, a modern language and literature, music and physics.

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 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. Complete the writing proficiency requirement (see *Undergraduate degree requirements*).
8. Complete the university's general education requirement (see *Undergraduate degree requirements*).
9. Complete the university's ethnic diversity requirement (see *Undergraduate degree requirements*).
10. 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 foreign language.

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* in college Policies and Procedures). Some courses may be used to satisfy both the college distribution requirements and the ethnic diversity requirement.

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 lists 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 (AH 300; ENG 380, 381, 382, 383 and 384).
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 118 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, (211 Varner Hall).
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.)	Performing Arts (B.A.)
Art History (B.A.)	International Studies (B.A.)	Philosophy (B.A.)
Biology (B.A. or B.S.)	Journalism (B.A.)	Physics (B.A. or B.S.)
Biochemistry (B.S.)	Linguistics (B.A.)	Political Science (B.A.)
Chemistry (B.A. or B.S.)	Mathematics (B.A. or B.S.)	Psychology (B.A.)
Communication (B.A.)	Medical Physics (B.S.)	Public Administration (B.S.)
Economics (B.A.)	Modern Languages and	Sociology (B.A.)
English (B.A.)	Literatures (B.A.)	

Secondary Teacher Education Program (STEP)

In cooperation with the School of Education and Human Services, the College of Arts and Sciences offers an extended program of study leading to secondary teaching certification. The Secondary Teacher Education Program (STEP) is available to majors in biological sciences, chemistry, history, mathematics, modern languages and literatures, music and physics. For more information on program and admission requirements and procedures, please consult with advisers in the appropriate department and the School of Education and Human Services.

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. Some courses may satisfy a minor requirement, the ethnic diversity requirement and either a general education or a college distribution requirement. 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, Communication and Journalism*), anthropology, art history, biology, chemistry, communication (see *Rhetoric, Communication and Journalism*), dance, economics, English, environmental health (see *Other Academic Options* at the end of the *Arts and Sciences* section), history, international studies, journalism (see *Rhetoric, Communication and Journalism*), linguistics, mathematics, modern languages, music, philosophy, physics, political science, psychology, public relations (see *Rhetoric, Communication and Journalism*), science (see *Other Academic Options* at the end of the *Arts and Sciences* section), sociology, studio art (see *Art and Art History*) and theatre (See *Music, Theatre and Dance*).

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: in the School of Business Administration, accounting, finance, general business, human resources management, international management, management information systems, marketing, production and operations management and quantitative methods; in the School of Education and Human Services, human resource development, and labor and employment studies; in the School of Engineering and Computer Science, computer science; and in the School of Health Sciences, exercise science and industrial health and safety.

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

Biochemistry program

The biochemistry program is based on faculty resources and research facilities in the Departments of Biological Sciences and Chemistry. The curriculum is designed to prepare students for careers in biochemical research, graduate study in biochemistry or molecular biology, or professional education in medicine, dentistry, or other health sciences. For details about requirements for the Bachelor of Science degree with a major in biochemistry, see the *Biochemistry Program* section of the catalog.

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 *Environmental Health Program*.

Concentrations

The College of Arts and Sciences offers a number of 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. Some courses may satisfy a concentration requirement, the ethnic diversity requirement and either a general education or a college distribution requirement. 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 and Concentration Authorization Form with the department or school offering that program.

Concentrations are described under "Other Academic Options" at the end of the College of Arts and Sciences portion of the catalog and include the following: American studies; archaeology; criminal justice; energy studies; environmental studies; film aesthetics and history; gerontology; human and industrial relations; Michigan studies; preprofessional studies in medicine, dentistry and optometry; religious studies; social services; urban studies; and women's studies. Information about prelaw studies and the liberal arts minor in science can be found in the "Other Academic Options" section as well.

Concentrations 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 concentrations are described under department entries as indicated. These concentrations include: in the School of Health Sciences, health behavioral science; and sponsored by the University Committee on Applied Statistics, applied statistics.

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, political science and speech (see Department of Rhetoric, Communication and Journalism). A secondary teaching minor in computer science is offered by the School of Engineering and Computer Science (see the Department of Computer Science and Engineering section of this catalog).

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 the center's departmental listing. For information about other programs, consult with the center director, Carlo Coppola.

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 (211 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 those 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, 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. Students may transfer applicable community college credits at any time during their course of study. However, at least one-half of the credits required for completion of a specific baccalaureate degree program must be from regionally accredited four-year institutions, with at least 32 credits earned at Oakland University. (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 a 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 Arts and Sciences Advising Office (211 Varner Hall, 370-4567).

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 offering the 399 course in which 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, 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 communication 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 MBA program

For superior undergraduate students in any major in the college, the School of Business Administration offers the Master of Business Administration (MBA) 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 MBA program.

Arts and sciences undergraduates working on a major other than one of the business areas may obtain both the undergraduate degree and MBA in an accelerated program. To be eligible, students should have a grade point average in the top 25 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

(810) 370-3375

Fax: (810) 370-4208

Chairperson: *Janice G. Schimmelman***Professors:** *Carl F. Barnes, Jr. (Art History and Archaeology), John B. Cameron (Art History), Janice G. Schimmelman (Art History)***Associate professors:** *Bonnie F. Abiko (Art History), Susan E. Wood (Art History)***Lecturers:** *Andrea Eis (Art History), Stephen Goody (Studio Art), Sabrina Nelson (Art History), Louisa Ngote (Art History), Brenda Russell (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 both Western and non-Western 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. A minor in art history is available. The department also offers a minor in studio art. This program provides basic principles and methods of drawing, painting, sculpture and photography. The studio art program complements the art history program and provides the tools for further study of the visual arts.

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

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

1. AH 100, 101 and 104
2. AH 300, which should be taken early in the student's major course work; normally no more than 20 credits in the art history major may be taken prior to this course.
3. 16 credits from the following (at least one course must be selected from each category):
Non-Western: AH 301, 302, 304, 305, 307, 308, 320
Ancient/medieval: AH 310, 312, 314, 322, 326
Renaissance/baroque: AH 330, 334, 340
American/modern: AH 350, 352, 363, 364, 365, 366, 367, 370
4. 4 elective credits from AH courses
5. One AH course at the 400 level

6. One studio art course (4 credits) as a cognate to the major

Departmental faculty also recommend that art history majors acquire computer and word-processing skills before entering graduate school or seeking employment in the profession.

Departmental faculty also recommend that students intending to pursue graduate study complete, in addition to the above requirements, AH 400, one other 400-level course, and at least one year of college-level foreign language.

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 take 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 in the major. 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:

- Two of the following courses: AH 100, 101, 104
- A total of 8 credits, one course from any two of the following categories:
Non-Western: AH 301, 302, 304, 305, 307, 308, 320
Ancient/medieval: AH 310, 312, 314, 322, 326
Renaissance/baroque: AH 330, 334, 340
American/modern: AH 350, 352, 363, 364, 365, 366, 367, 370
- 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:

- SA 100 and one of the following: SA 101, SA 107
- Three courses at the 200, 300 and 400 level, at least one of which must be at the 300 or 400 level.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

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. *This course 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. *This course satisfies the university general education requirement in arts.*

AH 104 Introduction to Arts of Asia and the Islamic World (4)

Introduction to the monuments of Asia, including India, China, Japan and the Islamic world, including the Near East and North Africa. *This course satisfies the university general education requirement in arts.*

AH 300 Critical Thinking and Writing in Art History (4)

Practice in writing about art from various points of view, basic research and word processing techniques, and analytical reading of art history texts. AH 300 should be taken early in the student's major course work; normally no more than 20 credits in the art history major may be taken prior to this course.

Prerequisite: RHT 160 or equivalent, and written permission of the instructor.

AH 301 Japanese Art (4)

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

Prerequisite: AH 104 or IS 220.

AH 302 Indian Art (4)

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

Prerequisite: AH 104 or IS 240.

AH 304 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: AH 104 or IS 210.

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. *This course satisfies the university ethnic diversity requirement.*

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 classical Greece from ca. 1000 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.

Prerequisite: AH 104 or IS 270.

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. *This course satisfies the university ethnic diversity requirement.*

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 or WS 200.

AH 352 African-American Art (4)

The arts of African-Americans from the colonial period to the present. *This course satisfies the university ethnic diversity requirement.*

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 360 History of Automobile Design (4)

The aesthetic, social and technological aspects of automobile design from the nineteenth century to the present.

Prerequisite: AH 101.

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 the present, including printmaking techniques, collecting and conservation. Students will work with original prints.
Prerequisite: AH 101 and permission of instructor.

AH 380 Museology and Patronage (4)

The study of modern museums (collections, conservation and 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. May be repeated for 4 additional credits.
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 that 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 400 The Bibliography and Methodology of Art History (4)

Advanced research techniques in art history using bibliographies, other references (e.g., sales catalogs) and electronic databases.
Prerequisite: 16 credits of art history, including AH 300 and one other art history course at the 300-400 level.

AH 401 Seminar in Asian Art (4)

Topics in the art of India, China, Japan and Southeast Asia. May be taken for up to 8 credits in two semesters.
Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

AH 405 Seminar in Tribal Art (4)

Topics in the art of the indigenous peoples of Black Africa, America and Oceania. May be taken for up to 8 credits in two separate semesters.
Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

AH 410 Seminar in Ancient Art (4)

Topics in the ancient art of Greece, Rome and the Near East to the fourth century. May be taken for up to 8 credits in two separate semesters.
Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

AH 420 Seminar in Medieval Art (4)

Topics in the art of Medieval Europe from the fourth century to the beginning of the Renaissance. May be taken for up to 8 credits in two separate semesters.

Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

AH 430 Seminar in Renaissance and Baroque Art (4)

Topics in the art of Europe from the fourteenth to eighteenth centuries. May be taken for up to 8 credits in two separate semesters.

Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

AH 450 Seminar in American Art (4)

Topics in American art from the colonial period to World War II. May be taken for up to 8 credits in two separate semesters.

Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

AH 460 Seminar in the Art of the Modern Era (4)

Topics in Western art from the French Revolution to the present. May be taken for up to 8 credits in two separate semesters.

Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

AH 470 Seminar in Art Media and Techniques (4)

Topics in the traditions and uses of a single medium or technique, such as (but not limited to) printmaking, bronze casting, oil painting, photography and video. May be taken for up to 8 credits in two separate semesters.

Prerequisite: 20 credits of art history and appropriate course in topic area, which will be announced before each offering.

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**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 Introduction to Drawing (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 110 Introduction to Watercolor (4)

Exploration of basic drawing, design and color using the medium of watercolor.

SA 200 Basic Studio (4)

Continuation of SA 100, dealing with the processes of creating structures, but with more emphasis on conceptualization.

Prerequisite: A 100-level course in studio art.

SA 201 Intermediate Sculpture (4)

Continuation of SA 101.

Prerequisite: SA 101 or permission of instructor.

SA 207 Intermediate Drawing (4)

Continuation of SA 107. Principles of drawing are carried into other media such as photography, computer graphics and the traditional media of watercolor, gouache, acrylic, oil and various sculpture media. Media and approaches will vary from term to term. May be taken in different semesters for a total of 8 credits. Prerequisite: A 100-level course in studio art.

SA 209 Painting I (4)

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

Prerequisite: A 100-level course in studio art.

SA 266 Photography I (4)

Introduction to the art of black and white photography, including film processing and darkroom procedures.

SA 270 Computer Graphics (4)

Exploration of computer systems to create graphic images by plotting, photo scanning and manipulation, and free sketching.

Prerequisite: One course in studio art.

SA 309 Painting II (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 350 Historic Painting Techniques (4)

Experimentation with historic techniques, such as panel painting, tempera, fresco and oil glazes.

Prerequisite: Any course in art history or studio art.

SA 366 Photography II (4)

Continuation of SA 266.

Prerequisite: SA 266 or permission of instructor.

SA 367 Documenting the Arts (4)

Photographing the plastic arts (painting, sculpture, architecture and exhibitions) and performing arts (theatre, dance and musical performances). Will include some film processing and darkroom procedures.

Prerequisite: SA 266 or permission of instructor.

SA 390 Topics in Studio Art (4)

Specific topics in studio art for which no regular course offerings exist. Topic, instructor and prerequisite will be announced before each offering. May be repeated in a subsequent semester for a total of 8 credits.

Prerequisite: 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 that 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 and permission of instructor.

SA 490 Independent Study in Studio Art (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

(810) 370-3550

Chairperson: *Virinder K. Moudgil*

Professor emeritus: *William C. Forbes*

Professors: *Francis M. Butterworth, George J. Gamboa, Esther M. Goudsmit, Egbert W. Henry, R. Douglas Hunter, Paul A. Ketchum, 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, Sheldon R. Gordon, Thaddeus A. Grudzien, Feona M. Hansen-Smith, Satish K. Walia, Jon A. Yates*

Adjunct professors: *Tom Madhavan, Donald A. McCrimmon, James R. Wells*

Adjunct assistant professors: *Stan A. Beyler, Gerard Joswiak*

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; professional careers in medicine, dentistry, nursing or other allied health areas; or teaching science in high school. 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.

A minimum of 40 credits in biology (BIO 111 and above) is required, including at least seven lecture courses. Students must complete:

1. BIO 111, 113, 116 and one course from three of the following:
Physiology: BIO 207, 321 or 333
Biochemistry: BIO 325
Morphology: BIO 205, 305, 313 or 323
Genetics: BIO 341
Ecology: BIO 301 or 387
2. One of the following organismic biology courses selected in consultation with their biology adviser: (botany) BIO 311, 327, or 373; (zoology) BIO 303, 317 or 353; or (microbiology) BIO 319. Note: BIO 307 does not satisfy this requirement.
3. One 3- or 4-credit 400-level lecture course (BIO 405, 490 and 497 do not satisfy this requirement)
4. 14 credits of chemistry (CHM 144-145 and 147-148, 234)
5. 10 credits of physics (PHY 101-102 or 151-152, depending on MTH option, and 158)
6. MTH 141 plus one of the following — MTH 122, 154; STA 225 or 226.

Corresponding lecture and lab courses should normally be taken simultaneously. 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 111 and above) is required, including at least seven lecture courses and a minimum of four BIO laboratory courses. Students must complete:

1. BIO 111, 113, 116 and one course from three of the following areas:
Physiology: BIO 207, 321 or 333
Biochemistry: BIO 325
Morphology: BIO 205, 305, 313 or 323
Genetics: BIO 341
Ecology: BIO 301 or 387
2. One of the following organismic biology courses selected in consultation with their biology adviser: (botany) BIO 311, 327 or 373; (zoology) BIO 303, 317 or 353; or (microbiology) BIO 319. Note: BIO 307 does not satisfy this requirement.
3. One 3- or 4-credit 400-level lecture course (BIO 405, 490 and 497 do not satisfy this requirement)
4. 20 credits of chemistry (CHM 144-145 and 147-148; 234-235 and 209)
5. 10 credits of physics (PHY 101-102 or 151-152, depending on MTH option, and 158)
6. MTH 141 plus one of the following — MTH 154 and 155; or MTH 122 and either STA 225 or 226
7. A senior paper based either on research performed under BIO 490 or a literature search of a research-oriented topic taken as BIO 405.

Corresponding lecture and lab courses should normally be taken simultaneously. One semester of computer programming (CSE 130) is recommended as an elective.

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

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

Adviser: *Paul A. Ketchum*

Students may elect this specialization in their sophomore or junior year. Biology courses required for the microbiology specialization are: BIO 319, 320, 421, 422, 465 and 466. The selection of all courses should be planned in consultation with the adviser.

Secondary Teacher Education Program (STEP): Biological Sciences

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Students in this program must complete the requirements for a B.A. or B.S. degree as indicated above and concurrently fulfill the requirements listed below:

1. Significant work in the following eight biological areas, as defined by the department, and chosen in consultation with the biology adviser. Note that a single course may satisfy more than one area:
 - Cell biology/biochemistry: BIO 111, 323 or 325
 - Physiology: BIO 207, 321 or 333
 - Zoology: BIO 205, 303, 305, 317, 321, 323, 353 or 465
 - Botany: BIO 311, 313, 327 or 373
 - Ecology: BIO 301, 303, 375 or 387
 - Genetics: BIO 341
 - Microbiology: BIO 307, 319, 421 or 465
 - Evolution: BIO 113 or 387
2. A minimum of four biology laboratory courses
3. One course in earth science or geography, such as PHY 106 or 107
4. One course in science, technology and society, such as BIO 300; CHM 300; AN 300; ENV 308, 311 or 312; PHY 115 or 127.

A program in STEP must also include a 20-24 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300/301, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Biological Sciences and the School of Education and Human Services advising office (472 O'Dowd Hall, 370-4182).

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 the *Other Academic Options* section for suggestions regarding course selection. Students in the Bachelor of Arts degree program will need to complete 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.

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 111, 113 and 116. 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.

Requirements for the secondary teaching minor in biology

A minimum of 20 credits in biology is required for the secondary teaching minor in biology. BIO 104, 110, and 300 may not be counted toward this requirement. At least 8 credits must be taken in courses numbered 301 or higher. Non-science majors must complete an additional 4 credits in science for a total of 24 credits for this minor.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

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 that 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 111 Biology (4)

Cell ultrastructure, enzymology, metabolism, genetics, cell division. A year of high school chemistry and/or CHM 101 is strongly recommended. Offered fall and winter semesters. Satisfies the university general education requirement in natural science and technology. Formerly BIO 200.

BIO 113 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. Formerly BIO 190.

Prerequisite: BIO 111 recommended.

BIO 116 Biology Laboratory (1)

Laboratory and field experience emphasizing scientific method, scientific writing, Mendelian genetics, vertebrate anatomy and animal and plant diversity. To accompany BIO 111 or 113. Formerly BIO 195.

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 111.

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 111.

BIO 255 Publications Review (1)

Discussion of recent publications in the biological sciences.

Prerequisite: BIO 111 or 113.

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 111, 113, 116.

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 113, 116.

BIO 305 Histology (4)

The microscopic anatomy and histochemistry of vertebrate tissues and organs in relation to tissue function.
Prerequisite: BIO 111, 113.

BIO 306 Histology Laboratory (2)

To accompany BIO 305.

BIO 307 Introduction to Human Microbiology (4)

Introduction to the biology of microorganisms emphasizing the infectious diseases they cause and their control. Bacterial, mycotic, protozoan and viral infections; immunology; epidemiology; pathogenic mechanisms; chemotherapy; microbial genetics; microbial growth; and microbial physiology. Required of students in the nursing program. Not open to students who have taken BIO 319.
Prerequisite: BIO 111.

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 111, 113, 116.

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 111, 113, 116.

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 111, 113.

BIO 319 General Microbiology (4)

Microbial metabolism, growth, genetics, molecular biology, genetic engineering, classification, aseptic techniques, host-parasite relationships, and 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 111, 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 111, 113.

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 and regeneration. Each topic is examined from the morphological to the molecular level.
Prerequisite: BIO 111, 113. 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 in biochemistry. Topics include: structure, function and isolation of biomolecules and subcellular components; generation of metabolic energy; metabolism of carbohydrates, proteins and lipids; and implications for human nutrition. Offered fall semester.

Prerequisite: BIO 111, CHM 145 and 234.

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 and the importance of woody plants to people. Includes laboratory experience.

Prerequisite: BIO 111, 113.

BIO 333 Plant Physiology (4)

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

Prerequisite: BIO 111 or 113.

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 113, 111. BIO 325 recommended.

BIO 342 Genetics Laboratory (1)

Laboratory experience in genetics, including elementary experiments in molecular genetics.

Prerequisite: BIO 111, 113. BIO 326 recommended. Corequisite: BIO 341.

BIO 345 Experimental Genetics (2)

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

Corequisite: BIO 341.

BIO 351 Neurobiology (4)

Properties of individual nerve cells and small groups of nerve cells involved in information processing. Emphasis is placed on the cellular and molecular basis of excitability and synaptic transmission, membrane receptor systems and signalling, neuronal plasticity, and sensory and motor functions in relation to neurological disorders.

Prerequisite: BIO 111, 113, 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 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 111, 113.

BIO 375 Limnology (2)

An introduction to freshwater biology; lake classification, biogeochemical cycles, lake and stream ecology, seasons, flora and fauna, plankton and benthos, and lake origins and evolution.

Prerequisite: BIO 111, 113.

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; and dissection of cadaver.

Prerequisite: BIO 321 and permission of instructor.

BIO 387 Evolutionary Biology (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 111, 113. 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, and the role of hormones in cancer, reproduction, differentiation, and growth.

Prerequisite: BIO 207 or 321. Offered winter semester alternate years.

BIO 399 Field Experience in Biology (4)

Field experience in biology with faculty supervision that 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)

Term paper based on library research of a current research-oriented biological topic. May be taken more than once.

Prerequisite: Written agreement with a biology faculty supervisor.

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 235 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 111.

BIO 422 Medical Microbiology Laboratory (2)

Basic skills of handling pathogenic bacteria and their diagnosis.

Prerequisite: BIO 421 or permission of instructor.

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 321.

BIO 425 Biophysics (4)

The physical basis of biological phenomena. Biological structure and function are studied in the context of systems theory.

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 Molecular Biology of the Gene (4)

Molecular biology of prokaryotic and eukaryotic genes with emphasis on recent developments in gene cloning, expression, and applications of recombinant DNA technology in biology and medicine.
Prerequisites: BIO 325 or CHM 453 or instructor permission.

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 Biotechnology (4)

Microbial genetics, emphasizing the basic aspects of bacteriophage and plasmid genetics applied to biotechnology.
Prerequisite: BIO 341 or 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 461 Neuroanatomy Laboratory (1)

Laboratory experience in neuroanatomy. Identification of basic neuroanatomical structures of the human.
Corequisite: BIO 460.

BIO 463 Cell Biology (4)

Prerequisite: BIO 305 and permission of instructor.

BIO 464 Cell Biology Laboratory (1)

To accompany BIO 463.

BIO 465 Medical Parasitology and Mycology (3)

An introduction to the medically important mycotic, protozoal and helminthic parasites; their morphology, biology, life cycles, clinical manifestations, pathogenesis, immunology, epidemiology and control.
Prerequisite: BIO 111, 113. Recommended: BIO 207 or 321.

BIO 466 Medical Parasitology Laboratory (1)

Laboratory methods for identification of the medically important protozoan and helminthic parasites.
Corequisite: BIO 465.

BIO 481 Topics in Physiological Ecology (3)

Physiological responses of organisms to their environment, including plant/herbivore interactions, desert ecology, allelopathy and energy cost of animal activities.
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. Should be initiated before the senior year. 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

(810) 370-2320

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Chairperson: *Paul Tomboulian*

Professors emeriti: *Steven R. Miller, Lewis N. Pino*

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

Associate professors: *Maria Szczesniak Bryant, Arthur W. Bull, Judien Gendell, Kathleen Moore, Mark Severson, Robert L. Stern*

Adjunct professors: *Anna C. Ettinger, Donald MacArthur, Parbury Schmidt*

Adjunct associate professors: *David Becker, Fazlul Sarkar*

Adjunct assistant professors: *Janet Bennett, Gerald G. Compton, Naomi Eliezer*

Lecturers: *Rafil A. Basheer, R. Terry Begnoche, William Bradford, Elwin Coll, Robert MacDonald, Mark Richardson, William Robert, Ghassan Saed, Cole Shoemaker, Douglas Thiel, Gary White*

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 (or 164), 145 (or 165), 147-148, 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 general business offered by the School of Business Administration.

A minimum of 41 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. Also required are three or more additional approved credits of BCM, BIO, APM, MTH, STA or PHY in a course that 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.

Secondary Teacher Education Program (STEP): Chemistry

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Students in this program should complete the requirements for a B.A. or B.S. degree in chemistry.

A program in STEP must include a 20-24 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300/301, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Chemistry and the School of Education and Human Services Advising Office (472 O'Dowd Hall, 370-4182).

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.

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"), and 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. 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 (or 164-165), 147-148, 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 (or 164-165) and 147-148, plus 10 credits of CHM courses numbered at the 200 level or above. Non-science majors must complete an additional 4 credits in science for a total of 24 credits.

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.

Students in this program are not required to complete the college distribution requirements. Program requirements (a minimum of 128 credits) for the Bachelor of Science in engineering chemistry include:

1. MTH 154, 155, 254; APM 257 and PHY 151-152
2. CHM 144-145 (or 164-165), 147-148, 234-235, 237, 342-343, 348 and 471; choice of 6 credits from CHM 462-463, 470, 472 or 477
3. EGR 101, 401; CSE 131, 171; EE 222; ME 221, 241, 331 and SYS 325; choice of 8 credits from ME 438, 448, 449, 456, 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.

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, 462 and 466.

Placement in introductory chemistry courses

The various introductory courses (CHM 104, 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 department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

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. NOTE: Credit will not be allowed for more than one course from each of the following sequences: CHM 104, 144 and 164; CHM 145 and 165; CHM 209 and 237. CHM 144-145 (or 164-165) ARE PREREQUISITE TO ALL OTHER CHEMISTRY COURSES AT THE 200 LEVEL OR ABOVE EXCEPT CHM 201 AND CHM 300. Credit will not be allowed in major and minor programs in chemistry, biology or physics for CHM 101, 201 and 300.

CHM 101 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 101 may not be used for major or minor credit in chemistry, biology or physics. Formerly CHM 140.

CHM 104 Introduction to Chemical Principles (4)

Study of principles of general chemistry. Prepares students for CHM 201. Recommended preparation: high school algebra and chemistry. (Credit will be allowed for only one of the following: CHM 104, 144 or 164.) Satisfies the university general education requirement in natural science and technology. Prerequisite: Chemistry Placement Test or CHM 101.

CHM 144-145 General Chemistry (4 each)

Stoichiometry, states of matter, atomic and molecular structure, thermochemistry, and equilibrium and kinetics. CHM 144-145 (or 164-165) 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 be allowed for only one of the following: CHM 104, 144 or 164.) CHM 144 satisfies the university general education requirement in natural science and technology. Prerequisite: Chemistry Placement Test or CHM 101; MTH 012 or placement in MTH 141 or higher MTH course.

CHM 147 General Chemistry Laboratory I (1)

Experimental investigation of chemical phenomena and measurements. Prerequisite or corequisite: CHM 144.

CHM 148 General Chemistry Laboratory II (1)

Training in the basic techniques of chemistry experimentation. Prerequisite: CHM 147. Prerequisite or corequisite: CHM 145.

CHM 164-165 General Chemistry: An Advanced Introduction (4 each)

Intensive introduction to chemistry, in a small-class setting, including an investigation of selected areas of current research in chemistry. This course is recommended for students who have strong high school preparation in chemistry and physics, especially those majoring in physical sciences or engineering. (Credit will be allowed for only one of the following: CHM 104, 144 or 164.) CHM 164 satisfies the general education requirement in natural science and technology. Prerequisite: One year of high school chemistry and physics and Chemistry Placement Test; for CHM 165: CHM 144 (or 164).

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 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 237. Prerequisite: CHM 148. Corequisite: CHM 234.

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 148.

CHM 234-235 Organic Chemistry (4 each)

Introduction to the structure, properties and reactivity of organic compounds. CHM 234 must be taken first. Prerequisite: CHM 145 (or 165).

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 237. Prerequisite: CHM 148. Corequisite or prerequisite: CHM 234-235.

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

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

Prerequisite: Permission of instructor.

CHM 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.

Prerequisite: CHM 145 (or 165), PHY 152 and MTH 155.

CHM 343 Physical Chemistry II (4)

Kinetics, introduction to quantum mechanics, statistical mechanics, and molecular spectroscopy. This course may be taken before CHM 342.

Prerequisite: CHM 145 (or 165), PHY 152 and MTH 155.

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 (or 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.

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 432 Advanced Organic Chemistry (3)

Selected topics in synthetic, structural and physical-organic chemistry.

Prerequisite: CHM 235.

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; bioenergetics and catabolism. Identical with BCM 453.

Prerequisite: CHM 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. Identical with BCM 457.

Prerequisite or corequisite: CHM/BCM 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 235.

CHM 472 Physical Chemistry of Macromolecules (3)

The molecular principles governing the physical behavior of macromolecules in solution and in the glassy and crystalline states. The mechanical behavior and structure of macromolecules.

Prerequisite: CHM 471 and 343 or instructor's permission.

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.

DEPARTMENT OF ECONOMICS

416 VARNER HALL

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Chairperson: *Kevin J. Murphy***Professors:** *Eleftherios N. Botsas, Augustin K. Fosu, Karl D. Gregory, Robbin R. Hough, Oded Izraeli, Sid Mitra, Miron Stano***Associate professors:** *Sherman Folland, Kevin J. Murphy, Anandi P. Sahu, Ronald L. Tracy***Assistant professors:** *Addington Coppin, Lee R. Mobley, Nivedita Mukherji***Lecturers:** *Julie Granthen, George Kuljurgis, Scott Monroe, Dennis Polak, John Sase***Chief adviser:** *Kevin J. Murphy*

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 business and 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 (MBA) 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.

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 mathematical 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.)

Students should seek advising in the School of Business Administration for this major.

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

The program leading to a Bachelor of Arts degree in economics includes cognate courses in mathematics, statistics and computers; admission to major standing in economics (see below); and 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	Principles of Macroeconomics	
and ECN 201	Principles of Microeconomics	
or ECN 210	Principles of Economics (combines ECN 200 and 201)	6-8
ECN 301	Intermediate Microeconomics	4
ECN 302	Intermediate Macroeconomics	4

Economics electives

The economics elective requirement is 20 additional credits in courses numbered ECN 300 and above; 8 of these credits must be in courses numbered ECN 400 and higher; no more than 4 credits may be in ECN 490. It is strongly recommended that students become familiar with international institutions within economics. Three courses are well suited to accomplish this: ECN 326,342 or 373.

20

52-54**Requirements for major standing**

Admission to major standing in economics requires:

1. Completion of the writing requirement.
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 130), ECN 210 (or 200 and 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 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 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 210 or both ECN 200 and 201 and any prerequisites for these courses. 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. This minor is open to all students except economics majors.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

Following is a general description of the economics courses offered.

ECN 150: An introductory economics course for students not majoring in economics or business. 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 309-342: Economics electives numbered 309 through 342 are applications of economics that are open to students who have taken ECN 150, 200 or 210.

ECN 350-385: 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 210.

ECN 405-490: 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 following economics courses is given in the School of Business Administration section of this catalog:

- 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 303 Managerial Economics (3)
- ECN 309 State and Local Public Finance (4)
- ECN 310 Economics of the Environment (4)
- ECN 321 Money, Credit and the Economy (4)
- ECN 326 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 367 Economics of Health Care (4)
- ECN 373 International Economics (4)
- ECN 378 Economic Analysis of Law (4)
- ECN 380 Topics in Economics (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 418 Seminar in Economic Policy (4)
- ECN 421 Monetary Theory and Policy (4)
- ECN 456 Public Finance (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

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Chairperson: *Joan G. Rosen*

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Associate professors: *Natalie B. Cole, Brian A. Connery, Kevin T. Grimm, Nigel Hampton, Susan E. Hawkins, Edward Haworth Hoepfner, Bruce J. Mann, David W. Mascitelli, Brian F. Murphy, Mary A. Papazian, Joan G. Rosen*

Assistant professors: *Philip B. Gould, Niels Herold*

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

Lecturers: *Eugenie Beall, Martha L. Hammel, Linda McCloskey, Jimmy T. McClure, Rachel Smydra*

Chief adviser: *Edward Haworth Hoepfner*

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 writing, technical writing, scientific writing 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, general business, 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 a program leading to the Master of Arts degree in English; the program and course offerings are described in the *Oakland University Graduate Catalog*.

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

A minimum of 40 credits in English (at least 20 credits of which must be taken at Oakland), 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 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 Roger M. and Helen 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 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. At least 12 credits from offerings in English must be taken at Oakland. Courses used to satisfy the university's writing proficiency requirement cannot be used to fulfill requirements for the minor.

Requirements for the secondary teaching minor in English

Required for a secondary teaching minor are 24 credits from offerings in English, including ENG 290 (formerly ENG 140), one course in British literature, one course in American literature and one course in writing (ENG 215, 380, 383 or 384). At least two courses must be taken at the 300-400 level. All students who plan to obtain the minor should consult with a department adviser. At least 12 credits from offerings in English must be taken at Oakland. Courses used to satisfy the university's writing proficiency requirement cannot be used to fulfill requirements for the minor.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

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 concentra-

tions. 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 112 Literature of Ethnic America (4)

Studies in literature about the American ethnic heritage including examples from such sources as African-American, Native American and American immigrant literatures. *For students seeking an English elective or a course to satisfy the university general education requirement in literature. This course satisfies the university ethnic diversity requirement.*

ENG 200 Topics in Literature and Language (4)

Topics or problems selected by the instructor.

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 (4)

A course treating the relationship of the study of language systems to composition, exploring various grammatical and rhetorical models.

Prerequisite: RHT 160 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 Cultural Studies (4)

The interaction of texts and cultural contexts, studied from diverse perspectives — aesthetic, economic, historical and technological. Texts may be literary, filmic, televisual, musical, etc.

ENG 303 Fiction (4)

The major forms of narrative fiction (short story, novella, novel) studied from generic and historical points of view. *This course satisfies the university general education requirement in literature.*

Prerequisite: Junior standing.

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 305 The Bible as Literature (4)

Emphasis on the artistic, imaginative and historical aspects of the Bible. *This course satisfies the university general education requirement in literature.* Identical with REL 311.

Prerequisite: Junior standing.

ENG 306 Drama (4)

The major forms of dramatic expression studied from generic and historical points of view. *This course satisfies the university general education requirement in literature.*

Prerequisite: Junior standing.

ENG 307 Modern Drama (4)

Studies in English, American and Continental drama since Ibsen.

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.*

Prerequisite: Junior standing.

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 318 American Literature 1820-1865 (4)**
Studies in American prose and poetry of the pre-Civil War period, with emphasis on such writers as Emerson, Hawthorne, Melville, Thoreau and Whitman.
- ENG 319 American Literature 1865-1920 (4)**
Studies in American prose and poetry from the Civil War through World War I, with emphasis on such writers as Twain, James and Dickinson.
- 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. *This course satisfies the university ethnic diversity requirement.*
- 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. *This course satisfies the university ethnic diversity requirement.*
- ENG 350 Topics in Film (4)**
Topic or problem to be selected by the instructor. May be repeated under different sub-title.
- 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 381 Scientific and Technical Writing (4)**
Writing to diverse audiences about scientific and technological subjects in formats such as articles, essays and reports.
- ENG 382 Business Writing (4)**
Instruction, practice and technique in writing business communications (resumes, letters, memoranda, and reports).
- ENG 383 Workshop in Fiction (4)**
Creative writing workshop, with emphasis on narrative.
- ENG 384 Workshop in Poetry (4)**
Creative writing workshop, with emphasis on both traditional and experimental poetic forms.
- 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, Ancient to Early Modern (4)**
The development of literary theory, presented as a survey. Applications of theory in critical practice will be considered.
- ENG 391 Literary Theory, Early Modern to the Present (4)**
The development of literary theory, presented as a survey. Applications of theory in critical practice will be considered.
- 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). May be repeated under different sub-title.
Prerequisite: Four courses in English.
- ENG 451 Major American Writers (4)**
Studies in one or two American writers to be selected by the instructor. May be repeated for credit with different writers.
Prerequisite: Four courses in English.
- ENG 452 Major British Writers (4)**
Studies in one or two British writers to be selected by the instructor. May be repeated for credit with different writers.
Prerequisite: Four courses in English.
- ENG 453 Studies in Major Authors (4)**
Intensive study of a selected group of authors: British, American or both. May be repeated for credit with different authors and permission of the instructor.
Prerequisite: Four courses in English.

ENG 465 Shakespeare (4)

Analysis of four or five of the plays.

Prerequisite: Four courses in English.

ENG 490 Studies in Literary Theory (4)

May focus on individual schools or issues.

Prerequisite: Four courses in English; ENG 390 or 391 recommended.

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

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Chairperson: *Ronald C. Finucane*

Distinguished professor emeritus: *George T. Matthews*

Professors emeriti: *Charles W. Akers, Robert C. Howes, W. Patrick Strauss, S. Bernard Thomas, Anne H. Tripp*

Associate professor emeritus: *Paul M. Michaud*

Professors: *John Barnard, Ronald C. Finucane, Mary C. Karasch, Richard P. Tucker*

Associate professors: *Linda Benson, De Witt S. Dykes, Jr., Leonardas V. Genulaitis, James D. Graham, Roy A. Kotynek, Carl R. Osthaus*

Assistant professors: *L. Jane Graham, Karen A. J. Miller, Seán Farrell Moran, Geoffrey D. W. Wawro*

Chief adviser: *Carl 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, teaching, 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. All history students should plan their course of study in close consultation with a department adviser.

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

The major in history requires a minimum of 44 credits in history courses. There is an appropriate writing component in history courses at all levels. Students must complete the following:

1. At least 8 credits numbered under 300
2. At least 24 credits numbered 300 or above including HST 300 and:
 - One course in American history
 - One course in European history
 - One course in African, Asian or Latin American history

3. One senior capstone course (HST 494, 495, 496 or 497) is required
4. No more than 12 credits in independent study (HST 391 and 491) may be counted toward the major.

Departmental honors and scholarships

Department honors may be awarded to graduating majors for outstanding achievement in history as evidenced by faculty recommendations, high grades and a superior research paper. The original paper, along with the instructor's comments and grade, should be submitted. There is no statutory grade point minimum for honors, but the award is not normally made to students with less than a 3.50 grade point average in history. Inquiries should be addressed to the Department of History (378 O'Dowd Hall, 370-3510).

Students are eligible for membership in Alpha-Zeta-Upsilon, the Oakland University chapter of the international honor society in history, Phi Alpha Theta. Students are selected for membership on the basis of academic achievement. Inquiries should be addressed to the history department office.

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 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 24 credits in history courses, including HST 114 and 115; at least 8 credits must be in courses numbered 300 or above.

Secondary Teacher Education Program (STEP): History

The Secondary Teaching Education Program (STEP) at Oakland University is an extended program of study leading to certification. Students in this program must complete the requirements for a B.A. degree as defined here and concurrently fulfill the requirements listed below:

1. A minimum of 44 credits including: HST 101, 102, 114, 115
2. At least 24 credits must be numbered 300 or above and must include:
 - HST 300
 - One course in American history
 - One course in European history
 - One course in African, Asian or Latin American history
3. One senior capstone course (HST 494, 495, 496 or 497)
4. No more than 12 credits in independent study (HST 391 and 491) may be counted toward the major.

A program in STEP must also include a 20-24 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300/301, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of History and the School of Education and Human Services advising office (472 O'Dowd Hall, 370-4182).

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

Course prerequisites

Introductory and survey courses (HST 101-299) have no prerequisites. More advanced courses (HST 300-399) have a general prerequisite of writing proficiency plus any special requirements listed within the course descriptions. The most advanced research courses at the undergraduate level (HST 400-499) have a general requirement of 20 credits in history plus any special requirements listed within the course descriptions.

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. *This course 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. *This course satisfies the university general education requirement in Western civilization.*

HST 114 Introduction to American History before 1877 (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. *This course satisfies the university ethnic diversity requirement. It also satisfies the university general education requirement in Western civilization.*

HST 115 Introduction to American History since 1877 (4)

Surveys American history from Reconstruction to the present, emphasizing the emergence of the United States as an industrial-urban nation with global interests. *This course satisfies the university ethnic diversity requirement. It also 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. *This course satisfies the university general education requirement in Western civilization.*

HST 250 History of Russia (4)

An introduction to the political, social and intellectual history of Russia and the former 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 292 History of the African-American People (4)

Surveys the African-American experience from the African background through the Civil War and post-Civil War periods to the present. *This course satisfies the university ethnic diversity requirement. It also satisfies the university general education requirement in Western civilization.*

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 301 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. *This course satisfies the university ethnic diversity requirement.*

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 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)

Covers the partial transplantation of European society to continental North America; the ethnic origins of colonial American culture; the political, economic and social development of the colonies; the English conquest of the continent; the American Revolution; and the establishment of national government under the Constitution.

HST 310 The Young Republic and the Age of Jackson, 1787-1850 (4)

Covers the political, economic and social development of the new nation, with emphasis on American commercial and territorial expansion, social protest and sectionalism.

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.

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.

HST 315 American History 1928-1945 (4)

A history of the Great Depression and World War II. Topics will include the One Hundred Days, the foundation of the modern welfare state, the foundation of the modern civil rights movement, the reorganization of American corporate enterprise and the role of the United States in international peacekeeping.

HST 316 The American Mind to 1861 (4)

The history of American thought from the colonial period to the Civil War, emphasizing Puritanism, evangelical religion, the Enlightenment, republicanism, democracy and sectional conflict.

HST 317 The American Mind since 1861 (4)

Major intellectual trends in the United States from the Civil War to the 1970s, including the conflict between nationalism and localism, the impact of evolutionism, and responses to the challenges of modernity, inequality, global involvement and war.

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. *This course satisfies the university ethnic diversity requirement.*

HST 320 Cold War America, 1945-1990 (4)

The origins of the Cold War, its impact on American foreign relations and domestic politics, its decline and demise.

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.

HST 322 Women in Modern America (4)

An analysis of the role of women in industrial America which will examine the legal role of women, their presence in the labor force, and their participation in the political system. Identical with WS 322.

HST 323 Topics in African-American History (4)

The economic, social and political activities, status, organizations and institutions of African-American people. *This course satisfies the university ethnic diversity requirement.*

HST 324 Ancient Greece and Rome (4)

An overview of the various intellectual, political and cultural legacies of ancient Greece and Rome, ranging in aspect from Homeric warfare, the mysteries of Dionysus and Delphi, Platonic and Aristotelian inquiry, Hellenic artistic ideals and Athenian democracy, to Roman legalism and jurisprudence, ideologies of imperial political control and Christianity.

Prerequisite: HST 101 or equivalent.

HST 325 Medieval Europe (4)

The European Middle Ages from about A.D. 400 to 1300, with special emphasis on intellectual developments.

HST 326 The Italian Renaissance (4)

The European Renaissance period, with emphasis on the Italian experience.

HST 327 The Reformation (4)

European humanism, with emphasis on the Lowlands, France and Germany; the background, development and impact of the Protestant Reformation.

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 330 England, 1066-1485 (4)

Emphasizes the history of England between the Conquest and the Tudors, including cultural and social trends as well as political and dynastic developments and conflicts, domestic and foreign.

Prerequisite: HST 101 recommended.

HST 334 Victorian and Edwardian Britain (4)

Political, cultural and intellectual life of Britain from 1815 to 1911.

HST 335 Twentieth Century Britain (4)

An analysis of British political, cultural and social history from the eve of World War I to the present.

HST 336 The History of Ireland (4)

A history of Ireland from ancient Ireland to the present. Emphasis will be placed on the development of indigenous institutions and cultures and their roles in the development of an independent state.

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 19th century; rise of feminism; women and war, socialism, fascism and the welfare state in the 20th century. Identical with WS 339.

HST 341 Europe since 1914 (4)

An analysis of Europe in world perspective since World War I.

HST 343 Germany since 1740 (4)

German politics, society and diplomacy from Frederick the Great to the present.

HST 344 Modern Italy: National Unification and the 20th Century (4)

An examination, stressing political and institutional history, of early efforts to create Italian national unity, the means by which Italy was held together following unification of 1861, and the fate of the Republic from 1946 onward.

HST 345 France since 1789 (4)

French politics, society and international relations from the Great Revolution to the present.

HST 347 The French Revolution (4)

Survey of the revolutionary era in France beginning with the reign of Louis XVI (1774) and ending with the Battle of Waterloo (1815). Course will examine the origins, development and impact of the French Revolution with an emphasis on topics in political and cultural history.

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 17th century. Emphasis is on reading original materials.

HST 351 European Thought and Ideology, 1797 to Present (4)

A topical and thematic history of modern European thought and ideology: romanticism; liberalism and progress; science and technology; socialism; conservatism, pessimism, and the "revolt against reason"; *fin de siècle* culture; the effects of the Great War; fascism, genocide and totalitarianism; and religious and existentialist thought.

Prerequisite: HST 102 or equivalent or instructor's permission.

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 former Soviet Union from 1917 to the present: revolution and civil war, collectivization and industrialization, Stalinism, World War II, de-Stalinization, the former Soviet Union and the world Communist movement.

HST 361 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. *This course satisfies the university ethnic diversity requirement.* Identical with WS 361.

HST 362 History of African-American Women (4)

Covers the collective and individual experiences of African-American women from slavery to the present, including the quality of family life, economic roles, and their activities in women's, civil rights and political organizations. *This course satisfies the university ethnic diversity requirement.* Identical with WS 362.

HST 363 History of Southern South America (4)

The social, political and economic history of Argentina, Brazil and Chile in the 19th and 20th centuries; expansion and Indian warfare; slavery and Empire in Brazil; regionalism and nationalism; industrialization and urbanization; and international relations.

HST 364 Modern Tropical Asia (4)

Political, economic and social life in the Indian subcontinent and Southeast Asia since the 16th century, emphasizing Western colonial regimes and national liberation struggles.

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. *This course satisfies the university ethnic diversity requirement.*

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 20th century. *This course satisfies the university ethnic diversity requirement.*

HST 373 China's Last Dynasty: The Qing, 1644-1911 (4)

History of China's last great dynasty, from its founding by the Manchus in 1644, through its powerful early emperors, to its final collapse in 1911. Course includes discussion of traditional Chinese culture and institutions, territorial expansion, the Opium Wars and the 19th century revolutionary movement.

HST 374 China in Revolution, 1911-1949 (4)

China's 20th century revolutionary experience, focusing on the 1911, 1928 and 1949 revolutions. Topics include the struggle between China's two revolutionary parties, the Nationalists and Communists; social change under the Republic; World War II in Asia; and the civil war that brought the Chinese Communist Party to power in 1949.

HST 375 Women in Modern East Asia: Holding Up Half the Sky (4)

Women's history in East Asia, focusing on women's status in traditional Asian society, women as contributors to modernization in China, Japan and Korea, the struggle for legal equality in the 20th century, and contemporary women's lives.

HST 376 Contemporary China: The People's Republic from 1949 to the Present (4)

History of contemporary China from the 1949 revolution to the present, focusing on major social and political issues facing the Chinese Communist Party and attempted solutions. Topics include economic, political and social change and the 1980s era of reform.

HST 377 Empires of the Steppe (4)

History of the peoples of the Eurasian steppe and their interaction with the Chinese empire, focusing on trade and cultural exchange, as well as periods of conflict. Topics include the development of the Silk Road, indigenous steppe cultures and the Mongol conquests under Ghenghis Khan.

HST 381 History of India (4)

The evolution of politics, social structure and the economy of India, from early Hindu Kingdoms through Muslim conquests and British colonialism to the era of independence since 1947.

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 Kinship & Kingdoms in Historic Africa (4)

A social and political history of Africa from ancient to modern times (c. 3100 B.C.-1900 A.D.). Particular societies and states from different eras and regions provide foci for the study of specific ethnic and national histories.

HST 386 African History since 1900 (4)

A socio-cultural and political history of 20th-century Africa, focusing particularly on social change, nationalist leaders and constructive critics in such modern nations as Ghana, Senegal, Kenya and Tanzania.

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 388 Cultural History of Africa to 1900 (4)

A cultural history of Africa prior to 1900, with special reference to ancient Egypt, medieval Mali and different 19th century nations in tropical Africa. African systems of religious thought and artistic expression are analyzed, both specifically and generally, in historic context.

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 that 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.

HST 494 Special Topics in History (4)

In this capstone course students investigate topics in cross-cultural history in a seminar setting. Under the guidance of the faculty leader, substantive issues, research techniques and historiographical problems will be considered as the student prepares a research paper to be submitted at the conclusion of the course. Topics vary.

Prerequisite: Senior standing or permission of instructor; HST 300.

HST 495 Special Topics in European History (4)

In this capstone course students investigate topics in European history in a seminar setting. Under the guidance of the faculty leader, substantive issues, research techniques and historiographical problems will be considered as the student prepares a research paper to be submitted at the conclusion of the course. Topics vary.

Prerequisite: Senior standing or permission of instructor; HST 300.

HST 496 Special Topics in World Civilization (4)

In this capstone course students investigate topics in world civilizations in a seminar setting. Under the guidance of the faculty leader, substantive issues, research techniques and historiographical problems will be considered as the student prepares a research paper to be submitted at the conclusion of the course. Topics vary.

Prerequisite: Senior standing or permission of instructor; HST 300.

HST 497 Special Topics in American History (4)

In this capstone course students investigate topics in American history in a seminar setting. Under the guidance of the faculty leader, substantive issues, research techniques and historiographical problems will be considered as the student prepares a research paper to be submitted at the conclusion of the course. Topics vary.

Prerequisite: Senior standing or permission of instructor; HST 300.

CENTER FOR INTERNATIONAL PROGRAMS

430 WILSON HALL

(810) 370-2154

Fax: (810) 370-4208

Director: *Carlo Coppola (Modern Languages and Literatures)*

International Studies Executive Committee: *Bonnie F. Abiko (Art and History), Sheldon L. Appleton (Political Science), Linda Benson (History), Peter J. Bertocci (Sociology and Anthropology), Carlo Coppola (Modern Languages and Literatures), Vincent B. Khapoya (Political Science), Nathan F. Longan (Modern Languages and Literatures), Estela Mazzoli (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 majors in African and African-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. Minors in these areas are 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 majors in international studies, B.A. programs

The international studies majors consist of a minimum of 40 credits, of which 28 credits must be taken in the primary area (African and African-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. Language courses at the 100- and 200- level do not count toward the total number of credits for the major. 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 majors. For specific information, students should contact Center for International Programs (430 Wilson Hall, 370-2154).

Requirements for the liberal arts minors in international studies

Minors in international studies consist of a minimum of 20 credits in a single world 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 African-American studies, B.A. program

Coordinator: *Vincent B. Khapoya (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)*

Course requirements for the major in African and African-American studies are: IS 230, HST 292, IS 384 and 16 additional credits distributed as widely as possible from the following courses: AH 305, 352; ECN 342; ENG 342; HST 323, 362, 366, 385, 386, 387; MUS 335-336, 337; PS 203, 333; SOC 331; IS 300, 390 and 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, B.A. program

Coordinator: *Fall: Sheldon L. Appleton (Political Science); Winter: Linda Benson (History)*

Faculty: *Bonnie F. Abiko (Art and Art History), Sheldon L. Appleton (Political Science), Linda Benson (History), Janet Krompart (Kresge Library: East Asian librarian), Seigo Nakao (Modern Languages and Literatures)*

Course requirements for the major in Chinese studies are IS 210, 300, 381 and 16 additional credits distributed as widely as possible from the following courses: AH 304; AN 362; ECN 342; HST 373, 374, 375, 376, 377; PHL 350; PS 318; IS 390 and 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, 300, 381 and 16 additional credits distributed as widely as possible from the following courses: AH 301; ECN 342; HST 377; PHL 350; IS 361-362, 365-366, 390 and 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. See *Study Abroad Opportunities*.

South Asian studies, B.A. program

Coordinator: *Peter J. Bertocci (Sociology and Anthropology)*

Faculty: *Richard W. Brooks (Philosophy), Thomas W. Casstevens (Political Science), Carlo Coppola (Modern Languages and Literatures), Richard P. Tucker (History)*

Course requirements for the major in South Asian studies are IS 240, 300, 382 and 16 additional credits distributed as widely as possible from the following courses: AH 302, 320; AN 361; ECN 342; HST 377, 381; PHL 350, 352; PS 334; SOC 301; IS 270, 390 and 490. The complementary area of study may be Chinese studies, Japanese studies or Islamic civilization. The appropriate language is Hindi or Urdu.

Slavic studies, B.A. program

Coordinator: *Nathan Longan (Modern Languages and Literatures)*

Faculty: *James R. Ozinga (Political Science)*

Course requirements for the major in Slavic studies are IS 260, 300, 383 and 16 additional credits distributed as widely as possible from the following courses: ECN 342; HST 250, 254, 353, 354, 377; PS 318, 337, 377; IS 386, 390 and 490. The complementary area of study may be Chinese studies, Japanese studies or Islamic civilization. The appropriate language is Russian. The Center for International Programs periodically sponsors summer study tours to the former Soviet Union.

Latin American studies, B.A. program

Coordinator: *Estela Mazzoli (Modern Languages and Literatures)*

Faculty: *James W. Dow (Sociology and Anthropology), Mary C. Karasch (History), Patricia Montenegro (Modern Languages and Literatures)*

Course requirements for the major in Latin American studies are IS 250, 300, 385 and 16 additional credits distributed as widely as possible from the following courses: AH 307; AN 370, 371, 372; ECN 342; HST 261, 262, 363, 366, 367; PS 335; SPN 488, 489; IS 390 and 490. The complementary area of study is African studies. The appropriate language is Spanish. The Center for International Programs periodically sponsors summer study programs in Mexico.

Study Abroad Opportunities

The Center for International Programs offers the following study abroad opportunities:

Student Exchange Program, Nanzan University, Nagoya, Japan. Two-semester program. One year of Japanese language required. Courses taught in English. Housing: with Japanese family. Coordinator: Bonnie Abiko, Department of Art and Art History, 321 Wilson Hall, (810) 370-3382 or messages at 370-2154.

Japan Center for Michigan Universities, Hikone, Shiga, Japan. Two-semester program. No language proficiency required. Courses taught in English. Housing: Center's dormitory. Coordinator: Bonnie Abiko, Department of Art and Art History, 321 Wilson Hall, Oakland University, (810) 370-3382.

Vienna Study Abroad Program. One-semester and two-semester program. No language proficiency required. Courses taught in English. Housing: with Viennese family. Coordinator: Carlo Coppola, Center for International Programs, 430 Wilson Hall, (810) 370-2154.

Macerata, Italy, Study Abroad Program. One-semester and two-semester program. No language proficiency required. Courses taught in English. Housing: with Italian family. Coordinator: Carlo Coppola, Center for International Programs, 430 Wilson Hall, (810) 370-2154.

Querétaro, Mexico, Study Abroad Program. One-semester and two-semester program. Language proficiency required. Courses taught in English. Housing: with Mexican family. Coordinator: Carlo Coppola, Center for International Programs, 430 Wilson Hall, (810) 370-2154.

Student Exchange Program, University of Orléans, Orléans, France. Two-semester program. Three years of college-level French required. Courses taught in French. Housing: prior to start of class and holidays with a French family; otherwise, in university dormitory. Coordinator: David Jaymes, Department of Modern Languages and Literatures, 425 Wilson Hall, (810) 370-2080 or messages at 370-2060. Offered in cooperation with the Department of Modern Languages and Literatures.

British Studies at Corpus Christi College, Oxford University, Oxford, England. Two three-week summer sessions. No language proficiency required. Courses taught in English. Housing: college's private rooms. Coordinator: Margaret Pigott, Department of Rhetoric, Communication and Journalism, 322 Wilson Hall, (810) 370-4131 or messages at 370-2154.

For specifics about any of these programs (minimum GPA requirement, if any, course offerings, costs, faculty and other eligibility requirements), the student should contact the individual program coordinator. For additional information about other study abroad opportunities, see the Department of Modern Languages and Literatures.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

IS 210 Introduction to China (4)

An interdisciplinary study of the peoples of China and their traditional and modern civilizations. *This course satisfies the university general education requirement in international studies.* Identical with GEO 210.

IS 220 Introduction to Japan (4)

An interdisciplinary study of the peoples of Japan and their traditional and modern civilizations. *This course satisfies the university general education requirement in international studies.* Identical with GEO 220.

IS 230 Introduction to Africa (4)

An interdisciplinary study of the peoples of Africa and their traditional and modern civilizations. *This course satisfies the university general education requirement in international studies.* Identical with GEO 230.

IS 240 Introduction to India (4)

An interdisciplinary study of the peoples of India and their traditional and modern civilizations. *This course 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. *This course satisfies the university general education requirement in international studies.* Identical with GEO 250.

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. *This course 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. *This course satisfies the university general education requirement in international studies.* Identical with GEO 270.

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, and includes Japanese language study and additional appropriate courses with English as the language of instruction.

IS 363-64 France Exchange Program (12-18)

Course work is taken at the Université d'Orleans in France and 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 (12-18)

Course work is taken at the Japan Center for Michigan Universities, Shiga, Japan, and 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 African-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

306 WILSON HALL

(810) 370-2175

Fax: (810) 370-4208

Chairperson: *Peter J. Binkert*

Professors emeriti: *Donald C. Hildum, William Schwab*

Professors: *Peter J. Binkert (Linguistics, Classics)*

Associate professors: *Daniel H. Fullmer (Linguistics, English), Michael B. Smith*

Assistant professor: *Richard G. Campbell*

Associated faculty: *Professors Carlo Coppola (Modern Languages and Literatures, Linguistics), Alice S. Horning (Rhetoric, Communication 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, B.A. program

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

1. A minimum of 32 credits in linguistics courses to include LIN 301, 380, 403 and 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.
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, B.A. program

To earn the minor, students must complete:

1. A minimum of 24 credits in linguistics courses to include LIN 301, 380, 403 and 404. Only 8 of these credits may be in ALS courses.
2. A minimum of 20 credits in CSE courses as follows: 8 credits from CSE 125, and 130 or 131; 12 credits from CSE 220, CSE courses numbered 232 through 245, CSE 340 and 345. See requirements for the minor in computing in the School of Engineering and Computer Science section of this catalog.
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 minor in computer science, the courses include the six required LIN and ALS courses, the five 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 and 380
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, 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 and 380
 - b. For a major in: anthropology, ALS 375; communication, LIN 401; English, LIN 303; philosophy, LIN 407; psychology, ALS 335; and sociology, ALS 376
2. For requirements in the modified majors, consult the appropriate department.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

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; and 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, and 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 370.

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; and 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. *This course satisfies the university ethnic diversity requirement.* Identical with AN 374 and COM 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; and standard languages, social dialects, pidgins and creoles. *This course satisfies the university ethnic diversity requirement.* 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.

Prerequisite: LIN 301.

ALS 428 The Teaching of English as a Second Language (4)

Approaches, methods and techniques of teaching pronunciation, grammar and vocabulary. The use of language tests and laboratory techniques.

Prerequisite: LIN 301.

ALS 429 Practicum (2 or 4)

Supervised experience in some area of applied linguistics, such as working with non-native speakers of English, tutoring, or other appropriate field work or internship, to be approved by the Department of Linguistics.

Prerequisite: LIN 301.

LINGUISTICS**LIN 177 Introduction to Language Science (4)**

A basic introduction to the modern study of language as rule-governed behavior. Among the topics considered are the linguistic principles pertaining to sounds, words, sentences and meanings in cultural subsystems that enable people to communicate. Examples and analysis of English and other languages.

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 COM 207. *This course 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. *This course satisfies the university general education requirements in language and in mathematics, logic and computer science.* Identical with CSE 215.

Prerequisite: Sophomore standing; high school algebra recommended.

LIN 300 Topics in Linguistics (4)

Topics and problems selected by the instructor.

Prerequisite: Permission of the Department of Linguistics.

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. *This course satisfies the university ethnic diversity requirement.*

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 131.

LIN 380 Proseminar in Linguistics (4)

Overview of current major issues and research in theoretical and applied linguistics.
Prerequisite: LIN 301 and one other ALS or LIN course numbered 300 or above.

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.
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 and permission of the Department of Linguistics.

LIN 490 Independent Study (2 or 4)

Special research projects in linguistics.
Prerequisite: Permission of the Department of Linguistics.

DEPARTMENT OF MATHEMATICAL SCIENCES

334 O'DOWD HALL

(810) 370-3430

Fax: (810) 370-4184

Chairperson: *James H. McKay*

Professors emeriti: *Harvey J. Arnold, John W. Dettman, George F. Feeman, William C. Hoffman, G. Philip Johnson, Donald G. Malm*

Professors: *Kevin T. Andrews, Louis R. Bragg, Baruch Cahlon, Charles C. Cheng, J. Curtis Chipman, Jerrold W. Grossman, James H. McKay, Louis J. Nachman, Subbaiah Perla, Darrell Schmidt, Irwin E. Schochetman, Meir Shillor, Sze-kai Tsui, J. Barry Turett, Stuart S. Wang, Stephen J. Wright*

Associate professors: *David J. Downing, Jon Froemke, Ravinda Khattree, Devadatta Kulkarni, Robert H. Kushler, Peter Shi, Winson Taam*

Assistant professors: *Theophilus Ogunyemi, Guohua (James) Pan, Ananda Sen*

Adjunct professors: *Joseph Assenzo, Seth Bonder, Gary C. McDonald, Edward F. Moylan*

Chief adviser: *Darrell Schmidt*

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 mathematics or applied statistics, Master of Science degree in industrial applied mathematics, Master of Science degree in applied statistics and Master of Arts degree 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.

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 through a departmental placement test.

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 118, 121, 122, 154; 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 118.
- R: The student has demonstrated competence through MTH 012* and is ready for MTH 118, 121, 141; MTE 210 or STA 225.
- C: The student has demonstrated competence through MTH 141 and is ready for MTH 118, 121, 122, 154; MTE 210 or STA 225.

Formal course competency credit is not available in MTH 011*, 012* or 141.

*See information concerning these courses below.

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 core of eight courses with a grade of at least 2.0 in each: MTH 154, 155, 254, 256, 302, 351, 475 and STA 226.
2. Complete three additional 3- or 4-credit courses in the mathematical sciences chosen from APM 257, 263, and courses labeled MTH, APM, MOR or STA at the 300-400 level, with the exception of APM 407 and MTH 497, with a grade of at least 2.0 in each. Majors in the secondary education program must include MTH 361 and 414 among these three courses. Well-prepared students may substitute 500-level courses with the approval of the departmental adviser.
3. Complete CSE 131 with a grade of at least 2.0.
4. Complete two additional 3- or 4-credit courses, as approved by the departmental adviser, in science, engineering or computer science, with an average grade of at least 2.00. Courses used to satisfy this requirement may also be used to satisfy university general education and college distribution requirements or secondary teaching minors.

Requirements for the major in mathematics, B.S. program

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

1. Complete a core of nine courses with a grade of at least 2.0 in each: MTH 154, 155, 254, 256, 302, 351, 453, 475 and STA 226.
2. Complete four additional 3- or 4-credit courses in the mathematical sciences chosen from APM 257, 263, and courses labeled MTH, APM, MOR or STA at the 300-400 level, with the exception of APM 407 and MTH 497, with a grade of at least 2.0 in each. Majors in the secondary education program must include MTH 361 and 414 among these four courses. Well-prepared students may substitute 500-level courses with the approval of the departmental adviser.
3. Complete CSE 131 and 231 with a grade of at least 2.0 in each.
4. Complete three additional 3- or 4-credit courses, as approved by the departmental adviser, in an area related to mathematics, with an average grade of at least 2.00. The area chosen will normally be in science, engineering, computer science, economics or

statistics. Courses used to satisfy this requirement may also be used to satisfy university general education and college distribution requirements. Students in the secondary education program will be deemed to have satisfied this requirement with their secondary teaching minor, regardless of its subject area.

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, 332, 433, 434; MTH 351; MOR 342, 346.
3. Complete CSE 131 and either CSE 232 or another programming language lab approved by the departmental adviser..
4. Complete ENG 380, 381 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.

Secondary Teacher Education Program (STEP): Mathematics

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Students in this program must complete the requirements for a B.A. or B.S. degree in mathematics and include MTH 361 and 414 among the mathematics electives.

A program in STEP must include a 20-24 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300/301, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Mathematical Sciences and the School of Education and Human Services advising office (472 O'Dowd Hall, 370-4182).

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 chosen from MTH 155, 254, 256; APM 257, 263; STA 226 or any 300-400 level courses labeled MTH, APM, MOR or STA, except APM 407 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 the minor in applied mathematics and the concentration in 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 chosen from MTH 154, 155, 254, 256; APM 257, 263; STA 226 or any 300-400 level courses labeled MTH, APM, MOR or STA, except APM 407 and MTH 497. A recommended program consists of MTH 154, 155, 254; STA 226 and APM 263. 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: CSE 131, 171, 231, 261 or 378, and any CSE course numbered 300 or above.

Students seeking this 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.

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 mathematical sciences 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. Grades earned in these courses will be included in the student's grade point average.

*Note that when a student exercises the repeat option and takes MTH 011 or 012 to replace a grade previously earned in MTH 102, 103, 111 or 112, the grade earned in MTH 011 or 012 will replace the former grade and will remove credits that would have counted toward minimal graduation requirements.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

MATHEMATICS

MTH 011 Elementary Algebra (4)

Order of operations, algebra of exponents, radicals, variable expressions, polynomial arithmetic, factoring, algebraic fractions, linear equations and inequalities in one variable; applications and problem solving. *See note above. *This course cannot be used to satisfy minimal graduation requirements in any program.*

MTH 012 Intermediate Algebra (4)

Complex numbers, quadratic equations, nonlinear inequalities, analytic geometry (points and lines in the coordinate plane, distance, circles, parabolas, ellipses and hyperbolas), 2 by 2 and 3 by 3 systems of linear equations, introduction to functions and their graphs, theory of equations, logarithms; applications and problem solving. *See note above. *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. Developed to support the transition of students into the university mathematical sciences curriculum. Graded S/U.

Prerequisite: Placement in Academic Opportunity Program.

MTH 118 Mathematical Sciences in the Modern World (4)

Designed for students without an extensive mathematics background who wish to explore the ways people use mathematical sciences to solve problems that arise in modern society. Satisfies the university general education requirement in mathematics, logic and computer science. Formerly MTH 185.

Prerequisite: MTH 011 or placement.

MTH 121 Linear Programming, Elementary Functions (4)

Systems of equations, matrices, and 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 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 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 302 Introduction to Advanced Mathematical Thinking (4)

The propositional and predicate calculus, set theory, methods of mathematical proof, inductive and recursive thinking, relations and functions, infinity. Emphasis is on rigorous proofs of mathematical statements. Offered every fall.

Prerequisite: MTH 256 or permission of department.

MTH 351 Advanced Calculus I (4)

The topology of the real number line and of n -dimensional Euclidean space, continuity and uniform continuity, derivatives, the Riemann integral, sequences and series, uniform convergence. Replaces APM 331. Offered every fall.

Prerequisite: MTH 254 and 302 or permission of department.

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. Offered every fall.

Prerequisite: MTH 256 or permission of department.

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 instructor.

MTH 414 History of Mathematics (4)

Mathematics from ancient to modern times, its growth, development and place in human culture. Offered every winter.

Prerequisite: MTH 351 or permission of instructor.

MTH 415 Foundations of Mathematics: Mathematical Logic and Set Theory (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 302.

MTH 453 Advanced Calculus II (4)

Improper integrals, derivatives and integrals in n -dimensional Euclidean space, implicit and inverse function theorems, differential geometry and vector calculus, and Fourier series. Offered every winter.

Prerequisite: MTH 351.

MTH 461 General Topology (4)

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

Prerequisite: MTH 302.

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 453.

MTH 475 Abstract Algebra (4)

Groups, subgroups, cosets, and homomorphisms; rings and ideals; integral domains; and fields and field extensions. Applications. Offered every winter.

Prerequisite: MTH 302 or permission of department.

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. Graded S/U.

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 332 Applied Matrix Theory (4)

Eigenvalues, eigenvectors and their applications, matrix calculus, linear differential equations, Jordan canonical forms, and quadratic forms. Time will also be spent on various computational techniques.

Prerequisite: MTH 256.

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. Offered fall of even-numbered years.

Prerequisite: MTH 256, APM 257 and 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, and nonlinear systems. Credit will not be granted for both APM 434 and CSE 418. Offered winter of odd-numbered years.

Prerequisite: MTH 254, 256 and 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 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. Offered every fall and winter.

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.

Prerequisite: 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 Introduction to Statistical Concepts and Reasoning (4)**

Statistical ideas and thinking relevant to public policy, quality improvement, and physical and social sciences. Data collection and presentation; association; normal distribution; probability and simulation; and confidence intervals, p-values, and hypothesis testing. 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. Satisfies the university general education requirement in mathematics, logic and computer science.

Corequisite: MTH 122 or 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. Offered every winter.

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, and response surface methodology. Offered every fall.

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 322 or 323 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 427 or permission of instructor; APM 257 recommended.

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.

Corequisite: STA 427 or 322 or 323 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. Offered as fall-winter sequence every year. Prerequisite: MTH 254, 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 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 Euclidean spaces. Enrollment is limited to elementary education majors. Offered every winter. Prerequisite: MTE 210.

MTE 410 Elementary School Mathematics and the Computer (4)

An introduction to creative uses of computers in teaching mathematics in the elementary school, including program design, machine architecture, and the BASIC and LOGO computing languages. Enrollment is limited to elementary majors. Prerequisite: MTE 211, STA 225 and IST 396.

DEPARTMENT OF MODERN LANGUAGES AND LITERATURES

418 WILSON HALL

(810)370-2060

Chairperson: *Renate Gerulaitis*

Distinguished professor emeritus: *Jack R. Moeller (German)*

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), Kathryn McArdle-Pigott (Spanish), Munibur Rahman (Hindi-Urdu), Robert E. Simmons (German), Amitendranath Tagore (Chinese), Carmen Urla (Spanish)*

Professors: *Carlo Coppola (Hindi-Urdu), Renate Gerulaitis (German)*

Associate professors: *Nicole Buffard-O'Shea (French), Christopher Clason (German), David Jaymes (French), Barbara Mabee (German), Patricia G. Montenegro (Spanish), Ronald F. Rapin (Spanish)*

Assistant professors: *Frances Meuser Blincow (Spanish), Stacey L. Hahn (French), Nathan Longan (Russian), Estela Moreno-Mazzoli (Spanish), Seigo Nakao (Japanese), Sally M. Silk (French)*

Special Lecturers: *Dikka Berven (French), Adine Golemba (Spanish)*

Chief adviser: *David Jaymes*

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. The department houses a new interactive video, audio and computer language technology facility, in which students have access to a broad variety of tutorials, exercises and multimedia activities supporting their classroom learning experiences.

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 to a new language. 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 Department of Orientation. Students who enter Oakland University with high school work in French, German, Russian 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 of language or literature at the 300 level with a minimum grade point average of 2.80.

Requirements for liberal arts majors in a modern language and literature, B.A. program

The department offers three liberal arts degrees in language and literature: French, German and Spanish. The requirement for the degree in French or Spanish is a minimum of 32 credits at the 300 and 400 levels in language, culture and literature. In German, the requirement is 36 credits. In German, courses numbered 301, 316, 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 (in French, FRH 351 or 451) 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, B.A. program

The requirement is a minimum of 18 credits at the 300 and 400 levels in each of two languages. In French, Russian and Spanish, courses numbered 314, 316, 318, 355, 408 and 455 are required. German must include courses numbered 301, 316, 318, 355, 408 and 455.

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. Most traditional graduate programs in language and literature will require students in this major to fulfill additional prerequisites in literature.

Requirements for the modified liberal arts major in German with a concentration in German studies, B.A. program

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 301, 316, 318, 340, 355, 370, 408 and 440. The courses required in related fields are AH 345, HST 343, LIT 182, MUS 100 or 320, PS 373. In addition, students must choose two corequisites from among the following: AH 334, 365; HST 327, 341 and MUS 327.

Secondary Teacher Education Program (STEP): Modern Languages and Literatures

The Secondary Teacher Education Program (STEP) at Oakland University is an extended program of study leading to certification. Students in this program must complete the requirements for a B.A. degree in the department. The department offers the following liberal arts majors with specialization in secondary teaching: French, German, German Studies,

Russian and Spanish.

A program in STEP must include a 20-24 hour secondary teaching minor and a sequence of undergraduate course work in education to include SED 300/301, FE 345, RDG 538 and SED 427. Extended study including SED 428, 455; SE 501 and FE 602 is also required. Further details on program and admission requirements and procedures can be found in the School of Education and Human Services portion of the catalog and by consulting advisers in the Department of Modern Languages and Literatures and the School of Education and Human Services advising office (472 O'Dowd Hall, 370-4182).

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

B.A. program

Modified majors are available in French, German, Russian and Spanish with majors or minors in economics, general business, international management, engineering, computer science or computing. (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, Russian or Spanish is a minimum of 24 credits at the 300-400 level. 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 Latin American language and civilization, B.A. program

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.

Requirements for the liberal arts major in Russian language and civilization, B.A. program

The requirements are 16 credits in Russian language and civilization at the 300-400 level and 20 credits in Slavic studies courses, including IS 490. For further information, see the Slavic studies program.

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

A student planning a minor in the department must apply in the department office, 418 Wilson Hall, after consultation with an adviser. Minors are available in French, German, Russian 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 French, German, Russian or Spanish language. The requirement is a minimum of 20 credits beyond 114-115. French, Russian and Spanish must include courses numbered 314, 316 and 318, and 4 credits from courses numbered 355, 408, 455 and 457 (in French, FRH 357). German requires courses numbered 301, 316 and 318, and 4 credits from courses numbered 355, 408, 455 or 457.

Requirements for the liberal arts minor in German studies

Students must complete a minimum of 22 credits in German beyond first year. The courses required are GRM 301, 316, 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, Russian and Spanish and 301, 316, 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 requirements are a minimum of 36 credits with at least 20 credits at the 300-400 level. 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 portion of this catalog.

Requirements for an elementary teaching minor in a modern language

Requirements are a minimum of 24 credits with at least 8 credits at the 300-400 level. 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 portion of this catalog.

Study abroad

Students should consult departmental advisers for information on a variety of foreign study opportunities. Students wishing to transfer credits from study abroad programs must arrange for that *prior* to their departure.

Students majoring in German wishing to participate in the Junior Year in Freiburg or Munchen should see Professor Gerulaitis; students majoring in Spanish wishing to participate in the Junior Year or summer session in Valencia should see Professor Rapin; students majoring in French may participate in the exchange program with the University of Orléans in France. For further information on that program, and on other study abroad opportunities, see the Center for International Programs portion of the catalog.

Course Offerings

The department offers selected courses from this catalog as warranted by student needs and availability of faculty. Specific offerings for each term may be found in the *Schedule of Classes*.

CHINESE LANGUAGE

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 or 115 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.

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 or 115 satisfies the university general education requirement in language.

FRH 214 Second Year French (4)

Continuation of the work started in FRH 114-115.

Prerequisite: One year of college French or equivalent.

FRH 215 Intermediate French Grammar (4)

Review of the essentials of French grammar. The course focuses on reading and composition. Conducted in French.

Prerequisite: FRH 214.

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 312 French Phonetics and Listening Comprehension (2)

Group and individual practice in the sound system of French, with special attention to listening comprehension problems. Both written and laboratory work required. Offered fall semester.

Prerequisite: FRH 215.

FRH 314 Advanced French Grammar (4)

Review of French grammar through a variety of approaches such as reading, translation and composition. Conducted in French.

Prerequisite: FRH 215.

FRH 316 Intermediate French Conversation (2)

Practice in speaking at intermediate level. Format may include oral presentations and phonetics. 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 215.

FRH 351 French Civilization (4)

An overview of contemporary life, education and socio-economic conditions in France. Conducted in French. Offered in alternate years.

Prerequisite: FRH 215.

FRH 355 Translation into English (4)

Translation from French to English of materials that may range from commercial and technical to literary. Offered winter semester.

Prerequisite: FRH 314.

FRH 357 French Business Communication (4)

Introduction to basic business communication skills, including essential reading, writing and speaking activities.

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 314.

FRH 370 Introduction to French Literature (4)

An introduction to textual analysis based on selected readings. Conducted in French. Offered fall semester.

Prerequisite: FRH 215.

FRH 380 Survey of French Literature (4)

A survey 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 French Conversation (2)

Practice in speaking at an advanced level. Format may include oral presentations and readings.

Prerequisite: FRH 314 and 316.

FRH 416 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 314, 370 and 380.

FRH 417 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 314, 370 and 380.

FRH 419 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 314, 370 and 380.

FRH 420 The Twentieth Century (4)

A study of contemporary works from various genres demonstrating different approaches.

Prerequisite: FRH 314, 370 and 380.

FRH 451 Modern French Identity (4)

An examination of the origins and development of the twentieth century French identity. Readings address cultural issues from the period just prior to the French Revolution to the present day. Conducted in French. Offered in alternate years. This course does not replace a literature requirement.

Prerequisite: FRH 370 and 380.

FRH 455 Translation into French (4)

Translation from English into French of a wide variety of materials that may range from commercial and technical to literary. Offered fall semester in alternate years.

Prerequisite: FRH 314, 316, 318 and 355.

FRH 480 Undergraduate Seminar (2 or 4)

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

Prerequisite: FRH 314, 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, 6 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 or 115 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 301 Intermediate German (4)

A continuation of the work of GRM 214-215, with greater emphasis on the development of cultural and literary skills. Offered fall semester.

Prerequisite: GRM 215 or equivalent.

GRM 316 Intermediate German Conversation (2)

Provides a transition between the carefully structured activities of other intermediate courses and free manipulation of the spoken language. Must be taken concurrently with GRM 318. Offered fall semester.

Prerequisite: GRM 301.

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. Must be taken concurrently with GRM 316. Offered fall semester.

Prerequisite: GRM 301.

GRM 340 German Culture I (4)

German culture of the twentieth century, with emphasis on the period since World War II and particularly the present. Conducted in German. Offered fall semester in alternate years.

Prerequisite: GRM 301 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 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 301.

GRM 370 Great Works in German Literature (4)

A historical survey. Conducted in German.

Prerequisite: GRM 301 or equivalent.

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.

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 German Conversation (2 or 4)

Practice in speaking at the advanced level. Format may include oral presentations and readings.

Prerequisite: GRM 301 or 316 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 418 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 419 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 420 The Twentieth Century (4)

A study of works and movements in various genres from Naturalism to the present by authors such as Schnitzler, Toller, Brecht, Mann, Boll, Wolf, Celan and Kirsch. Conducted in German.

Prerequisite: GRM 370 and 380.

GRM 440 German Culture II (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 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, 6 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 or 115 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 or 115 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 or 115 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 316 Intermediate Japanese Conversation (2)

Practice in speaking at intermediate level. Format may include oral presentations and phonetics. Must be taken concurrently with JPN 318.

Prerequisite: JPN 215.

JPN 318 Japanese Composition (2)

Practice in written composition. Techniques of textual analysis and exposition are introduced. Must be taken concurrently with JPN 316.

Prerequisite: JPN 215.

JPN 355 Translation: Japanese (4)

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

Prerequisite: JPN 316 and 318.

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 or 115 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 Russian Conversation (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 420 The Twentieth Century (4)

A study of works in all genres by Russian authors of the period, including Bunin, Zamiatin 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 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, 6 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 or 115 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 (4)

Review of Spanish grammar and syntax through translation, reading and directed conversation. Offered fall semester.

Prerequisite: SPN 215.

SPN 316 Intermediate Spanish Conversation (2)

Provides a transition between the carefully structured drills and free manipulation of the spoken language. Offered winter semester. Must be taken with SPN 318.

Prerequisite: SPN 314.

SPN 318 Spanish Composition (2)

Development of written composition skills including description, narration and exposition. Offered winter semester. Must be taken 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 into English (4)**
Introduction to translation utilizing a variety of materials (commercial, technical and literary). 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 study of literary genres and movements based on selected masterpieces of Spanish literature. Conducted in Spanish. Offered fall semester.
Prerequisite: SPN 215.
- SPN 380 Introduction to Spanish-American Literature (4)**
Further study of literary genres and movements based on selected masterpieces of Spanish-American 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 Spanish Conversation (2)**
Development of conversational skills at an advanced level, with emphasis on complete structures and appropriate style and vocabulary.
Prerequisite: SPN 316.
- SPN 416 Spanish Literature — Fifteenth and Sixteenth Centuries (4)**
Following a brief introduction to medieval origins, a study of works in various genres by leading Spanish authors of the Renaissance period. Conducted in Spanish.
Prerequisite: SPN 370 and 380.
- SPN 417 Spanish Literature — Seventeenth Century (4)**
A study of works in various genres by leading Spanish authors of the Baroque period. Conducted in Spanish.
Prerequisite: SPN 370 and 380.
- SPN 419 Spanish Literature — Eighteenth and Nineteenth Centuries (4)**
A study of works in various genres by leading Spanish authors beginning with Neoclassicism and including Naturalism. Conducted in Spanish.
Prerequisite: SPN 370 and 380.
- SPN 420 Spanish Literature — Twentieth Century (4)**
A study of works in various genres by leading modern and contemporary Spanish authors from the Generation of '98 to the present. Conducted in Spanish.
Prerequisite: SPN 370 and 380.
- SPN 455 Translation: English into Spanish (4)**
Further development of translation skills utilizing a variety of materials (commercial, technical and literary). Offered fall semester.
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 488 Spanish-American Literature before 1888 (4)

A study of works in various genres by leading Spanish-American authors from the Colonial Period to Modernism. Conducted in Spanish.
Prerequisite: SPN 370 and 380.

SPN 489 Spanish-American Literature after 1888 (4)

A study of works in various genres by leading Spanish-American authors of modern and contemporary literature. 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, 6 or 8)

Directed annotated translation from Spanish into English of a major work or works 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 requirement 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. All works read in English translation. May not be used to satisfy requirements in the Department of Modern Languages and Literatures. May be repeated for credit with readings from a different foreign literature in English translation.

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 at Oakland University. May be repeated for credit in a different language each time. Satisfies the university general education requirement in language.
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; or 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.